

# COMPANY PROFILE

## TECH LAB

### TECHNICAL LABORATORIES

(INDEPENDENT GEOTECHNICAL AND MATERIAL TESTING LABORATORY)

**ISO 17025 : 2005 Accredited**



C.R. No. 8252

P.O.Box 5652 - DOHA, QATAR

Phone: 44603251 – 44981132 - 44510270,

Fax: 44600952

Located at INDUSTRIAL AREA, STREET No.: 11

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

# TECH LAB

## TECHNICAL LABORATORIES INDEX

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2. LOCATION MAP
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# **1. INTRODUCTION**

**TECH LAB [TECHNICAL LABORATORIES]** is a member of HAWAR GROUP.

**TECH LAB** is an independent Material Testing Laboratory duly certified by Laboratory & Standardization Affairs, Ministry of Environment, State of Qatar, the approval authority. **TECH LAB** is ISO 17025: 2005 accredited Testing Laboratory. **TECH LAB** is also in the list of approved third party laboratories by ASHGHAL.

**TECH LAB** is fully equipped with qualified technical persons, equipments & instruments and infrastructure to cater the demands of our dear clients in the field of:

- 1] Material Testing – Soil & Aggregate, Concrete, Asphalt, Steel
- 2] Analytical Services – Potable Water, Environmental Testing, Soil & Aggregate
- 3] Geotechnical Engineering Services
- 4] Dewatering Works – Design & Execution
- 5] Ground Water Monitoring System including design & execution, Well Drilling, Well Construction, Pumping Test, Water Quality Analysis, Pump Recommendations & Supply & Installation,
- 6] Contract Drilling
  - Soakaway Borehole Drilling
  - Earthing Borehole Drilling
  - Cavity Probe Drilling
  - Anchor Drilling
- 7] Geophysical Surveying [MASW, ERT, GRP]
- 8] Pressure Grouting
- 9] Slope Stability Analysis & Slope Stability Works
- 10] Concrete Inspection – Concrete Coring, Schmidt Hammer Test, Ultrasonic Pulse Velocity Test, Cover Meter Survey

Further, with our technical capabilities & infrastructure we assure you that we can provide the best qualitative and on-time services at a competitive rates.

Our major clientele are local ministries, Qatar Petroleum [QP], ASHGHAL [Public Works Authority], Kahramaa [QGWE], Drainage Affairs, Ras Gas, Qatar Gas, Aspire Zone, Sports City, Local Construction Companies, all the major public and private sectors including reputed local & foreign Construction & Consultancy Companies like, Bilfinger Berger, TEKFEN, J & P, Gama Qatar, Sky-Oryx, Leighton Qatar, STFA Marine Construction, Keppel Seghers, Baytur, Fernas Construction, Hyundai Engineering Construction Co. Ltd., Parsons, Keo International, Becthel Internationals, Cowi, Hyder, Dodsall Eng. & Const, China Harbour Engineering Co. Midmac-Six Construct JV, Dogus-Onur JV, etc.

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## **2.LOCATION MAP**

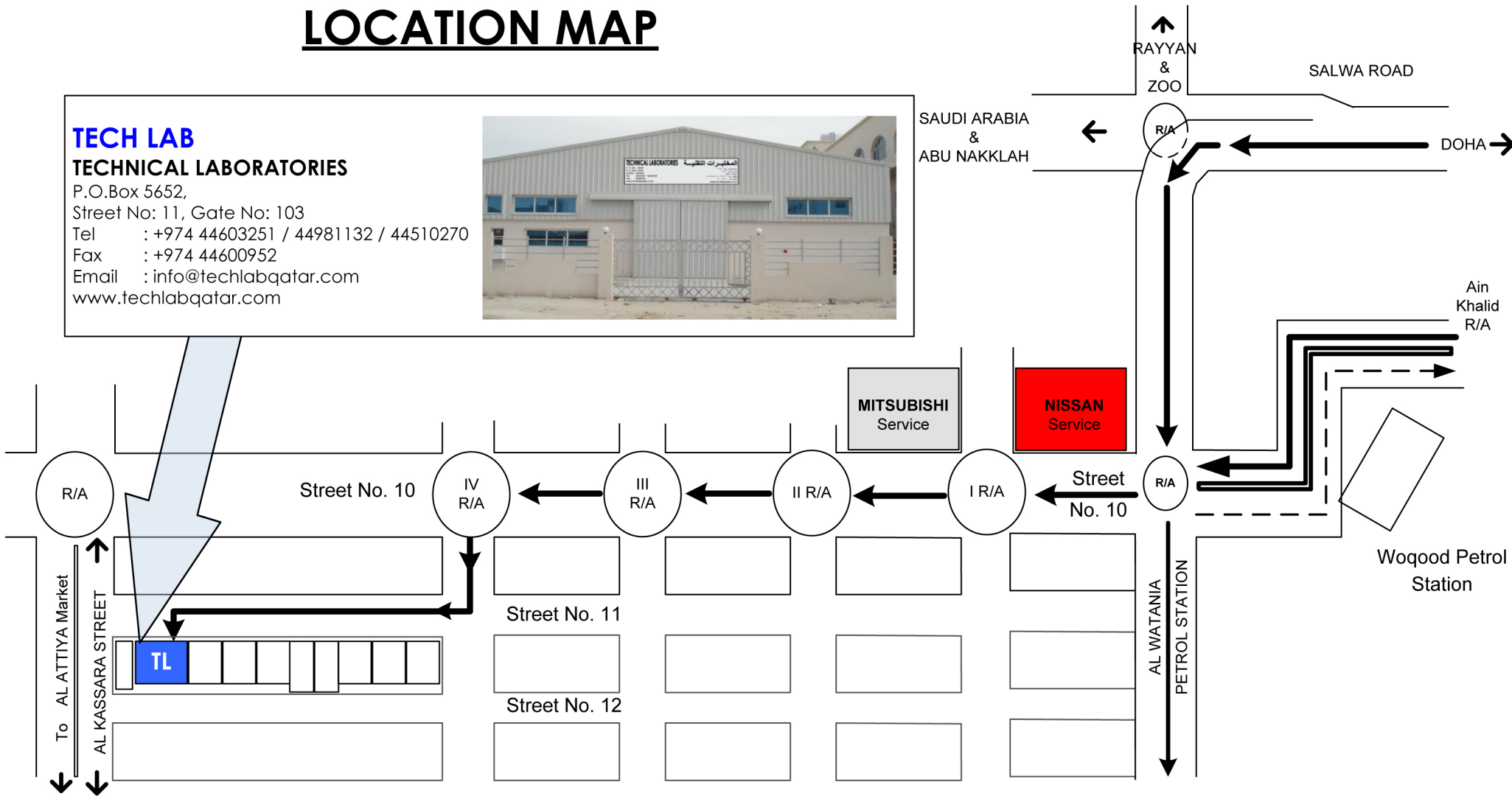
# TECHNICAL LABORATORIES NEW PREMISES

## LOCATION MAP

### TECH LAB

#### TECHNICAL LABORATORIES

P.O.Box 5652,  
 Street No: 11, Gate No: 103  
 Tel : +974 44603251 / 44981132 / 44510270  
 Fax : +974 44600952  
 Email : info@techlabqatar.com  
 www.techlabqatar.com



### **3.APPROVALS & ACCREDITATION**





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 388

Issued : 9-7-2017

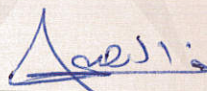
Validity: 8-1-2018


#### Category: A (Restricted)

Company	: Technical Laboratories P.O.Box 5652 Doha-Qatar Tel:44603251 Fax: 44603334
Manager	: Mr. Ramachandra G. Hegde
QA/QC Engineer	: Mss Enriquita Vivero
Senior Technician	: Mr. Dorjey N Kazi
Lab Location	: Industrial Area , No. 11 ,, Doha
CR No.	: 8252
Scope/ Range	:Physical, Mechanical and chemical testing of Soil (Soil for construction), Aggregate ,Concrete, Cementitious Materials (Cement, GGBS, Microsilica), Masonry Blocks, Paving Units, tiles, Kerbs, Flags, Building stone and marbles, Rock Testing of asphaltic Materials (Road & Pavement tests), Water analysis for Concrete and road construction work including Sampling, Geotechnical Tests and Non-Destructive Tests and steel Testing .
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.

- 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 GEOTECHNICAL SOIL INVESTIGATION  
FIRM

Certificate No : SI 101

Issued : 12-3-2017

Validity: 11-3-2018

Company Technical Laboratories.  
P.O.Box: 5652  
Doha-Qatar  
Tel: 44603251 Fax:44600952


Manager Mr.Ramachandra G. Hegde  
Geotech Engineer Mr.TurgayCeylan

LabLocation Street No. 11, Salwa Industrial Area, Doha

CR No. 8252

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.  
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Authorized by:   
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CEO, QGOS



رؤيتنا

حماية بيئتنا وتنميتها واستدامتها مسؤولية الجميع

CONFORMITY CERTIFICATE



وزارة الاقتصاد والتجارة  
Ministry of Economy and Commerce

Registration and Commercial  
Licenses Department

إدارة التسجيل  
والتراخيص التجارية

مستخرج بعض بيانات السجل التجاري

تاريخ الطباعة: 2017/07/11



رقم التسجيل الضريبي: 8252  
السمة التجارية:  
تاريخ انتهاء السجل: 26/07/2018  
راس المال: 200000  
جنسية المنشأة: قطر

رقم السجل التجاري: 8252/8  
الأسم التجاري:  
تاريخ انشاء السجل: 29/07/1996  
الشكل القانوني: مؤسسة فردية  
حالة السجل: نشط  
عدد الفروع: 0

معلومات الاتصال

أرقام الاتصال: +974

صندوق البريد:

المدراء (المخولون بالتوقيع)

الصفة (الملاحية)	الجنسية	رقم السجل	رقم الإثبات	الأسم
صلاحيات كاملة ومطلقة - مدير	مصر		24181800203	عبدالمقصود محمد عبدالعال سليم
صلاحيات كاملة ومطلقة - مدير	قطر		26463400237	عماد درويش عبدالله الدرويش

الأنشطة التجارية

اسم النشاط	الرقم	اسم النشاط	الرقم
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Page 1 of 2

رقم السجل : 8/8252



تشهد غرفة تجارة و صناعة قطر بان المنشأة المذكورة اعلاه سجلت لدينا

Qatar Chamber certifies that the above mentioned establishment has been registered



وزارة الاقتصاد والتجارة  
Ministry of Economy and Commerce

Registration and Commercial  
Licenses Department

إدارة التسجيل  
والتراخيص التجارية

مستخرج بعض بيانات السجل التجاري

التجارة في معدات الفحص	544450
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خدمات فحص التربة	742260
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Page 2 of 2

رقم السجل : 8/8252



غرفة قطر  
QATAR CHAMBER

تشهد غرفة تجارة و صناعة قطر بان المنشأة المذكورة اعلاه سجلت لديها

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

## رخصة تجارية



رقم الرخصة: 87898  
الأسم التجاري: المختبرات التقنية  
نوع المنشأة التجارية: مؤسسة فردية  
السمة التجارية:  
تاريخ اصدار الرخصة: 2014/07/20  
تاريخ انتهاء الرخصة: 2018/09/02  
رقم السجل التجاري: 8252/22

### بيانات المدير المسؤول :

اسم المدير المسؤول: هيدجي راماجاندرا جاناباتي  
رقم الإثبات: 26235610193

### بيانات الموقع :

الهند  
نموذج ختم المنشأة التجارية

جنسية المدير المسؤول:

تصنيف الموقع:

نوع الموقع:

المنطقة:

الشارع:

رقم الشارع :

### الأنشطة التجارية :

عقار رقم: 76

رقم الدور/ الوحدة:

اسم مالك العقار: مجموعة الخليج التكافلي

نوع الرخصة :

وصف العنوان : بلدية الدوحة/ النجادة

تجاري

مختبر

5 النجادة

حمد الكبير

119



إسم النشاط

الرقم

إسم النشاط

الرقم

التجارة في اجهزة فحص التربة (بواسطة الأشعة)

1000157



مدير السجل والتراخيص



نوع القطاع : خاص

نوع النشاط :

تاريخ الانتهاء : 2018-07-26

بطاقة المنشأة

رقم المنشأة : 10 0798 08

Org. Name: TECHNICAL

اسم المنشأة : المختبرات التقنيه

المفوضين بالتوقيع

م	الرقم الشخصي	الاسم	انتهاء الصلاحية	التوقيع
1	26463400237	عماد درويش عبدالله الدرويش	2018-07-26	
2	24181800203	عبدالمقصود محمد عبدالعال سليم	2018-07-26	
*****				

تاريخ الطباعة : 2017-07-26

ملاحظات :

ملاحظة : هذه البطاقة صالحة فقط بوجود ختم وتوقيع الإدارة عليها

التعليمات :

ختم المنشأة



الإستعمال الرسمي :



مدير إدارة شؤون المواطنين

١- يحق للإدارة العامة للجوازات إلغاء هذه البطاقة بدون إذن مسبق.

٢- تصبح هذه البطاقة ملغاة إذا وجد بها أي كشط أو شطب.

٣- إشعار الإدارة العامة للجوازات عند تغيير أو إلغاء التوقيع والختم وتعديل المسمى التجاري.

٤- في حالة البيع والشراء تسلم للمالك.

٥- في حالة فقدان البطاقة يبلغ أقرب مركز للشرطة



# Registration Certificate

This is to certify that

**TECH LAB**

P.O. Box 5652, Street No. 11, Gate No. 103, Industrial Area, Doha, Qatar

has been assessed and certified by SSI Management Pvt. Ltd.  
as meeting the requirements of

**ISO 14001 : 2004**  
**Environment Management System**  
For the following activities:

The Provision of Independent Material Testing and Analysis, Chemical Testing, Geotechnical Engineering Services, Geophysical Surveying, Ground Water Well Drilling & Monitoring, Pressure Grouting, Contract Drilling Services and Dewatering Works

Date of Certification: 12th November 2014  
1st Surveillance Due: 11th November 2015

2nd Surveillance Due: 11th November 2016  
Recertification Due : 11th November 2017

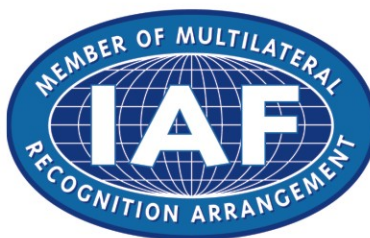
Certificate No:- 1114111205

To Verify this certificate please visit at [www.ssicert.com](http://www.ssicert.com)

**JAS-ANZ**



**M5340812IN**



Managing Director  
SSI Management Pvt. Ltd.  
Accredited by JAS-ANZ

Validity of this Certificate is subject to successful Annual Surveillance audits to be done. This Certificate of Registration remains the Property of SSI Management Pvt. Ltd. and shall be returned immediately upon request. URL of the Joint Accreditation System of Australia & New Zealand is [www.jas-anz.org/register](http://www.jas-anz.org/register)

SSI Management Pvt. Ltd., 502, Fifth Floor, DDA Tower-II, District Center, Janakpuri, New Delhi-110058, India

Email:- [info@ssicert.com](mailto:info@ssicert.com) website [www.ssicert.com](http://www.ssicert.com)





# Registration Certificate

This is to certify that  
**TECH LAB**

P.O. Box 5652, Street No. 11, Gate No. 103, Industrial Area, Doha, Qatar

has been assessed and certified by SSI Management Pvt. Ltd.  
as meeting the requirements of

**OHSAS 18001 : 2007**  
**Occupational Health & Management System**  
For the following activities:

The Provision of Independent Material Testing and Analysis, Chemical Testing,  
Geotechnical Engineering Services, Geophysical Surveying, Ground Water Well Drilling &  
Monitoring, Pressure Grouting, Contract Drilling Services and Dewatering Works

Date of Certification: 29th November 2014  
1st Surveillance Due: 28th November 2015

2nd Surveillance Due: 28th November 2016  
Recertification Due : 28th November 2017

Certificate No:- 1114112904

**To Verify this certificate please visit at [www.ssicert.com](http://www.ssicert.com)**



Managing Director  
SSI Management Pvt. Ltd.

Validity of this Certificate is subject to successful Annual Surveillance audits to be done. This Certificate of Registration remains the Property of SSI Management Pvt. Ltd. and shall be returned immediately upon request.

SSI Management Pvt. Ltd., 502, Fifth Floor, DDA Tower-II, District Center, Janakpuri, New Delhi-110058, India

Email:- [info@ssicert.com](mailto:info@ssicert.com) website [www.ssicert.com](http://www.ssicert.com)



By Royal Charter

# Certificate of BSI Membership

This is to certify that

**Technicla Laboratories (Qatar)**

Membership Number

**47439955**

is a BSI Subscribing Member

Start date: **1 April 2017**      End date: **31 March 2018**

For and on behalf of BSI:

Dr Scott Steedman CBE FREng, Director of Standards, BSI

The British Standards Institution is incorporated by Royal Charter and the rules relating to Subscribing Members are contained in its Bye-laws. This certificate remains the property of the Institution and is only valid for the period ending on the 'End date' specified above.

BSI Group, 389 Chiswick High Road, London, W4 4AL, UK. Tel: +44 345 086 9001

[bsimembers.com](http://bsimembers.com)

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هيئة الأشغال العامة  
Public Works Authority



15/6/2014 11:25 AM



2014/0011214/5

Date: 15/06/2014

Technical Laboratories  
P.O. Box: 5652 - Doha,  
Fax: 44600952

**Subject: Dewatering Approved Contractors List**

It has never been more important for Ashghal and its construction partners to effectively manage the groundwater dewatering process, as the development of Qatar continues to grow. Building on the established processes and standards, Ashghal is challenging its construction partners to reach a new level in dewatering site management.

As such, I am very pleased to inform you that you have been successful in passing the technical evaluation process and being included as an Ashghal approved dewatering contractor. You will be included in our approvals list as a contractor currently deemed capable of delivering a dewatering service to Ashghal's customers.

We will communicate our expectations and what this means for all parties in due course. As part of our communication process and the initial launch of this important partnership, we will be sending you an invitation to a launch conference which is planned to take place in June. You will have the opportunity to network with fellow successful contractors at this event.

In the meantime, please feel free to contact Mr Craig Alexander Low at [clow@ashghal.gov.qa](mailto:clow@ashghal.gov.qa) with any enquiries.

Thank you once again for your involvement as we seek to enable development in a safe and environmentally aware manner.

Regards,

Ahmed Mohamed Sharif  
Drainage Network Operations & Maintenance  
Manager

Cc:

ص.ب: 22188 ، الدوحة - قطر ، تليفون : +974 4495 0000 ، فاكس : +974 4495 0900  
P.O. Box: 22188 Doha, Qatar - Tel. : +974 4495 0000 - Fax : +974 4495 0900



INTERNATIONAL  
ACCREDITATION  
SERVICE®

# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## **TECH LAB**

INDUSTRIAL AREA  
STREET NO. 11, GATE NO. 103  
DOHA  
QATAR

Testing Laboratory TL-387

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2005, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation maintained on the IAS website ([www.iasonline.org](http://www.iasonline.org)).

*This certificate is valid up to January 1, 2019.*



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



*C.P. Ramani*

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



INTERNATIONAL  
ACCREDITATION  
SERVICE®



## SCOPE OF ACCREDITATION

IAS Accreditation Number	TL-387
Company Name	Tech Lab
Address	Industrial Area Street No. 11, Gate No. 103 Doha, Qatar
Contact Name	Mr. Ramachandra G. Hegde – Manager Miss Enriquita Vivero – QA/QC Engineer Mr. Dorjey N. Kazi – Senior Technician
Telephone	+974 44 603251
Effective Date of Scope	March 21, 2017
Accreditation Standard	ISO/IEC 17025:2005

NO.	PWA TEST NO.	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
1	1.1 2.2	Soil / Aggregate	ASTM C702 - 11	Reducing Samples of Aggregate to Testing Size	Tech Lab	1. Riffle Boxes - TIC 52/ 52D/ 52E/ 52F / 52H / 52I 2. Scoop 3. Containers	Dorjey Kazi Arun Kumar Bhaskar Bogati Krishna Paudel Sandeep Prasad Rabi Mahato Mahadav Poudel Younest Rai Atul Gurung Karma Lepcha Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah Mohammed Nowfer Zulfigar Ali Pramod Lama
2	1.2	Soil	ASTM D2216 - 10	Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass: Determination of moisture content	Tech Lab	1. Drying Oven - TL-317, TL-026 2. Balance - TL 212, TL-298 3. Containers 4. Knives 5. Riffle Boxes - TIC - 52E / 52F/ 52H/ 52I	Dorjey Kazi Arun Kumar Bhaskar Bogati Krishna Paudel Sandeep Prasad Rabi Mahato Mahadav Poudel Younest Rai Atul Gurung Karma Lepcha Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah

# SCOPE OF ACCREDITATION

NO.	PWA TEST NO.	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
3	1.3	Soil	ASTM D6913 - 04 (2009)e1	Standard Test Methods for Particle- Size Distribution (Gradation) of Soils Using Sieve Analysis	Tech Lab	1. Test Sieves- SL-38 to SL-61 2. Trays & Scoop 3. Riffle box- TIC-52E / 52F/ 52H/ 52I 4.Oven TL-026, TL-317 5. Balance-TL-010, TL-298, TL-212	Dorjey Kazi Arun Kumar Bhaskar Bogati Krishna Paudel Sandeep Prasad Rabi Mahato Mahadav Poudel Younest Rai Atul Gurung Karma Lepcha Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah Mohammed Nowfer
4	1.4	Soil	ASTM D 1140 - 14	Standard Test Methods for Determining the Amount of Material Finer than 75- $\mu$ m (No. 200) Sieve in Soils by Washing	Tech Lab	1. Test Sieves - SL-59, SL-61a 2. Trays & Scoop 3. Riffle box- TIC-52E / 52F/ 52H/ 52I 4. Oven - TL-026, TL-317 5. Balance -TL-010, TL-298, TL-212	Dorjey Kazi Arun Kumar Bhaskar Bogati Krishna Paudel Sandeep Prasad Rabi Mahato Mahadav Poudel Younest Rai Atul Gurung Karma Lepcha Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah Mohammed Nowfer
5	1.5	Soil	ASTM D4318 - 10e1	Determination of liquid limit [Casagrande]	Tech Lab	1. Drying Oven - TL-317, TL-026 2. Balance - TL-010, TL-298 3. Test sieves - SL-38 to SL-61 4. Casagrande apparatus - TL-321 5. Metal Cups 6. Riffle Box - TIC-52E / 52F/ 52H/ 52I 7. Flat Grooving Tool - TL-321	Dorjey Kazi Arun Kumar Bhaskar Bogati Krishna Paudel Sandeep Prasad Rabi Mahato Mahadav Poudel Younest Rai Atul Gurung Karma Lepcha Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
6	1.6 1.7	Soil	ASTM D1557 - 12e1 ASTM D4718 - 15	Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft <sup>3</sup> (2,700 kN-m/m <sup>3</sup> )): Determination of dry density/moisture content relationship	Tech Lab	1. Test sieves - SL-38 to SL-61 2. Balance - TL-298, TL-212 3. Drying Oven - TL-317, TL-026 4. Mould - 8A, 8C 5. Automatic proctor rammer - TL-221 6. Manual proctor rammer - TL-142 7. Containers 8. Straightedge 9. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I 10. Containers	Dorjey Kazi Arun Kumar Bhaskar Bogati Krishna Paudel Sandeep Prasad Rabi Mahato Mahadav Poudel Younest Rai Atul Gurung Karma Lepcha Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah Mohammed Nowfer

# SCOPE OF ACCREDITATION

NO.	PWA TEST NO.	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
7	1.8	Soil	ASTM D1556/D1556M-15e1	Standard Test Method for In-Place Density & Unit Weight of Soil By Sand Cone Method	Tech Lab	1. Sand Cone App. - TIC-56 2. Calibrating Container. 3. Balance - TL-298, TL-212	Dorjey Kazi Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Atul Gurung Karma Lepcha Rabi Mahato Noor Wahab Hashar Amanullah Mohammed Nowfer
8	1.9	Soil	ASTM D6938-15	Standard Test Methods for -In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	Field Test	1. Nuclear Gauge machine - TL-063 to TL-068 2. Warning Barriers	Bhaskar Bogati Sandeep Prasad Atul Gurung Rabi Mahato Naina
9	1.11	Soil	ASTM D1883 - 16	Determination of California bearing ratio (CBR)	Tech Lab	1. Drying Oven - TL-317, TL-026 2. Balance - TL-298, TL-212 3. Test Sieves - SL-38 to SL-61 4. CBR Mould - A1, A2, A4, A11 - A13 5. CBR Machine - TL-145 6. Dial Gauges - TL-034, 258, 015, 099, 259 7. Mixing tools 8. Straight Edge 9. Containers	Dorjey Kazi Arun Kumar Bhaskar Bogati Krishna Paudel Sandeep Prasad Rabi Mahato Mahadav Poudel Younest Rai Atul Gurung Karma Lepcha Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
10	1.13	Soil	ASTM D2419 - 14	Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate: Sand equivalent value	Tech Lab	1. Sand equivalent Shaker - TL 205 2. Drying Oven - TL-317, TL-026 3. Riffle - TIC-52E / 52F/ 52H/ 52I 4. Stopwatch - TL-252	Dorjey Kazi Arun Kumar Bhaskar Bogati Krishna Paudel Sandeep Prasad Rabi Mahato Mahadav Poudel Younest Rai Atul Gurung Karma Lepcha Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
11	1.14	Soil	BS 1377 Part-2: Clause 3.2:1990	Soils for engineering purposes Part 2: Determination of moisture content	Tech Lab	1. Drying Oven - TL-317, TL-026 2. Balance - TL-298, TL-212 3. Containers 4. Knives 5. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I	Dorjey Kazi Arun Kumar Bhaskar Bogati Krishna Paudel Sandeep Prasad Rabi Mahato Mahadav Poudel Younest Rai Atul Gurung Karma Lepcha Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah

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12	1.15 1.16	Soil	BS 1377 Part-2: Clause 4:1990	Soils for engineering purposes Part 2: Classification Tests. Determination of liquid limit ( Cone penetrometer & Casagrande)	Tech Lab	1. Drying Oven - TL-317, TL-026 2. Balance - TL-010 3. Cone penetrometer - TL-102 4. Test sieves - SL-28 5. Casagrande apparatus - TL-159 6. Metal Cups 7. Riffle Box - TIC-52E / 52F/ 52H/ 52I 8. Glass Plate 9. Grooving Tool - TL-159	Dorjey Kazi Arun Kumar Bhaskar Bogati Krishna Paudel Sandeep Prasad Rabi Mahato Mahadav Poudel Younest Rai Atul Gurung Karma Lepcha Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
13	1.17	Soil	BS 1377 Part-2: Clause 5:1990	Soils for engineering purposes Part 2: Classification Tests. Determination of plastic limit & plasticity index	Tech Lab	1. Drying Oven - TL-317, TL-026 2. Balance - TL-010 3. Test Sieves - SL-28 4. Glass Plate 5. Riffle Box - TIC-52E / 52F/ 52H/ 52I	Dorjey Kazi Arun Kumar Bhaskar Bogati Krishna Paudel Sandeep Prasad Rabi Mahato Mahadav Poudel Younest Rai Atul Gurung Karma Lepcha Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
14	1.19	Soil	BS 1377 Part-2: Clauses 9.2 and 9.3:1990	Soils for engineering purposes Part 2: Classification Tests. Particle size distribution (Dry & Wet)	Tech Lab	1. Test sieves - SL-01 to SL-37 2. Balance - TL-298, TL-212 3. Drying Oven - TL-317, TL-026 4. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I	Dorjey Kazi Arun Kumar Bhaskar Bogati Krishna Paudel Sandeep Prasad Rabi Mahato Mahadav Poudel Younest Rai Atul Gurung Karma Lepcha Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah Mohammed Nowfer
15	1.20	Soil	BS 1377 Part -4: Clause 3:1990	Soils for engineering purposes Part 4: Compaction - related Tests. Determination of dry density/moisture content relationship	Tech Lab	1. Drying Oven - TL-317, TL-026 2. Balance - TL-298, TL-212, TL-313 3. Test Sieves - SL-04, SL-08 4. Automatic proctor rammer - TL-222 5. Manual proctor rammer - TL-142 6. Moulds - 7A & 7 B 7. Mixing tools 8. Straight Edge 9. Containers 10. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I	Dorjey Kazi Arun Kumar Bhaskar Bogati Krishna Paudel Sandeep Prasad Rabi Mahato Mahadav Poudel Younest Rai Atul Gurung Karma Lepcha Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah Mohammed Nowfer



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16	1.21	Soil	BS 1377 Part-4: Clause 7:1990	Soils for engineering purposes Part 4: Compaction - related Tests. Determination of California bearing ratio (CBR)	Tech Lab	1. Drying Oven - TL-317, TL-026 2. Balance - TL-298, TL-212 3. Test Sieves - SL-04, SL-08 4. CBR Mould - B1 to B11 5. CBR Machine - TL-145 6. Dial Gauges - TL-034, 258, 015, 099, 259 7. Mixing tools 8. Straight Edge 9. Containers 10. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I	Dorjey Kazi Arun Kumar Bhaskar Bogati Krishna Paudel Sandeep Prasad Rabi Mahato Mahadav Poudel Younest Rai Atul Gurung Karma Lepcha Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
17	1.22 1.23	Soil	BS 1377 Part-9: Clauses 2.1 & 2.2:1990	Soils for engineering purposes Part 5: In-situ Tests. In- situ density test -Sand replacement method - Small and Large pouring cylinder	Field Test	1. Drying Oven - TL-317, TL-026 2. Balance - TL-298, TL-212, TL-313 3. Sand Replacement Apparatus - TIC-63 4. Containers 5. Reference Sand	Dorjey Kazi Arun Kumar Bhaskar Bogati Krishna Paudel Sandeep Prasad Rabi Mahato Mahadav Poudel Younest Rai Atul Gurung Karma Lepcha Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah Mohammed Nowfer
18	1.24	Soil	BS 1377 Part-9 Clause 2.5:1990	Soils for engineering purposes Part 5: In-situ Tests. In- situ density test - Nuclear gauge method	Field Test	1. Nuclear Gauge machine - TL-063 to TL-068 2. Warning Barriers	Bhaskar Bogati Sandeep Prasad Atul Gurung Rabi Mahato Naina
19	1.25	Chemical Analysis of Soil	BS 1377 Part 3: Clause 3:1990	Soils for engineering purposes Part 3: Chemical and electro-chemical Tests. Determination of organic matter contents	Tech Lab	1. Drying Oven - TL-104 2. Balance - TL-009 3. Burettes - TIC -43/1 to TIC-43-5 4. Conical Flasks - TIC-48-1 to 46-2 5. 10 ml Pipette - TIC-44-1 to 44-3 6. Measuring cylinder - TIC -50/1	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane

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20	1.26 1.27	Chemical Analysis of Soil	BS 1377 Part 3 : Clauses 7.2 & 7.3 :1990	Soils for engineering purposes Part 3: Chemical and electro-chemical Tests. Determination of chloride content of soil (Acid & Water soluble)	Tech Lab	1. Drying Oven - TL-104 2. Balance - TL-009 3. Test Sieves - TIC-01 4. Burettes - TIC -43/1 to TIC-43-5 5. Conical Flasks - TIC-48-1 to 46-2 6. 25 ml Pipette - TIC-45-1 to 45-2 7. Measuring Cylinder - TIC -50/1 8. Filter Paper - 41	Dahy Hamza Zulfiger Andrea Prabhu Amiel Jane
21	1.28 1.29	Chemical Analysis of Soil	BS 1377 Part 3 : Clause 5 :1990	Soils for engineering purposes Part 3: Chemical and electro-chemical Tests. Determination of sulphate content of soil (Acid & Water soluble)	Tech Lab	1. Drying Oven - TL-104 2. Balance - TL-009 3. Test Sieves - TIC-01 4. Mechanical Shaker - TL-053 5. Measuring cylinder - TIC -50/1 6. 25 ml Pipette - TIC-45-1 to 45-2 9. Furnace - TL-191 10. Hot plate 11. Crucibles 12. Funnel 13. Filter paper - 40 & 42	Dahy Hamza Zulfiger Andrea Prabhu Amiel Jane
22	-	Soil	ASTM D5334 - 14	Standard Test Method for Determination of Thermal Conductivity of Soil and Soft Rock by Thermal Needle Probe Procedure: Thermal conductivity test	Tech Lab	1. Thermal conductivity testing device	Krishna Poudel Sandeep Prasad Ramsharan Subedi Bhaskar Bogati Dorjey Kazi
23	-	Soil	BS EN 933-9:2009+A1:2013	Test for geometrical properties of aggregate Part 9: Assessment of fines: Methylene Blue Test	Tech Lab	1. Test sieves - SL-01 - SL-37 2. Balance - TL-009 3. Filter Paper 4. Burettes TIC -43/1 to TIC-43/5 5. 25 ml Pipette - TIC-45-1 to 45-2 6. Impeller Agitator - TL-306	Dahy Hamza Zulfiger Ali Andrea Parbhu Amiel Jane

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24	-	Soil	BS 1377 Part-1:2016	General requirements and Sample preparation	Tech Lab	1. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I 2. Scoop 3. Containers	Dorjey Kazi Arun Kumar Bhaskar Bogati Krishna Paudel Sandeep Prasad Rabi Mahato Mahadav Poudel Younest Rai Atul Gurung Karma Lepcha Ramsharan Subedi Roy Palacios Roy Palacios Noor Wahab Hashar Amanullah
25	-	Soil	BS 1377 Part-2: Clause 8:1990	Soils for engineering purposes Part 2: Classification Tests. Determination of particle density	Tech Lab	1. Drying Oven - TL-317, TL-026 2. Balance - TL-298, TL-212, TL-010 3. Test Sieves - SL-01 to SL-37 4. Glass Jar - TIC-14	Dorjey Kazi Arun Kumar Bhaskar Bogati Krishna Paudel Sandeep Prasad Rabi Mahato Mahadav Poudel Younest Rai Atul Gurung Karma Lepcha Ramsharan Subedi Roy Palacios Roy Palacios Noor Wahab Hashar Amanullah
26	-	Soil	BS 1377 Part 2 Sec 9.5:1990	Methods of test for Soils for civil engineering purposes — Part 2: Classification tests 9.5 Sedimentation by the hydrometer method	Tech Lab	1. Hydrometer - TIC-101 2. Mechanical Shaker - TL-053 3. Balance - TL-010, TL-212, TL-298 4. Oven - TL-317, TL-026 5. Stop Watch - TL-252	Ramsharan Subedi Bhaskar Bogati Vanessa Martesio
27	-	Chemical Analysis of Soil	BS 1377 Part 3: Clause 6:1990	Soils for engineering purposes Part 3: Chemical and electro-chemical Tests. Determination of carbonate content	Tech Lab	1. Drying Oven - TL-104 2. Balance - TL-009 3. Test Sieves - SL-01 to SL-37 4. Burettes - TIC -43/1 to TIC-43/5 5. Tall form beaker 6. 25 ml Pipette - TIC-45-1 to 45-2 7. 1Lt Volumetric Flasks - TIC-49-1 to 49-2 8. Glass plate 9. Rod	Dahy Hamza Zulfiger Andrea Prabhu Amiel Jane

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28	-	Chemical Analysis of Soil	BS 1377 Part 3 : Clause 8 :1990	Soils for engineering purposes Part 3: Chemical and electro-chemical Tests. Determination of total water soluble salts	Tech Lab	1. Drying Oven - TL-104 2. Balance - TL-009 3. Balance - TL-277 4. 1Lt Volumetric Flasks - TIC-49-1 to 49-2 5. Measuring cylinder - TIC -50/1 6. Desiccators 7. Low form beaker 8. Filter paper - 40 9. Funnel	Dahy Hamza Zulfiger Andrea Prabhu Amiel Jane
29	-	Chemical Analysis of Soil	BS 1377 Part 3 : Clause 9:1990	Soils for engineering purposes Part 3: Chemical and electro-chemical Tests. Determination of pH Value	Tech Lab	1. pH meter - CHEM-7 2. Standard buffer solution 3. Beakers, Stirring Rods	Dahy Hamza Zulfiger Andrea Prabhu Amiel Jane
30	2.1	Aggregates	ASTM D75 – 14 CI 5.3.3 - Sampling From Stockpiles	Sampling of aggregates	Tech Lab	1. Scoop 2. Shovel 3. Sample Bags 4. Sample Tags / Markers	Dorjey Kazi Arun Kumar Bhaskar Bogati Krishna Paudel Sandeep Prasad Rabi Mahato Mahadav Poudel Younest Rai Atul Gurung Karma Lepcha Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah Mohammed Nowfer
31	2.3	Aggregate	ASTM C 136/C136-14	Sieve Analysis of Fine and Coarse Aggregates	Tech Lab	1. Test sieves - SL-38 to SL-61 2. Balance - TL-298, TL-212, TL-313 3. Drying Oven - TL-317, TL-026 4. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I	Dorjey Kazi Arun Kumar Bhaskar Bogati Krishna Paudel Sandeep Prasad Rabi Mahato Mahadav Poudel Younest Rai Atul Gurung Karma Lepcha Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah Mohammed Nowfer
32	2.4	Aggregate	ASTM C117-13	Materials Finer than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	Tech Lab	1. Balance - TL-298, TL-212, TL-010 2. Sieves - SL-38 to SL-61 3. Drying Oven - TL-317, TL-026 4. Riffle Box - TIC-52E / 52F/ 52H/ 52I	Dorjey Kazi Arun Kumar Bhaskar Bogati Krishna Paudel Sandeep Prasad Rabi Mahato Mahadav Poudel Younest Rai Atul Gurung Karma Lepcha Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah Mohammed Nowfer

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33	2.5	Aggregate	ASTM C128-15	Relative Density (Specific Gravity) and Absorption of Fine Aggregate	Tech Lab	1. Test sieves - SL-38 to SL-61 2. Balance - TL-298, TL-212, TL-010 3. Drying Oven - TL-317, TL-026 4. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I 5. Pycnometer - TIC-14	Dorjey Kazi Arun Kumar Bhaskar Bogati Krishna Paudel Sandeep Prasad Rabi Mahato Mahadav Poudel Younest Rai Atul Gurung Karma Lepcha Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
34	2.6	Aggregate	ASTM C127-15	Relative Density (Specific Gravity) and Absorption of Coarse Aggregate	Tech Lab	1. Test sieves - SL-38 to SL-61 2. Balance - TL-298, TL-212 3. Drying Oven - TL-317, TL-026 4. Thermometer - TL-082 5. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I 6. Containers 7. Wire Basket	Dorjey Kazi Arun Kumar Bhaskar Bogati Krishna Paudel Sandeep Prasad Rabi Mahato Mahadav Poudel Younest Rai Atul Gurung Karma Lepcha Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
35	2.7	Aggregate	ASTM C142/C142 M - 10	Clay Lumps and Friable Particles in Aggregates	Tech Lab	1. Test sieves - SL-38 to SL-61 2. Balance - TL-298, TL-212 3. Drying Oven - TL-317, TL-026 4. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I	Dorjey Kazi Arun Kumar Bhaskar Bogati Krishna Paudel Sandeep Prasad Rabi Mahato Mahadav Poudel Younest Rai Atul Gurung Karma Lepcha Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
36	2.8	Aggregate	ASTM C123/C123M-14	Lightweight Particles in Aggregates	Tech Lab	1. Balance - TL-298, TL-212, TL-010 2. Sieves - SL-38 to SL-61 3. Drying Oven - TL-317, TL-026 4. Containers	Dorjey Kazi Arun Kumar Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
37	.9	Chemical Analysis of Aggregate	ASTM C40/C40M-16	Organic Impurities in Fine Aggregates for Concrete	Tech Lab	1. Glass bottles 2. Reagents	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane

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38	2.10	Aggregate	ASTM D4791 - 10	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	Tech Lab	1. Test Sieves - SL-38 to SL-61 2. Proportional Caliper - TL-080 3. Balance - TL-298, TL-212 4. Riffle Box - TIC-52E / 52F/ 52H/ 52I	Dorjey Kazi Arun Kumar Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
39	2.11	Aggregate	ASTM C131/C131M-14	Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	Tech Lab	1. Test sieves - SL-38 to SL-61 2. Balance - TL-298, TL-212 3. Drying Oven - TL-317, TL-026 4. Los angeles machine & Charge - TIC-42 5. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I	Dorjey Kazi Arun Kumar Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
40	2.12	Aggregate	ASTM C535 - 16	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	Tech Lab	1. Test sieves - SL-38 to SL-61 2. Balance - TL-298, TL-212 3. Drying Oven - TL-317, TL-026 4. Los angeles machine & Charge - TIC-42 5. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I	Dorjey Kazi Arun Kumar Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
41	2.13	Aggregate	ASTM C88 - 13	Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	Tech Lab	1. Test sieves - SL-38 to SL-61 2. Balance - TL-298, TL-212 3. Drying Oven - TL-317, TL-026 4. Containers 5. Magnesium Sulphate 7. Stop Watch - TL-252 8. Wire Baskets	Dorjey Kazi Arun Kumar Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
42	2.14	Aggregate	ASTM D5821 - 13	Determining the Percentage of Fractured Particles in Coarse Aggregate	Tech Lab	1. Test sieves - SL-38 to SL-61 2. Balance - TL-298, TL-212 3. Drying Oven - TL-317, TL-026 4. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I	Dorjey Kazi Arun Kumar Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah

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43	2.15	Aggregate	ASTM D546 - 10	Standard Test Method for Sieve Analysis of Mineral Filler for Bituminous Paving Mixtures	Tech Lab	1. Test Sieves - SL-51, 53, 55, 59 2. Trays & Scoop 3. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I 4. Oven - TL-317, TL-026 5. Balance - TL-010	Dorjey Kazi Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
44	.17	Aggregate	BS 812-102:1989	Testing aggregates Methods for sampling	Tech Lab	1. Hand Shovel 2. Shovel 3. Scoops 4. Sample Bags 5. Sample Tags / Markers	Dorjey Kazi Arun Kumar Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
45	2.18	Aggregate	BS 812-109 (Clause 6) :1990	Methods for determination of moisture content Cl. 6 - Definitive, oven drying method	Tech Lab	1. Balance - TL-298, TL-212 2. Drying Oven - TL-317, TL-026 3. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I	Dorjey Kazi Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
6	2.19	Aggregate	BS EN 1097 Part 6 : 2013	Determination of particle density and water absorption of Aggregate	Tech Lab	1. Test sieves - SL-01 To SL-37 2. Balance -TL 298, TL-212 3. Drying Oven - TL-317 , TL-026 4. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I 5. Pycnometer - TIC-14 6. Wire Baskets	Dorjey Kazi Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
47	2.20	Aggregate	BS 812: Part 2 (Clauses 5.3) 1995	Methods for determination of density Determination of particle densities and water absorption Method for aggregates larger than 10 mm	Tech Lab	1. Test sieves - SL-01 to SL-37 2. Balance - TL 298, TL-212 3. Drying Oven - TL-317 , TL-026 4. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I 5. Thermometer - TL-229 6. Wire Basket	Dorjey Kazi Arun Kumar Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah

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48	2.21	Aggregate	BS 812: Part 2 (Clauses 5.4) 1995	Methods for determination of density Determination of particle densities and water absorption Method for aggregates between 40mm and 5mm	Tech Lab	1. Test sieves - SL-01 to SL-37 2. Balance - TL 298, TL-212 3. Drying Oven - TL-317 , TL-026 4. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I 5. Glass vessel	Dorjey Kazi Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
49	2.22	Aggregate	BS 812: Part 2 (Clauses 5.5) 1995	Methods for determination of density Determination of particle densities and water absorption Method for aggregates 10mm nominal size and smaller	Tech Lab	1. Test sieves - SL-01 to SL-37 2. Balance - TL 298, TL-212 3. Drying Oven - TL-317 , TL-026 4. Pycnometer - TIC-14 5. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I 6. Metal mould and tamper	Dorjey Kazi Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
50	2.23 2.26 2.27	Aggregate	BS EN 933-1 :2012	Tests for geometrical properties of aggregates Determination of particle size distribution. Sieving method	Tech Lab	1. Test sieves - SL-01 to SL-37 2. Balance - TL 298, TL-212 3. Drying Oven - TL-317 , TL-026 4. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I	Dorjey Kazi Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah Mohammed Nowfer
51	2.24 2.25	Aggregate	BS 812-103.1 - 1985	Testing aggregates Method for determination of particle size distribution Sieve tests	Tech Lab	1. Test sieves - SL-01 to SL-37 2. Balance - TL 298, TL-212 3. Drying Oven - TL-317 , TL-026 4. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I	Dorjey Kazi Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah Mohammed Nowfer
52	2.28	Aggregate	BS EN 933-7;1998	Tests for geometrical properties of aggregates Determination of Shell Content of Aggregate	Tech Lab	1. Test sieves - SL-01 to SL-37 2. Balance - TL 298, TL-212 3. Drying Oven - TL-317 , TL-026 4. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I	Dorjey Kazi Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah



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53	2.29	Aggregate	BS EN 933-3:2012	Tests for geometrical properties of aggregates Part3: Determination of particle shape Flakiness index	Tech Lab	1. Test sieves - SL-01 to SL-37 2. Balance - TL 298, TL-212 3. Drying Oven - TL-317 , TL-026 4. Bar Sieves - F1 to F13 5. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I	Dorjey Kazi Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
54	2.30 2.32	Aggregate	BS 812-105 Sections 105.1 and 105.2 - 1990	Methods for Determination of Particle Shape Section 105.1- Flakiness Index Section 105.2- Elongation Index of Coarse Aggregate	Tech Lab	1. Test sieves - SL-01 to SL-37 2. Balance - TL-298, TL-212 3. Drying Oven - TL-317 , TL-026 4. Metal thickness gauge - TIC-34 5. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I 6. Length gauge - TIC-35	Dorjey Kazi Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
55	2.31	Aggregate	BS EN 933-4;2008	Tests for geometrical properties of aggregates Determination of particle shape Shape index	Tech Lab	1. Test sieves - SL-01 to SL-37 2. Balance - TL-298, TL-212 3. Drying Oven - TL-317 , TL-026 4. Particle slide gauge - TL-149 5. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I	Dorjey Kazi Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
56	2.33	Aggregate	BS 812-110 :1990	Determination of Aggregate Crushing Value	Tech Lab	1. Compression Machine - TL-058 2. Balance - TL 298 3. Drying Oven - TL-317, TL-026 4. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I 5. ACV Apparatus -TIC 37 6. Test sieves - SL-01 to SL-37	Dorjey Kazi Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah

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57	2.34	Aggregate	BS 812-111:1990	Determination of Ten Percent Fine Value	Tech Lab	1. Balance- TL-298, TL-212 2. Drying Oven- TL-317, TL-026 3. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I 4. Ten Percent Apparatus - TIC-37 5. Compression Machine - TL-058 6. Test sieves - SL-01 to SL-37	Dorjey Kazi Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
58	2.35	Aggregate	BS 812-112:1990	Determination of Aggregate Impact Value	Tech Lab	1. Balance - TL-298, TL-212 2. Drying Oven - TL-317, TL-026 3. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I 4. AIV Apparatus - TIC-65 5. Test sieves - SL-01 to SL-37	Dorjey Kazi Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
59	2.36	Chemical Analysis of Aggregates	BS EN 1744-5:2006	Tests for chemical properties of aggregates – Determination of acid soluble chloride content	Tech Lab	1. Balance - TL-277 2. Conical Flasks 3. Burettes - TIC -43/1 to TIC-43-5 4. 25 ml Pipette - TIC-45-1 5. Filter paper, Hot plates, Beakers	Dahy Hamza Amiel Jane Zulfiger Ali Andrea Prabhu
60	2.40	Chemical Analysis of Aggregates	BS EN 1744 Part 1: Clause 12, 2009+A1:2012	Tests for chemical properties of aggregates – Determination of acid soluble sulphate content of Aggregate	Tech Lab	1. Drying Oven - TL-104 2. Balance - TL-277 3. Conical Flasks, Funnel 4. Crucible 5. Furnace - TL - 191 6. 25 ml Pipette - TIC-45-1 7. Filter paper, Hot plates, Beakers. 8. Filtration App. 9. Desiccator	Dahy Hamza Amiel Jane Zulfiger Ali Andrea Prabhu
61	-	Aggregate	ASTM C29/C29M -17	Standard Test Method for Bulk Density (Unit Weight ) and Voids in Aggregate	Tech Lab	1. Metal measure - TIC 28-1, 28-2, 28-3, 28-4 2. Straight edge - TL-256 3. Tamping rod - TIC 65-5 4. Scoop 5. Riffle boxes - TIC-52E / 52F/ 52H/ 52I 6. Balance - TL 298, TL 212	Dorjey Kazi Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah

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62	-	Aggregate	BS 812: Part 2 (Clauses 5.7) 1995	Methods for determination of density Determination of particle densities and water absorption Method for determination of particle density of filler	Tech Lab	1. Test sieves - SL-33 2. Balance - TL 298, TL 212 3. Drying Oven - TL-317, TL-026 4. Density bottle 50 or 100 ml 5. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I	Dorjey Kazi Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
63	-	Aggregate	BS 932-1 (Clauses 8.8): 1997	Tests for general properties of aggregates Methods for sampling Cl. 8.8 - Sampling from Stockpiles	Tech Lab	1. Hand Shovel 2. Shovel 3. Scoops 4. Sample Bags 5. Sample Tags / Markers	Dorjey Kazi Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
64	-	Aggregate	BS EN 1097-2:2010	Determination of Resistance to Fragmentation	Tech Lab	1. Los angels Apparatus -TIC -042 2. Test Sieves - SL-51, 53, 55, 59 3. Trays & Scoop 4. Riffle box - TL-317, TL-026 5. Oven - TL - 026, TL-317 6. Balance - TL-010, TL-298, TL-212	Dorjey Kazi Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
65	-	Chemical Analysis of Aggregates	BS EN 1744-1 Clause 7: 2009+A1:2012	Determination of water soluble chloride salts using Volhard's Method of Aggregate	Tech Lab	1. Drying Oven - TL-104 2. Balance - TL-009 3. Conical Flasks 4. Burettes - TIC -43/1 to TIC-43-5 5. Pipette - TL 45-1 6. Mechanical Shaker - TL-053 7. Bottle	Dahy Hamza Amiel Jane Zulfiger Ali Andrea Prabhu
66	-	Aggregate	BS EN 932-1 (Clause 9): 1997	Tests for general properties of aggregates Methods for sampling Cl. 9 - Sample reduction	Tech Lab	1. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I 2. Scoop 3. Containers	Dorjey Kazi Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah

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67	-	Aggregate	CML-1 -97	Immersed Rotation Test of Aggregate	Tech Lab	1.Test sieves - TIC-SL-03,17,34a 2.Balance - TL-313, TL-298 3. Drying Oven - TL-317, TL-026 4. Riffle Boxes - TIC-52E / 52F/ 52H/ 52I 5. IRT Equipment -TIC-98	orjey Kazi Krishna Poudel Bhaskar Bogati Sandeep Prasad Mahadav Poudel Younest Rai Karma Lepcha Rabi Mahato Ramsharan Subedi Roy Palacios Noor Wahab Hashar Amanullah
68	3.1	Concrete	ASTM C31 / C31M - 15ae1	Standard Practice for Making and Curing Concrete Test Specimens in the Field	Tech Lab	1. Prism mould(160*40*40) 2. Grout mould(50*50*50 & 100*100*100) 3. Cube mould(150*150*150) 4. Cylinder mould(300*150) 5.Tamping rod 6.Thermometer 7. Steel rule 8.Trowel 9. Mallet 10. Strike off plate	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Sandeep Prasad Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Umesh Thapa Younest Rai Hashar Amanullah Alvin Yanga Noor Wahab Bimal Sunuwar Robert Kelman Chetilal Chalaune Chand Basha Harka Shahabhdur
69	3.2	Concrete	ASTM C172 / C172M - 14a	Standard Practice for Sampling Freshly Mixed Concrete	Tech Lab	1. Scoop 2. Shovel 3.Trowel 4. Containers	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Sandeep Prasad Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Umesh Thapa Younest Rai Hashar Amanullah Alvin Yanga Noor Wahab Bimal Sunuwar Robert Kelman Chetilal Chalaune Chand Basha Harka Shahabhdur

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70	3.3	Concrete	ASTM C1064/ C1064M - 12	Temperature of Freshly Mixed Hydraulic-Cement Concrete	Tech Lab	1. Thermometer - TL-165	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Sandeep Prasad Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Umesh Thapa Younest Rai Hashar Amanullah Alvin Yanga Noor Wahab Bimal Sunuwar Robert Kelman Chetilal Chalaune Chand Basha Harka Shahabahdur
71	3.4	Concrete	ASTM C143 / C143M - 15a	Standard Test Method for Slump of Hydraulic-Cement Concrete	Tech Lab	1. Slump mould cone 2. Tamping rod 3. Measuring tape 4. Scoop	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Sandeep Prasad Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Umesh Thapa Younest Rai Hashar Amanullah Alvin Yanga Noor Wahab Bimal Sunuwar Robert Kelman Chetilal Chalaune Chand Basha Harka Shahabahdur
72	3.5	Concrete	ASTM C39 / C39M - 16b	Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens	Tech Lab	1. Compressive machine TL-101 2. Balance -TL-209, TL-276 3. Cylinder mould 4. Tamping rod	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Alvin Yanga Bimal Sunuwar Younest Rai
73	3.6	Concrete	ASTM C617/ C617M-15	Capping Cylindrical Concrete Specimens	Tech Lab	1. Capping plates 2. Alignment device 3. Melting pot	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Alvin Yanga Bimal Sunuwar Younest Rai

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74	3.8	Concrete	ASTM C42/C42M-16	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	Tech Lab	1. Core drill machine 2. Balance -TL-209	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Alvin Yanga Chand Basha Robert Kelman Shahbahadur Mandoj Bimal Sunuwar
75	3.11	Concrete	ASTM C1202 - 12	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	Tech Lab	1. RCPT Apparatus - TL-201 2. Vacuum Pump Gauge 3. Vacuum Desiccators Gauge - TL-202 4. Stop Watch - TL-182	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Alvin Yanga Bimal Sunuwar
76	3.12	Concrete	ASTM C231 / C231M - 14	Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method	Tech Lab	1. Air meter(B Type) - TL-249 2. Measuring bowl 3. Trowel 4. Tamping rod 6. Mallet 7. Strike off plate	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Alvin Yanga Bimal Sunuwar Younest Rai
77	3.14	Concrete	ASTM C138 / C138M - 16a	Standard Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete	Tech Lab	1. Balance -TL-209 2. Tamping rod 3. Mallet 4. Scoop	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Alvin Yanga Bimal Sunuwar Younes t Rai
78	3.19	Concrete	ASTM C1611/C 1611 M-14	Slump Flow of Self-Consolidating Concrete	Tech Lab	1. Slump Mould - TIC-02 2. Measuring Scale - TIC-32E	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Sandeep Prasad Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Umesh Thapa Younest Rai Hashar Amanullah Alvin Yanga Noor Wahab Bimal Sunuwar Robert Kelman Chetital Chalaune Chand Basha Harka Shahbahadur

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79	3.21	Concrete	BS EN 12350-1:2009	Testing fresh concrete. Sampling	Tech Lab	1. Thermometer - TL-165 2. Scoop 3. Containers	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Sandeep Prasad Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Umesh Thapa Younest Rai Hashar Amanullah Alvin Yanga Noor Wahab Bimal Sunuwar Robert Kelman Chetilal Chalaune Chand Basha Harka Shahabahdur
80	3.22	Concrete	BS EN 12390-2:2009	Testing hardened concrete. Making and curing specimens for strength tests	Tech Lab	1. Cube mould - TIC-25 2. Compacting rod - TIC-2B 3. Hygro Thermometer - TL-130 4. Containers 5. Shovel 6. Mallet	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Sandeep Prasad Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Umesh Thapa Younest Rai Hashar Amanullah Alvin Yanga Noor Wahab Bimal Sunuwar Robert Kelman Chetilal Chalaune Chand Basha Harka Shahabahdur
81	3.23	Concrete	BS EN 12350-2:2009	Testing fresh concrete. Slump-test	Tech Lab	1. Slump mould - TIC-02 2. Compacting rod - TIC-2B 3. Stop Watch - TL 182 4. Thermometer - TL-165	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Sandeep Prasad Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Umesh Thapa Younest Rai Hashar Amanullah Alvin Yanga Noor Wahab Bimal Sunuwar Robert Kelman Chand Basha Harka Shahabahdur

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82	3.24	Concrete	BS EN 12350-5:2009	Testing Fresh Concrete. Flow table test	Tech Lab	1. Mold 2. Flow table 3. Ruler - TIC-32E 4. Stop Watch - TL-182 5. Pan, Scoop, Strike of bar	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Sandeep Prasad Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Umesh Thapa Younest Rai Hashar Amanullah Alvin Yanga Noor Wahab Bimal Sunuwar Robert Kelman Chetlil Chalaune Chand Basha Harka Shahabdhur
83	3.25	Concrete	BS EN 12390-1:2012	Testing hardened concrete. Shape, dimensions and other requirements for specimens and moulds	Tech Lab	1. Steel Ruler - TIC-32E 2. Straight edge - TL-171 3. Feeler gauge - TL-178/A, TL-177	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Alvin Yanga Bimal Sunuwar Sushil Younest Rai
84	3.26	Concrete	BS EN 12390-3:2009	Testing hardened concrete. Compressive strength of test specimens	Tech Lab	1. Compression Machine - TL- 101 , TL 276 2. Balance - TL- 209 3. Steel Ruler - TIC-32E 4. Feeler gauge -TL- 178/A, TL- 177 5. Caliper - TL-248	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Alvin Yanga Bimal Sunuwar Sushil Younest Rai
85	3.27	Concrete	BS EN 12390-7:2009	Testing hardened concrete. Density of hardened concrete	Tech Lab	1. Balance - TIC -209 2. Steel Ruler - TL-32E 3. Caliper - TL-248	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Alvin Yanga Bimal Sunuwar Sushil Younest Rai
86	3.28	Concrete	BS EN 12504-1:2009	Testing concrete in structures Cored specimens. Taking, examining and testing in compression	Tech Lab	1. Compression Machine - TL- 101 , TL 276 2. Balance - TL- 209 3. Digital Caliper - TL- 248 4. Feeler gauge - TL- 178/A, TL 177 5. Coring machine 6. Straight Edge - TL- 171	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Alvin Yanga Bimal Sunuwar Sushil Younest Rai



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87	3.29	Concrete	BS EN 12390-8:2009	Testing hardened concrete. Depth of penetration of water under pressure	Tech Lab	1. Water penetration Apparatus - TL-140 2. Compression Machine - TL 101, TL - 276	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Alvin Yanga Bimal Sunuwar
88	3.30	Concrete	BS 1881-122:2011	Testing concrete. Method for determination of water absorption	Tech Lab	1. Balance - TL - 209 2. Drying Oven - TL-303 3. Stop Watch - TL-182	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Alvin Yanga Bimal Sunuwar
89	3.31	Concrete	BS 1881-208:1996	Testing concrete. Recommendations for the determination of the initial surface absorption of concrete	Tech Lab	1. ISAT Apparatus - TL-208 2. Stop Watch - TL-182 3. Thermometer - TL 165	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Alvin Yanga Bimal Sunuwar
90	3.32	Concrete	NT BUILD 492 - 1999-11	Concrete, Mortar and Cement Based repair materials Chloride Migration Coefficient from non-steady-state Migration experiments	Tech Lab	1. Chloride Migration Apparatus - TL-203 2. Vacuum Pump Gauge - TL-202 3. Coring Machine 4. Vacuum Container 5. Caliper - TL-248 6. Spray Bottle	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Alvin Yanga Bimal Sunuwar Zulfiger Ali Andrea Prabhu
91	3.33 3.34	Chemical Analysis of Concrete	BS 1881-124 (Clauses 10.2 and 10.3) : 2015	Part 124: Methods for Analysis of Hardened Concrete 10.2 Determination of Chloride Content 10.3 Determination of Sulphate Content	Tech Lab	1. Drying Oven - TL-104 2. Balance - TL-009 3. Conical Flasks - TIC-46-1 to 46-3 4. Burettes - TIC -43/1 to TIC-43/5 5. Furnace - TL-191 6. 25 ml Pipette - TIC-45-1 to 45-2	Dahy Hamza Zulfiger Ali Amiel Jane Andrea Prabhu
92	-	Concrete	ASTM C900-15	Standard Test Method for Pullout Strength of Hardened Concrete	Field Test	1. Pull out test apparatus	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Younest Rai

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93	-	Concrete	ASTM C192/ C192M-16a	Making and Curing Concrete Test Specimens in the Laboratory	Tech Lab	1. Prism mould(160*40*40) 2. Grout mould(50*50*50 & 100*100*100) 3.Cube mould(150*150*150) 4. Cylinder mould(300*150) 5.Tamping rod 6.Thermometer 7. Steel rule 8.Trowel 9.Mallet 10. Strike off plate 11.Remixing container 12. Concrete mixer 13. Air content appt. 14. Slump cone	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Sandeep Prasad Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Umesh Thapa Younest Rai Hashar Amanullah Alvin Yanga Noor Wahab Bimal Sunuwar Chetital Chalaune Chand Basha Harka Shahabdur
94	-	Concrete	ASTM C232 / C232M - 14	Standard Test Method for Bleeding of Concrete	Tech Lab	1. Glass graduate 100 ml 2. Glass graduate 25 ml 3. Thermometer - TL-165 4.Stop watch - TL-182 5. Tamping rod	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Younest Rai Alvin Yanga
95	-	Concrete	ASTM C940-16	Standard Test Method for Expansion and Bleeding of Freshly Mixed Grouts	Tech Lab	1. Stopwatch -TL-182 2.Thermometer - TL-165 3. Graduated cylinder 1000 ml - TIC 27/1 4. Graduated cylinder 25 ml - TIC 27/2	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Younest Rai Alvin Yanga
96	-	Concrete	ASTM C109-16a	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50- mm] Cube Specimens)	Tech Lab	1. Compression Machine - TL-101, TL-276 2. Balance - TL-209 3. Caliper - TL-248	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Younest Rai Alvin Yanga
97	-	Concrete	ASTM C496/496M-11	Splitting tensile strength of cylindrical concrete specimens	Tech Lab	1. Compression Machine - TL-058 2. Balance - TL-209 3. Digital Caliper - TL-248 4.Tensile splitting apparatus - TIC-62	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Younest Rai Alvin Yanga

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98	-	Concrete	BS EN 445:2007 ASTM C939-16a	Fluidity test	Tech Lab	1. Flow cone - TIC-26 2. Stopwatch -TL-182 3. Thermometer - TL-165 4. Graduated cylinder - TIC 27/3	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Alvin Yanga
99	-	Concrete	BS EN 445:2007	Bleeding & Volume Change	Tech Lab	1. Flow cone - TIC -26 2. Stopwatch -TL-182 3. Thermometer - TL-165 4. Graduated cylinder - TIC 27/3	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Alvin Yanga Younest Rai
100	-	Concrete	DIN 1048	Testing concrete of hardened concrete (specimens prepared in mould)	Tech Lab	1. Water penetration Apparatus - TL-140 2. Compression Machine - TL-101, TL-276	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Alvin Yanga
101	-	Concrete	BS EN 12350-7:2009	Air content of fresh concrete - Pressure gauge method	Tech Lab	1. Pressure gauge meter apparatus - TIC-16B 2. Hygro Thermometer - TL-130 3. Containers 4. Shovel 5. Mallet	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Alvin Yanga
102	-	Concrete	BS EN 12350-6:2009	Testing fresh concrete. Density	Tech Lab	1. Container -TIC-16A 2. Balance - TL-209 3. Mallet 4. Scoop	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Younest Rai Alvin Yanga
103	-	Concrete	BS EN 12390-5:2009	Testing Hardened Concrete - Flexural Strength of Test Specimen	Tech Lab	1. Flexural machine - TL-057 2. Steel Ruler - TIC - 32E 3. Caliper - TL -248	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Younest Rai Alvin Yanga
104	-	Concrete	BS EN 12390-6:2009	Tensile splitting strength of test specimens	Tech Lab	1. Compression Machine - TL - 058 2. Balance - TL - 209 3. Digital Caliper - TL-248 4. Tensile splitting apparatus - TIC-62	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Tanka Prasad Shyam Rai Sagar Thapa Younest Rai Alvin Yanga

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105	10.4	Concrete	ASTM C805 - 13a	Rebound hammer test for concrete	Field Test	1. Rebound hammer - TL-272 2. Engineer's Scale - TIC-32E	Dorjey Kazi Arun Kumar Bhaskar Bogati Shailesh Thapa Shamnar K Veetil Sagar Thapa Karma Lepcha Robert Kelman
106	4.1 4.4	Masonry Blocks and Paving Units	BS EN 771-1 & BS EN 772-1: 2011+A1:2015	Compressive strength of clay and concrete masonry blocks	Tech Lab	1. Compression Machine - TL-058 2. Balance - TL-209 3. Steel Ruler - TIC-32E 4 Caliper - TL-248	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Younest Rai Alvin Yanga
107	4.2	Masonry Blocks and Paving Units	BS EN 771-1:2011+A1:2015	Water Absorption for Clay Masonry Blocks	Tech Lab	1. Balance - TL-209 2. Steel Ruler - TIC-32E 3. Oven - TL-303	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Younest Rai Alvin Yanga
108	4.3	Masonry Blocks and Paving Units	BS 6073-1 Appendix A:1981	Measurement of dimension of masonry blocks	Tech Lab	1. Steel Ruler - TIC-32B 2. Digital Caliper - TL-248	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Younest Rai Alvin Yanga
109	4.3	Masonry Blocks and Paving Units	BS 6073-1 Appendix B:1981	Compressive strength of concrete masonry blocks	Tech Lab	1. Compression Machine - TL- 101, TL 276 2. Balance - TL- 209 3. Steel Ruler - TIC-32E 4. Caliper TL-248	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Younest Rai Alvin Yanga
110	4.5	Masonry Blocks and Paving Units	BS EN 771 Part 3:2011+A1:2015	Water Absorption for Masonry Blocks	Tech Lab	1. Balance - TL-209 2. Steel Ruler - TIC-32E 3. Oven - TL-303	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Younest Rai Alvin Yanga

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111	4.6	Masonry Blocks and Paving Units	BS EN 1340 Annex C:2003	Measurement of Dimension of Kerbs	Tech Lab	1. Steel Ruler - TIC-32E 2. Caliper - TL-248 3. Straight Edge - TL-171 4. Feeler Gauge - TL-178/A	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Younest Rai Alvin Yanga
112	4.7	Masonry Blocks and Paving Units	BS EN 1340 Annex E:2003	Determination of Water Absorption of Kerbs	Tech Lab	1. Balance - TL- 209 2. Steel Ruler - TIC-32E 3. Oven - TL-303	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Younest Rai Alvin Yanga
113	4.8	Masonry Blocks and Paving Units	BS EN 1340 Annex F:2003	Measurement of Bending Strength Kerbs	Tech Lab	1. Flexural machine - TL-057 2. Steel Ruler - TIC-32E 3. Caliper - TL-248	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Younest Rai Alvin Yanga
114	4.9	Masonry Blocks and Paving Units	BS EN 1338 Annex E:2003	Water absorption of paving blocks	Tech Lab	1. Balance - TL- 209 2. Steel Ruler - TIC - 32E 3. Caliper - TL-248 4. Oven TL-303	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Younest Rai Alvin Yanga
115	4.10	Masonry Blocks and Paving Units	BS EN 1338 Annex F:2003	Tensile splitting strength of paving blocks	Tech Lab	1. Compression Machine - TL-058 2. Steel Ruler - TIC-32E 3. Caliper - TL-248	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Younest Rai Alvin Yanga

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116	4.11	Masonry Blocks and Paving Units	BS EN 1339 Annex F:2003	Measurement of Bending strength & Breaking Load of concrete flags	Tech Lab	1. Flexural machine - TL-057 2. Steel Ruler - TIC-32E 3. Caliper - TL-248	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Younest Rai Alvin Yanga
117	4.12	Masonry Blocks and Paving Units	BS EN 1339 Annex E:2003	Determination of water absorption of concrete flags	Tech Lab	1. Balance - TL-209 2. Steel Ruler - TIC-32E 3. Oven - TL-303	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Younest Rai Alvin Yanga
118	4.13	Masonry Blocks and Paving Units	BS 6717-1 Annex A:1993	Measurement of dimension of paving blocks	Tech Lab	1. Steel Ruler - TIC-32E 2. Caliper - TL-248	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Younest Rai Alvin Yanga
119	4.13	Masonry Blocks and Paving Units	BS 6717-1 Annex B:1993	Compressive strength of paving blocks	Tech Lab	1. Compression Machine -TL- 101, TL 276 2. Balance - TL- 209 3. Steel Ruler - TIC - 32E 4. Caliper - TL-248	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Younest Rai Alvin Yanga
120	4.15	Masonry Blocks and Paving Units	ASTM C936 16 / ASTM C140/C140M-16	Water Absorption Test of Paving Blocks/ Water Absorption of Masonry Units	Tech Lab	1. Balance - TL- 209 2. Steel Ruler - TIC-32E 3. Caliper - TL - 248 4. Oven - TL-303	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Younest Rai Alvin Yanga

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121	4.16	Masonry Blocks and Paving Units	BS EN 13748 Part 1 -Sec 5.5 & 5.8: 2004	Dimension Breaking and Water Absorption of Terrazzo Tiles	Tech Lab	1. Compression Machine - TL - 101 2. Balance - TL - 209 3. Digital Caliper - TL-248	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Sagar Thapa Bimal Sunuwar Alvin Yanga
122	-	Masonry Blocks and Paving Units	BS EN 772-11:2011	Methods of test for masonry units Part 11: Determination of water absorption of aggregate concrete, autoclaved aerated concrete, manufactured stone and natural stone masonry units due to capillary action and the initial rate of water absorption of clay masonry units	Tech Lab	1. Stopwatch - TL-182 2. Ventilated oven - TL-303 3. Balance - TL-209	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Younest Rai Alvin Yanga
123	-	Masonry Blocks and Paving Units	BS EN 772-13:2000	Determination of Net and Gross Dry Density of Masonary Units	Tech Lab	1. Balance - TL - 209 2. Digital Caliper - TL-248	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Younest Rai Alvin Yanga
124	-	Masonry Blocks and Paving Units	BS EN 1338 Annex I:2003	Unpolished slip resistance value of paving blocks	Tech Lab	1. Pendulum friction tester - TIC-33 2. Steel Ruler - TIC - 32E 3. Caliper - TL-248	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Alvin Yanga Younest Rai
125	-	Masonry Blocks and Paving Units	BS EN 1339 Annex C:2003	Measurement of dimension of concrete flags	Tech Lab	1. Steel Ruler - TIC - 32E 2. Caliper - TL-248	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Alvin Yanga Younest Rai

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126	-	Masonry Blocks and Paving Units	BS EN 1338 Annex C:2003	Dimension of paving blocks	Tech Lab	1. Steel Ruler - TIC - 32E 2. Caliper - TL-248	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Alvin Yanga Younest Rai
127	-	Masonry Blocks and Paving Units	BS 2484 :1985	Impact resistance test of cable tiles	Tech Lab	1. Impact testing apparatus - TIC-54 2. Steel Ruler - TIC - 32E	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Alvin Yanga Younest Rai
128	-	Masonry Blocks and Paving Units	BS 6073-2 Appendix C :2008	Determination of block density & area of hollow blocks	Tech Lab	1. Steel Ruler - TIC-32E	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Alvin Yanga
129	-	Tiles and Marbles	ASTM C97/C97M -15	Water Absorption & Bulk Specific Gravity of Dimension Stone	Tech Lab	1. Balance - TL- 209 2. Steel Ruler - TIC - 32E 3. Oven - TL-303	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Alvin Yanga
130	-	Tiles and Marbles	ASTM C99/C 99M - 15	Modulus Rupture of Dimension Stone	Tech Lab	1. Flexural machine - TL-057 2. Steel Ruler - TIC-32E 3. Caliper - TL-248	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Alvin Yanga



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131	-	Tiles and Marbles	ASTM C170 - 16	Compressive Strength of Dimension Stone	Tech Lab	1. Compression Machine - TL-058 2. Steel Ruler - TIC -32E 3. Caliper - TL-248	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Alvin Yanga
132	5.1	Cement	BS EN 196-7:2007	Taking & Preparation of Cement	Tech Lab	Sampling Apparatus	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane
133	5.2	Cement	ASTM C183-16	Method of Sampling Cement	Tech Lab	Sampling Equipment and Sampling Form	Amiel Jane Zulfiger Ali Andrea Prabhu Dianne Co Vanessa Martesio Arun Kumar Jagat Bhandari Rabi Mahato Alvin Yanga Jagat Bandhari Mohammed Nowfer Alvin Yanga
134	5.3	Cement	BS EN 196-1: 2016	Determination of strength of cement	Tech Lab	1. Mixer - TL-305 2. Test sieves - SL-01 to SL-37 3. Balance - TL-209 4. Compression Machine - TL-058 5. Caliper -TL-248	Dorjey Kazi Arun Kumar Rabi Mahato Jagat Bandhari Mohammed Nowfer Umesh Thapa Tanka Prasad Shyam Rai Sagar Thapa Bimal Sunuwar Alvin Yanga
135	5.5	Chemical Analysis of Cement	BS EN 196-2-Cl. 4.5.14: 2013	Method of testing cement- Chemical analysis of cement- Determination of calcium oxide	Tech Lab	1. Drying Oven - TL-104 2. Balance capable of weighing 0.0005g -TL-277 3. Conical Flasks 4. Burettes - TIC -43/1 to TIC-43-5 5. 25 ml Pipette - TIC-45-1 6. pH meter 7. Crucible, Filter paper, Hot plates, Beakers 8. Hot plate Stirrer	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane

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136	5.6	Chemical Analysis of Cement	BS EN 196 Part 2-Cl. 4.5.15: 2013	Method of testing cement- Chemical analysis of cement- Determination of magnesium oxide	Tech Lab	1. Drying Oven - TL-104 2. Balance capable of weighing 0.0005g -TL-277 3. Conical Flasks 4. Burettes - TIC -43/1 to TIC-43-5 5. 25 ml Pipette - TIC-45-1 6. pH meter 7. Crucible, Filter paper, Hot plates, Beakers 8. Hot plate Stirrer	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane
137	5.7	Chemical Analysis of Cement	BS EN 196 Part 2-Cl. 4.5.11:2013	Method of testing cement- Chemical analysis of cement- Determination of aluminum oxide	Tech Lab	1. Drying Oven - TL-104 2. Balance capable of weighing 0.0005g -TL-277 3. Conical Flasks 4. Burettes - TIC -43/1 to TIC-43-5 5. 25 ml Pipette - TIC-45-1 to TIC-45-2 6. pH meter 7. Crucible, Filter paper, Hot plates, Beakers 8. Hot plate Stirrer	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane
138	5.8	Chemical Analysis of Cement	BS EN 196 Part 2-Cl. 4.5.10:2013	Method of testing cement- Chemical analysis of cement- Determination of iron (III) oxide	Tech Lab	1. Drying Oven - TL-104 2. Balance capable of weighing 0.0005g - TL-277 3. Conical Flasks 4. Burettes - TIC -43/1 to TIC-43-5 5. Furnace - TL - 191 6. 25 ml Pipette - TIC-45-1 7. pH meter-CHEM-7 8. Crucible, Filter paper, Hot plates, Beakers 9. Hot plate stirrer	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane
139	5.9	Chemical Analysis of Cement	BS EN 196 Part 2-Cl. 4.4.1:2013	Method of testing cement-Chemical analysis of cement-Loss on Ignition	Tech Lab	1- Balance capable of weighing 0.0005g - TL-277 2. Furnace - TL - 191 3. Crucible 4. Desiccator	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane

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140	5.10	Chemical Analysis of Cement	BS EN 196 Part 2-Cl. 4.5.5: 2013	Method of testing cement- Chemical analysis of cement- Decomposition with hydrochloric acid and ammonium chloride and precipitation of silica (alternative method)	Tech Lab	1- Balance capable of weighing 0.0005g - TL-277 2. Furnace - TL - 191 3- Hot plate 4-Cylinder, 10ml, 50ml, 100ml 5.Crucible,Beaker, Filter paper 6. Desiccator	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane
141	5.11	Chemical Analysis of Cement	BS EN 196 Part 2-Cl. 4.5.6: 2013	Method of testing cement- Chemical analysis of cement- Determination of pure silica	Tech Lab	1. Balance capable of weighing 0.0005g - TL-277 2. Furnace - TL - 191 3. Hot plate 4. Cylinder, 10ml, 50ml, 100ml 5. Crucible,Beaker, Filter paper 6. Desiccator	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane
142	5.13	Chemical Analysis of Cement	BS EN 196 Part 2-Cl. 4.5.19: 2013	Method of testing cement- Chemical analysis of cement- Determination of alkali	Tech Lab	1. Balance capable of weighing 0.0005g - TL-277 2. Conical Flasks 3. Flame photometer 4. Beakers	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane
143	5.14	Cement	BS EN 196-3:/Clause 6:2016	Determination of Setting Time of Cement	Tech Lab	1. Vicate apparatus - TIC 31A 2. Stop watch - TL-193 3. Mould 4. Mixer - TL-305 5. Balance - TL-209	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane
144	5.15	Cement	BS EN 196-3:/Clause 7:2016	Determination of soundness of cement	Tech Lab	1. Le Chatelier apparatus 2. Water bath - TL-217 3. Measuring Scale - TIC-32F 4. Vicate apparatus - TIC-31A 5. Mixer - TL- 305 6. Stop watch - TL-193 7. Mould 8. Balance - TL-209	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane
145	5.16	Cement	ASTM C191-13	Setting Time By Vicat Needle	Tech Lab	1. Vicat Apparatus	Amiel S Zulfiger Ali Andrea Prabhu Dorjey Kazi Arun Kumar Bhaskar Bogati Bimal Sunuwar Sagar Thapa Alvin Yanga

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146	5.19	Chemical Analysis of Cement	BS EN 196 Part 2-Cl. 4.5.16: 2013	Method of testing cement- Chemical analysis of cement- Determination of chloride	Tech Lab	1. Drying Oven - TL-104 2. Balance capable of weighing 0.0005g - TL-277 3. Conical Flasks 4. Burettes - TIC -43/1 to TIC-43-5 5. 25 ml Pipette/TIC-45-1 6. pH meter 7. Crucible, Filter paper, Hot plates, Beakers	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane
147	5.21	Cement	BS EN 196-6:2010	Determination of Fineness of Cement	Tech Lab	1. Balance - TL- 277 2. Blain Apparatus - TIC 31B 3. Stop watch - TL-193 4. Filter paper	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane
148	-	Cement	ASTM C430-08(2015)	Fineness of Microsilica	Tech Lab	1. 2.0 inch dia.,0.045 mm Test sieve - TIC-01 2. Spray nozzle with pressure gauge-TL-151 3. Oven TL-104 4. Balance TL- 277 5. Graduated Cylinder	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane
149	-	Cement	ASTM C1240 - 15	Standard Specification for Silica Fume Used in Cementitious Mixtures - Moisture Content and Loss on Ignition - Clause 11	Tech Lab	1. Muffle furnace -TL-191 2. Oven -TL-026 3. Balance-TL-277 4. Hot plate - CHEM 4	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane
150	-	Chemical Analysis of Cement	BS EN 196 Part 2-Cl. 4.4.2: 2013	Method of testing cement-Chemical analysis of cement- Sulphate Content	Tech Lab	1. Balance capable of weighing 0.0005g - TL-277 2. Furnace - TL - 191 3. Hot plate, Beakers, Funnel, Rod 4. pH meter - CHEM-7 5. Desiccator	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane
151	-	Chemical Analysis of Cement	BS EN 196 Part 2-Cl. 4.4.3: 2013	Method of testing cement- Chemical analysis of cement- Determination of residue insoluble in hydrochloric acid and sodium carbonate	Tech Lab	1. Drying Oven - TL-104 2. Balance capable of weighing 0.0005g - TL-277 3. Conical Flasks 4. Furnace/TL - 191 5. 25 ml Pipette/TIC-45-1 6. pH meter -CHEM-7 7. Crucible, Filter paper, Hot plates, Beakers	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane

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152	-	Cement	BS EN 15167-1:2006	Ground Granulated Blast Furnace Slag for Use in Concrete, Mortar and Grout - Part 1: Definitions, Specifications and Conformity Criteria	Tech Lab	1. Furnace - TL-191 2. Balance - TL-009 3. Burettes - TIC -43/1 to TIC-43/5 4. 1Lt Volumetric Flasks - TIC-49-1 to 49-2 5. 25 ml Pipette/ TIC-45-1 to 45-2 6. Low form beaker 7. Glass Plate 8. Rod 9. Hygro Thermometer - TL-131 10. pH meter	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane
153	-	Cement	BS EN 15167-2:2006 (Clause 5.4)	Ground Granulated Blast Furnace Slag for Use in Concrete, Mortar and Grout - Part 2: Conformity Evaluation Clause 5.4 Audit Testing at Depot	Tech Lab	1. Furnace - TL-191 2. Balance - TL-009 3. Burettes - TIC -43/1 to TIC-43/5 4. 1Lt Volumetric Flasks - TIC-49-1 to 49-2 5. 25 ml Pipette/ TIC-45-1 to 45-2 6. Low form beaker 7. Glass Plate 8. Rod 9. Hygro Thermometer - TL-131	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane
154	-	Cement	ASTM C204 - 16	Fineness of Hydraulic Cement by Air-Permeability Apparatus	Tech Lab	1. Balance - TL-009 2. Blaine Apparatus 3. Standard Material 114q NIST Blaine 3818 cm <sup>2</sup> /g	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane
155	6.1	Asphalt	ASTM D140 / D140M - 16	Standard Practice for Sampling Bituminous Materials	Tech Lab	1. Containers	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetital Chalaune
156	6.2	Seal Coat / Prime Coat	ASTM D402 - 14	Standard Test Method for Distillation of Cutback Asphalts	Tech Lab	1. Balance - TL-009 2. Distillation Apparatus - CHEM-25	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane
157	6.3	Asphalt	ASTM D2995-14	Standard Practice for Estimating Application Rate of Bituminous Distributors	Tech Lab	1. Balance - TL-111 2. Engineer's Steel Ruler - TIC-32A,E	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetital Chalaune Younest Rai

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158	6.4	Asphalt	ASTM D70-09e1	Standard test method for Density of semi solid bituminous materials (Pycnometer method)	Tech Lab	1. Water bath - TL-108 2. Balance - TL-111 3. Pycnometer - AL-01 4. Thermometer - TL-227 5. Beaker - AL-02	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetlil Chalaune
159	6.5	Asphalt	ASTM D5 / D5M - 13	Standard Test Method for Penetration of Bituminous Materials	Tech Lab	1. Penetrometer -TL-029 2. Oven - TL-089, TL-224 3. Water bath - TL-108 4. Stop watch - TL-181 5. Thermometer - TL-164 6. Containers	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetlil Chalaune
160	6.6	Asphalt	ASTM D36 / D36M - 14e1	Standard Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)	Tech Lab	1. Ring & Ball appt.- TIC-09 2. Oven - TL-089, TL-224 3. Thermometer-TL-164 4. Hot plate	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetlil Chalaune
161	6.7	Asphalt	ASTM D92 - 16b	Standard Test method for Flash and Fire Points by Cleveland Open Cup tester	Tech Lab	1. Fire and Flash Point - CHEM-36 2. Liquid in Glass Thermometer - TL-200	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane
162	6.8	Asphalt	ASTM D113 - 07	Standard Test Method for Ductility of Bituminous Materials	Tech Lab	1. Ductilometer - TL-268 2. Oven - TL-089, TL-224	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetlil Chalaune
163	6.10	Asphalt	ASTM D6 / D6M - 95 (2011)e1	Standard Test Method for Loss on Heating of Oil and Asphaltic Compounds	Tech Lab	1. Thin film oven - TL-299 2. Mercury thermometer - TL-200 3. Oven - TL-089, TL-224 4. Balance -TL-009	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetlil Chalaune
164	6.12	Asphalt	ASTM D4402/ D4402M-15	Standard Test Method for Viscosity Determination of Asphalt at Elevated Temperatures Using a Rotational Viscometer	Tech Lab	1. Rotational Viscometer - TL-270	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer
165	6.13	Asphalt	ASTM D6648 - 08(2016)	Standard Test Method for Determining the Flexural Creep Stiffness of Asphalt Binder Using the Bending Beam Rheometer (BBR)	Tech Lab	1. Bending Beam Rheometer - TL-267	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer

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166	6.14	Asphalt	ASTM D7175 - 15	Standard Test Method for Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer	Tech Lab	1. Dynamic Shear Rheometer - TL-263	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer
167	6.15	Asphalt	ASTM D6521 - 13	Standard practice for Accelerated Aging of Asphalt Binder Using Pressurized Aging Vessel (PAV)	Tech Lab	1. Pressure Aging Vessel - TL-265	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer
168	6.15	Asphalt	ASTM D6521 - 13	Clause 10.13 Vacuum degas the aged sample	Tech Lab	1. Vacuum Degassing Oven - TL-266	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer
169	6.16	Asphalt	ASTM D2872 - 12e1	Standard Test method for Effect of Heat and Air on a Moving Film of Asphalt (Rolling thin film Oven Test)	Tech Lab	1. Rolling Thin film oven - TL-264	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer
170	6.17	Asphalt	ASTM D7405 - 15	Multiple Stress Creep & Recovery [MSCR] of Asphalt Binder Using Dynamic Shear Rheometer	Tech Lab	1. Rolling Thin film Oven - TL-264 2. Dynamic Shear Rheometer - TL-263	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer
171	6.18	Tack Coat / Prime Coat	ASTM D95 - 13e1	Standard Test Method for Water in Petroleum and Bituminous Materials by Distillation	Tech Lab	1. Balance - TL-009 2. Water Content Determination Apparatus 3. Liquid in Glass Thermometer - TL-200	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane
172	6.22	Asphalt	ASTM D979 / D979M - 15	Standard Practice for Sampling Bituminous Paving Mixtures	Tech Lab	Containers Shovels & Scoop	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetlil Chalaune
173	6.23	Asphalt	ASTM D5361 / D5361M - 16	Standard Practice for Sampling Compacted Bituminous Mixtures for Laboratory Testing (Asphalt Core)	Tech Lab	Coring machine & core drill bit	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetlil Chalaune

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174	6.24	Asphalt	ASTM D6926 - 16	Standard Practice for Preparation of bituminous specimens using Marshall apparatus	Tech Lab	1. Mold assembly - A to U 2. Balance - TL-111 3. Marshall compactor - TIC-93 4. Oven - TL-089, TL-224 5. Thermometer - TL-227 6. Riffle Box - TIC - 52	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetital Chalaune
175	6.25	Asphalt	ASTM D2726/D2726M - 14	Standard test method for Bulk specific gravity and density of non-absorptive compacted bituminous mixtures	Tech Lab	1. Caliper - TL-183 2. Balance - TL-111 3. Thermometer - TL-227 4. Oven - TL-110	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetital Chalaune
176	6.27	Asphalt	ASTM D2041/D2041M -11	Standard Test Method for Theoretical Maximum specific gravity and density of Bituminous Paving Mixtures	Tech Lab	1. GMM Apparatus - AL-03 2. Vacuum Gauge - TL-161 3. Vacuum Pressure Gauge TL-160 4. Thermometer - TL-227 5. Stop watch - TL-181 6. Oven - TL-089, TL-224 7. Balance - TL-111 8. Riffle Boxes - TIC-52	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetital Chalaune
177	6.29	Asphalt	ASTM D3549/D3549M -11	Standard test method for Thickness or height of compacted bituminous paving mixture specimens	Tech Lab	1. Caliper - TL-183	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetital Chalaune
178	6.30	Asphalt	ASTM D6927 - 15	Standard Test Method for Marshall stability and flow of asphalt mixture	Tech Lab	1. Marshall machine - TL-145 2. Water bath - TL-108 3. Thermometer - TL-227 4. Stop Watch - TL-181	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetital Chalaune



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179	6.31	Asphalt	ASTM D5581 - 07a(2013)	Standard Test Method for Resistance to Plastic Flow of Bituminous Mixtures Using Marshall Apparatus (6 inch-Diameter Specimen)	Tech Lab	1. Marshall compactor - TIC-095A 2. Thermometer - TL-164 3. Marshall test machines -TL-145 4. Oven - TL-089, TL-224 5. Stop watch -TL-181 6. Balance -TL-111 7. Caliper-TL-183 8. Mold assembly - TIC-I to TIC-XVI	ey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetital Chalaune
180	6.32	Asphalt	ASTM D2172/ D2172M-11	Standard Test Methods for Quantitative extraction of bitumen from bituminous paving mixtures	Tech Lab	1. Centrifuge Extractor - TL-030 2. Balance - TL-111 3. Oven - TL-089, TL-224 4. Rifle Box - TIC-52	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetital Chalaune
181	6.34	Asphalt	ASTM D5444 - 15	Standard Test Method for Mechanical Sieve Analysis of Extracted Aggregate	Tech Lab	1. Test sieves - AL-01 to AL-46 2. Balance - TL-111 3. Drying Oven - TL-089, TL-224	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer
182	6.40	Asphalt	ASTM D 6931-12	Standard Test Method For Indirect Tensile (IDT) strength of Bituminous Mixtures	Tech Lab	1. Loading device - TL-100 2. Loading Strip - TIC-04 3. Water Bath - TL-108 4. Thermometer - TL-164	Pramod Lama Zulfiger Ali Vanessa Martesio
183	6.46	Asphalt	AASHTO T283 - 14	Standard Test Method for Resistance of Compacted Hot Mix Asphalt (HMA) to Moisture - Induced Damage	Tech Lab	1. Specimen Extractor 2. Compaction Hammers-TIC-93 3. Refrigerator-TL-341 4. Electronic Balance-TL-111 5. Vacuum Gauge-TL-202 6. Water Bath-TL-108	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer
184	6.47	Asphalt	BS EN 12697-27:2001	Bituminous mixtures — Test methods for hot mix asphalt - Sampling	Tech Lab\Site	Sampling shovel & Scoop	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetital Chalaune

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185	6.48	Asphalt	BS EN 12697-28:2001	Bituminous mixtures – Test methods for hot mix asphalt -Preparation of Samples for Determining Binder Content, Water Content & Grading	Tech Lab	1. Balance - TL-111 2. Drying Oven - TL-089, TL-224 3. Thermometer - TL-227 4. Rifle Box - TIC - 52 5. Sampling shovel & Scoop	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetital Chalaune
186	6.49	Asphalt	BS EN 12697-30:2012	Bituminous mixtures - Test methods for hot mix asphalt - Specimen Preparation By Impact Compactor	Tech Lab	1. Mold assembly - A1 to U1 2. Balance - TL-111 3. Marshall compactor - TIC-91 4. Drying Oven - TL-089, TL-224 5. Thermometer - TL-227 6. Riffle Box - TIC - 52	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer
187	6.50	Asphalt	BS EN 12697-1:2012	Bituminous mixtures – Test Methods for hot mix asphalt (Soluble Binder Content)	Tech Lab	1. Centrifuge Extractor - TL-030 2. Balance - TL-111 3. Drying Oven - TL-089, TL-224 4. Riffle Box - TIC-52	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer
188	6.51	Asphalt	BS EN 12697-2:2015	Bituminous mixtures – Test Methods for hot mix asphalt - Determination of particle size distribution	Tech Lab	1. Test sieves - AL-01 to AL-46 2. Balance - TL-111 3. Drying Oven - TL-089, TL-224	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer
189	6.52	Asphalt	BS EN 12697-5:2009	Bituminous mixtures - Test methods for hot mix asphalt Determination of Maximum Density	Tech Lab	Calculation	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer
190	6.53	Asphalt	BS EN 12697-6: 2012	Bituminous mixtures – Test methods for hot mix asphalt - Determination of Bulk Density of Bituminous Material	Tech Lab	1. Water Bath -TL-108 2. Balance - TL-111 3. Drying Oven - TL-089, TL-224 4. Thermometer - TL-227	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer
191	6.54	Asphalt	BS EN 12697-8:2003	Bituminous mixtures – Test methods for hot mix asphalt - Determination of Voids Characteristics of Bituminous Specimens	Tech Lab	Calculation	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer

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192	6.56	Asphalt	BS EN 12697-13:2000	Bituminous mixtures – Test methods for hot mix asphalt - Temperature Measurement	Tech Lab\Site	1. Thermometer-TL-227	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetital Chalaune
193	6.57	Asphalt	BS EN 12697-29:2002	Bituminous mixtures - Test methods for hot mix asphalt - Determination of dimensions of Bituminous Specimens	Tech Lab	1. Engineer's Steel Ruler - TIC-32A 2. Caliper - TL-183	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetital Chalaune
194	6.58	Asphalt	BS EN 12697-34:2012	Bituminous mixtures - Test methods for hot mix asphalt - Marshall Test	Tech Lab	1. Marshall machine - TL-145 2. Water bath - TL-108 3. Thermometer - TL-227 4. Stop Watch - TL-181	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetital Chalaune
195	6.59	Asphalt	BS EN 12697-35:2016	Bituminous mixtures- Test methods for hot mix asphalt Laboratory Mixing	Tech Lab	1. Balance - TL-111 2. Drying Oven - TL-089, TL-224 3. Thermometer - TL-227 4. Rifle Box - TIC-52 5. Hot plate & bowl and spatula	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetital Chalaune
196	6.60	Asphalt	BS EN 12697-36:2003	Bituminous mixtures - Test methods for hot mix asphalt Determination of the thickness of a bituminous pavement (Specimen)	Tech Lab	1. Engineer's Steel Ruler - TIC-32A, E 2. Caliper - TL-183	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetital Chalaune
197	6.62	Asphalt	BS EN 1426:2015	Bitumen and bituminous binders - Determination of needle penetration	Tech Lab	1. Penetrometer - TL-029 2. Penetration needles 3. Water Bath - TL-108 4. Thermometer - TL-227	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetital Chalaune
198	6.63	Asphalt	BS EN 1427:2015	Bitumen and bituminous binders - Determination of the Softening point - Ring and Ball Method	Tech Lab	1. Softening point Apparatus - TL-173	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetital Chalaune
199	-	Asphalt	STM D3203 / D3203M - 11	Percent Air Voids in compacted Dense and Open Bituminous Paving Mixtures	Tech Lab	1. Caliper - TL-183 2. Balance - TL-111 3. Thermometer - TL-227 4. Drying Oven - TL-089, TL-224	Dorjey Kazi Arun Kumar Tanka Prasad Umesh K. Thapa Pramod Lama Zulfiger Ali Yogesh Mohammed Nowfer Chetital Chalaune

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200	7.2	Steel	ASTM A370-17 (Cl 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, Annex A7, A9)	Standard Test Methods and Definitions for Mechanical Testing of Steel Products	Tech Lab	1. UTM steel testing machine - TL-174 2. Balance - TL-157 3. Balance - TL-114 4. Steel Ruler - TIC-32E 5. Caliper - TL-183	Bhaskar Bogati Arun Kumar Zulfiger Ali Dorjey Kazi Mir Hamza
201	7.3 7.4	Steel	BS 4449:2005+A 3:2016	Specification for carbon steel bars for the reinforcement of concrete Bend & Rebend test	Tech Lab	1. UTM steel testing machine - TL-174 2. Balance - TL-157 3. Balance - TL-114 4. Steel Ruler - TIC-32E 5. Caliper - TL-183	Bhaskar Bogati Arun Kumar Zulfiger Ali Dorjey Kazi Mir Hamza
202	7.9	Steel	ASTM A1061/A1061M-16	Standard Test Methods for- Testing Multi-Wire Steel Strand	Tech Lab	1. UTM steel testing machine - TL-174 2. Balance - TL-157 3. Balance - TL-114 4. Steel Ruler - TIC-32E 5. Caliper - TL-183	Bhaskar Bogati Arun Kumar Zulfiger Ali Dorjey Kazi Mir Hamza
203	-	Steel	BS EN ISO 15630-1:2010 (Cl 5.3 Cl 6 Cl 7)	Steel for the Reinforcement of Concrete - Test Methods Cl 5.3 Total Elongation at Maximum Force Cl 6 Bend Test Cl 7 Rebend Test	Tech Lab	1. UTM steel testing machine - TL-174 2. Balance - TL-157 3. Balance - TL-114 4. Steel Ruler - TIC-32E 5. Caliper - TL-183	Bhaskar Bogati Arun Kumar Zulfiger Ali Dorjey Kazi Mir Hamza
204	-	Steel	BS 6892-1:2016 (Cl 6 Cl 7, Cl 8, Cl 10.4, Cl 11, Cl 2, Cl 13, Cl 20)	Metallic materials Tensile testing Method of test at ambient temperature	Tech Lab	1. UTM steel testing machine - TL-174 2. Balance - TL-157 3. Balance - TL-114 4. Steel Ruler - TIC-32E 5. Caliper - TL-183	Bhaskar Bogati Arun Kumar Zulfiger Ali Dorjey Kazi Mir Hamza
205	8.1	Geotechnical	BS 5930 Section 6 :2015	Code of practice for site investigations Section 6: Description of soil	Tech Lab	Lab Equipment	Lab Technicians
206	8.3	Geotechnical	ASTM D5731-16	Determination of the Point Load Strength Index of Rock and Application to Rock Strength Classifications	Tech Lab	1. Point load index equipment - TL-027	Dorjey Kazi Shamnnar K Veetil Shailesh Thapa
207	8.4	Geotechnical	ASTM D4543-08	Preparation Rock Core Specimens to Dimensional and Shape Tolerances	Tech Lab	1. Core Cutting Machine 2. Grinding Machine 3. Tolerance Gauge	Shailesh Thapa Shamnnar K Veetil Dorjey Kazi Robert Kelman Bhaskar Bogati Sandeep Prasad Harka B Arun Kumar

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208	8.5	Geotechnical	ASTM D 7012-14 Method C ONLY EXCLUDED CL 5.6 Elevated-Temperature Enclosure	Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures	Tech Lab	1. Triaxial compression machine/TL-144 (SL No 11/000770) 2. Extensometer	Dorjey Kazi Shamnnar K Veetil Shilesh Thapa Arun Kumar Bhaskar Bogati
209	8.8	Geotechnical	BS 1377 Part-7 :1990	Soils for engineering purposes Part 7: Shear strength test (total stress)	Tech Lab	1. Load ring/TL-037 (PR0187) 2. Dial gauge/TL-034 (HYT856) 3. Standard Wt. Plates/TL-031 (1, 2, 2, 5, 10 kg) 4. Shear test Apparatus	Bhaskar Bogati Sandeep Prasad Jagat Bandhar Krishna Poudel Ramsharan Subedi Shailesh Thapa
210	8.14	Geotechnical	BS 5930 Section 3 : 2015 Clause 22 ( 22.1, 22.4, 22.8, 22.11)	Code of practice for site investigations Section 3: Field Investigation Clause 22: Sampling at the ground	Field Test	Equipment as per standard	Shailesh Thapa Shamnnar K Veetil Robert Kelman Shahabahdur
211	8.15 8.16	Geotechnical	BS 5930 Section 3: 2015 Clause 23 (23.1, and 23.3)	Code of practice for site investigations Section 3: Field Investigation Clause 23: Ground water	Field Test	1. Water Sampler 2. Clean polyethylene, polypropylene or glass bottle 3. Water Pump	Shailesh Thapa Shamnnar K Veetil Robert Kelman Shahabahdur
212	8.16	Geotechnical	BS 5930 Section 4 : 2015 Clause 27 ( 27.1, 27.2, 27.3, 25.4 27.5 and 27.6)	Code of practice for site investigations Section 4: Field Tests Clause 27: Pumping tests	Field Test	Equipment as per standard	Shailesh Thapa Shamnnar K Veetil Robert Kelman Shahabahdur
213	8.17 8.18	Geotechnical	BS 5930 Section 4 : 2015 Clause 25 (25.1, 25.2, 25.4, 25.5 and 25.6)	Code of practice for site investigations Section 4: Field Tests Clause 25: Tests in boreholes	Field Test	Equipment as per standard	Shailesh Thapa Shamnnar K Veetil Robert Kelman Shahabahdur
214	8.19	Geotechnical	BS 1377 Part-9 Sec 3.3:1990	Soils for engineering purposes Part 9: Standard Penetration Test (SPT)	Tech Lab	1. Drilling/ Coring Machine 2. SPT Hammer	Shailesh Thapa Shamnnar K Veetil Robert Kelman Chand Basha Shah Bahadur Harka B
215	8.20	Geotechnical	ASTM G57-06 (2012)	Electrical Resistivity Test	Tech Lab	1. Voltmeter 2. Current Source 3. Electrodes	Shailesh Thapa Shamnnar K Veetil Robert Kelman Chand Basha

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216	8.21	Geotechnical	BS 1377 Part-9 Clause 4.1: 1990	Soils for engineering purposes Part 9: In-situ tests	Field test	1. Hydraulic Jack with gauge - TL-078 2. Dial gauge 5 Nos - TL-011/TL-013/TL-015/TL-018/TL-020 3. Deflection beam 4. Load bearing plates - 300 mm to 720 mm 5. Thermometer - TL 083A 6. Sand	Bhaskar Bogati Sandeep Prasad Jagat Bandhari Autl Gurung Krishna Poudel Shamnnar K Veetil Shailesh Thapa Dorjey Kazi Arun Kumar
217	8.22	Geotechnical	BS 1377 Part-9 Clause 4.3: 1990	Soils for engineering purposes Part 5: In-situ Tests. Determination of In- situ California Bearing Ratio(CBR)	Field Test	In Situ CBR Equipment	Sailesh Thapa Krishna Prasad Atul Gurung Jagat Bandhari Bhaskar Bogati
218	-	Geotechnical	BS 59302015 Section 4 Clause 41	Code of Practice for Site Investigations. Section 4: Exploratory holes Clause 41-Standard Penetration Test	Field Test	1. Drilling/ Coring Machine 2. SPT Hammer	Shailesh Thapa Shamnnar K Veetil Robert Kelman Chand Basha Shah Bahadur
219	-	Geotechnical	ASTM D 1196/D 1196M-12(2016)	Plate load test	Tech Lab	1. Hydraulic Jack with gauge/TL-078 2. Dial gauge 5 Nos/TL-011/TL-013/TL-015/TL-018/TL-020 3. Deflection beam 4. Load bearing plates - 300 mm to 720 mm 5. Thermometer - TL 083A 6. Sand	Krishna Poudel Bhaskar Bogati Shamnnar K Veetil Robert Kelman Shailesh Thapa Atul Gurung Arun Kumar Dorjey Kazi
220	-	Geotechnical	ASTM D 3080-11 Excluding Cl 8 & 9.8 Consolidation	Direct Shear Test of Soils Under Consolidated Drained Conditions	Tech Lab	1. Load ring - TL-037 (PR0187) Calib 12 Aug 2015 2. Dial gauge - TL-034 (HYT856) Calib 5 April 2016 3. Standard Wt. Plates - TL-031 (1, 2, 2, 5, 10 kg) 4. Shear test Apparatus	Dorjey Kazi Ramsharan Subedi Bhaskar Bogati Shailesh Thapa Shamnnar K Veetil
221	-	Geotechnical	BS 5930 Section 5 :2015	Code of practice for site investigations Section 5: Laboratory tests on samples	Tech Lab	Lab Equipment	Lab Technicians
222	-	Geotechnical	BS 5930 Section 7: 2015	Code of practice for site investigations Section 7: Reports and interpretation	Tech Lab	Report Preparation	Shailesh Thapa Shamnnar K Veetil

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223	-	Geotechnical	BS 5930 Section 3: 2015 Clause 20 (20.1, 20.2, 20.5, 20.6, 20.7, 20.8)	Code of practice for site investigations Section 3: Field Investigation Clause 20: Excavations & boreholes	Field Test	Drilling Equipment as per standard	Shailesh Thapa Shamnnar K Veetil Robert Kelman Shah Bahadur Mandoj Chand Basha
224	-	Geotechnical	BS 5930 Section 3: 2015 Clause 21 (21.1, 21.2, 21.3)	Code of practice for site investigations Section 3: Field Investigation Clause 21: Frequency of sampling and testing in boreholes	Field Test	Sampling Equipment as per standard	Shailesh Thapa Shamnnar K Veetil Robert Kelman Shah Bahadur Mandoj Chand Basha
225	-	Geotechnical	BS 5930 Section 4: 2015 Clause 26 (26.1, 26.2)	Code of practice for site investigations Section 4: Field Tests Clause 25: Probing & penetration tests	Field Test	Equipment as per standard	Shailesh Thapa Shamnnar K Veetil Robert Kelman Shahabahdur
226	-	Geotechnical	BS 5930 Section 4 : 2015 Clause 28 (28.6 only)	Code of practice for site investigations Section 4: Field Tests Clause 28: Analysis of pumping tests	Field Test	Equipment as per standard	Shailesh Thapa Shamnnar K Veetil Robert Kelman Shahabahdur
227	-	Geotechnical	BS 5930 Section 4: 2015 Clause 29 ( 29.1, 29.2, 29.3 and 29.6)	Code of practice for site investigations Section 4: Field Tests Clause 29: Field density	Field Test	1. Nuclear Machine 2. Sand replacement appts 3. Core cutting machine	Shailesh Thapa Shamnnar K Veetil Robert Kelman Shahabahdur Harka
228	-	Geotechnical	BS 5930: 2015 Section 48	Code of practice for site investigations Section 48: Geohydraulic testing  LIMITED TO UNCONFINED AQUIFERS ONLY, STEADY STATE CONDITIONS	Field Test	1. Flow Meter (TL-150) 2. Pressure transducers 3. Water level meter	Shailesh Thapa Shamnnar K Veetil Robert Kelman Chand Basha Shah Bahadur
229	-	Geotechnical	BS EN ISO 22282-2:2012 Clause 6 & Clause 7.1	Geotechnical investigation and testing - Geohydraulic testing Part 2: Water permeability tests in a borehole using open systems CL 6 Test procedure CL 7.1 Constant flow rate test method  LIMITED TO UNCONFINED AQUIFERS ONLY, STEADY STATE CONDITIONS	Field Test	1. Flow Meter (TL-150) 2. Pressure transducers 3. Water level meter	Shailesh Thapa Shamnnar K Veetil Robert Kelman Chand Basha Shah Bahadur

# SCOPE OF ACCREDITATION

NO.	PWA TEST NO.	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
230	9.1	Environmental Tests - Water & Wastewater	APHA/AWWA 4500 H+ B SMEWW 22nd Edition 2012	pH Value of Water by Electrometric Method	Tech Lab	1. pH meter - CHEM -7 2. Beakers	Amiel Jane Zulfiger Ali Andrea Prabhu Dahy Hamza Vanessa Martesio
231	9.2	Environmental Tests - Water & Wastewater	APHA/AWWA 2510 B SMEWW 22nd Edition 2012	Conductivity by Laboratory Method	Tech Lab	1- Conductivity meter - CHEM-8 2. Beakers	Amiel Jane Zulfiger Ali Andrea Prabhu Dahy Hamza Vanessa Martesio
232	9.3	Environmental Tests	APHA 2130 B	Standard Methods for the Examination of Water and Wastewater (Turbidity)	Tech Lab	1. Turbidity meter - CHEM 27	Amiel Jane Zulfiger Ali Andrea Prabhu Dahy Hamza Vanessa Martesio
233	9.4	Environmental Tests - Water & Wastewater	APHA/AWWA 2540 B SMEWW 22nd Edition 2012	Total Solids in Water	Tech Lab	1. Balance -TL-277 2. Evaporating dish 3. Graduated cylinder - TIC 50/2 4. Drying Oven - TL-104 5. Dessicator 6. Magnetic Stirrer 7. Timer	Amiel Jane Zulfiger Ali Andrea Prabhu Dahy Hamza Vanessa Martesio
234	9.5	Environmental Tests - Water & Wastewater	APHA/AWWA 2540-D SMEWW 22nd Edition 2012	Total Suspended Solids in Water	Tech Lab	1. Balance -TL-277 2. Evaporating dish 3. Graduated cylinder, TIC 50/2 4. Drying Oven - TL-104 5. Dessicator 6. Magnetic Stirrer 7. Timer	Amiel Jane Zulfiger Ali Andrea Prabhu Dahy Hamza Vanessa Martesio
235	9.7	Environmental Tests - Water & Wastewater	APHA/AWWA 2540-C SMEWW 22nd Edition 2012	Total Dissolved Solids in Water	Tech Lab	1. Balance -TL-277 2. Evaporating dish 3. Graduated cylinder, TIC 50/2 4. Drying Oven - TL-104 5. Dessicator 6. Magnetic Stirrer 7. Timer	Amiel Jane Zulfiger Ali Andrea Prabhu Dahy Hamza Vanessa Martesio
236	9.13	Environmental Tests - Water & Wastewater	APHA/AWWA 5210 B SMEWW 22nd Edition 2012	Biological Oxygen Demand (BOD) of Water	Tech Lab	1. Incubator - TL-002 2. DO Meter - CHEM-19 3. Glass Bottles 4. Beaker 5. Graduated Cylinders	Amiel Jane Zulfiger Ali Andrea Prabhu Dahy Hamza Vanessa Martesio
237	9.14	Environmental Tests - Water & Wastewater	APHA/AWWA 5220 D SMEWW 22nd Edition 2012	Chemical Oxygen Demand of Water	Tech Lab	1. Hach spectrophotometer- CHEM-6 2. COD DIGESTER-TL185 3. Pipette, Aspirator	Amiel Jane Zulfiger Ali Andrea Prabhu Dahy Hamza Vanessa Martesio
238	9.22	Environmental Tests - Water & Wastewater	APHA/AWWA 4500-Cl G SMEWW 22nd Edition 2012	Total Chlorine in Water	Tech Lab	1. Hach spectrophotometer- CHEM-6 2. Sample Cell	Amiel Jane Zulfiger Ali Andrea Prabhu Dahy Hamza Vanessa Martesio



# SCOPE OF ACCREDITATION

NO.	PWA TEST NO.	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
239	9.22	Environmental Tests - Water & Wastewater	APHA/AWWA 4500-Cl G SMEWW 22nd Edition 2012	Free Chlorine in Water (DPD Colorimetric Method )	Tech Lab	1. Hach spectrophotometer- CHEM-6 2. Sample Cell	Amiel Jane Zulfiger Ali Andrea Prabhu Dahy Hamza Vanessa Martesio
240	9.24	Environmental Tests - Water & Wastewater	APHA/AWWA 4500-Cl B SMEWW 22nd Edition 2012	Chloride Content of Water	Tech Lab	1. Conical Flasks 2. Burettes - TIC -43/1 to TIC-43-5 3. 25 ml Pipette - TIC-45-1 to 45-2 4. Drying Oven - TL-104 5. pH Meter - CHEM-7	Amiel Jane Zulfiger Ali Andrea Prabhu Dahy Hamza Vanessa Martesio
241	9.32	Water & Wastewater	APHA/AWWA 4500 SO4 C SMEWW 22nd Edition 2012	Sulphate of Water	Tech Lab	1. Conical Flasks - TIC-46-1 to 46-3 2. Burettes - TIC -43/1 to TIC-43-5 3. 25 ml Pipette - TIC-45-1 to 45-2 4. Hot plate , Beaker , Crucible 5. Muffle Furnace -TL-191 6. pH Meter - CHEM-7 7. Desiccator	Amiel Jane Zulfiger Ali Andrea Prabhu Dahy Hamza Vanessa Martesio
242	9.34	Environmental Tests - Water & Wastewater	APHA/AWWA 4500 F D SMEWW 22nd Edition 2012	Fluoride Content of Water	Tech Lab	1. Cuvettes 2. 10 ml Pipette/ TIC-44-1 to 44-4 3. Aspirator 4. Hach spectrophotometer	Amiel Jane Zulfiger Ali Andrea Prabhu Dahy Hamza Vanessa Martesio
243	9.35	Environmental Tests - Water & Wastewater	APHA/AWWA 2340 C SMEWW 22nd Edition 2012	Total Hardness of Water	Tech Lab	1. Conical Flasks 2. Burettes - TIC -43/1 to TIC-43-5 3. 25 ml Pipette - TIC-45-1 to 45-2 4. pH Meter-CHEM-7	Amiel Jane Zulfiger Ali Andrea Prabhu Dahy Hamza Vanessa Martesio
244	9.36	Environmental Tests - Water & Wastewater	APHA/AWWA 3500 Ca B SMEWW 22nd Edition 2012	Calcium in Water	Tech Lab	1. Conical Flasks 2. Burettes - TIC -43/1 to TIC-43-5 3. 25 ml Pipette - TIC-45-1 to 45-2 4. pH Meter-CHEM-7	Amiel Jane Zulfiger Ali Andrea Prabhu Dahy Hamza Vanessa Martesio
245	9.37	Environmental Tests - Water & Wastewater	APHA/AWWA 3500 Mg B SMEWW 22nd Edition 2012	Magnesium in Water	Tech Lab	1. Conical Flasks 2. Burettes - TIC -43/1 to TIC-43-5 3. 25 ml Pipette - TIC-45-1 to 45-2 4. pH Meter-CHEM-7	Amiel Jane Zulfiger Ali Andrea Prabhu Dahy Hamza Vanessa Martesio

# SCOPE OF ACCREDITATION

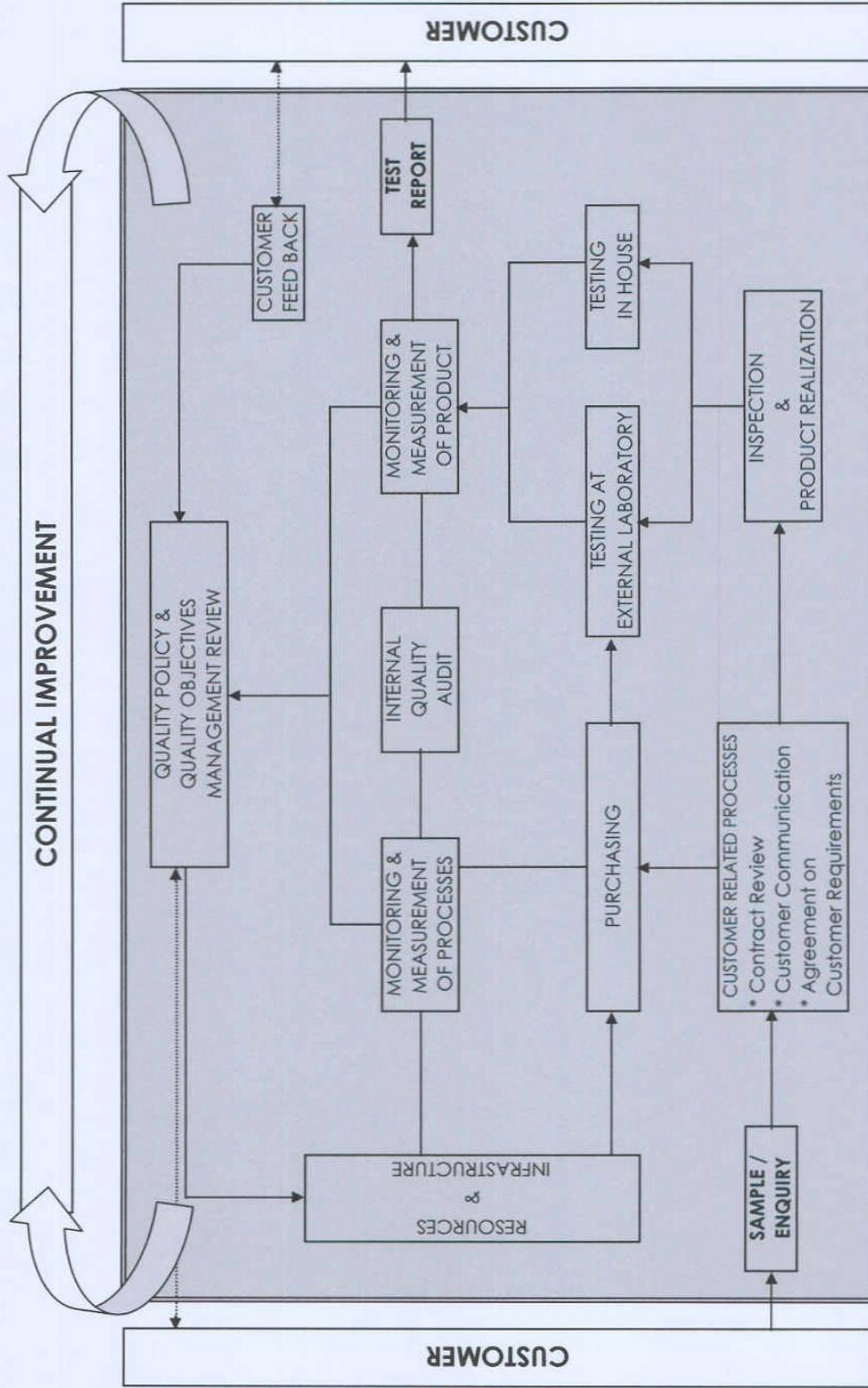
NO.	PWA TEST NO.	CATEGORY	STANDARD NO./METHOD /ISSUE DATE	TITLE OF STANDARD/METHOD USED AND ITS RELEVANT SECTION	LOCATION/ FACILITY	TEST EQUIPMENT/ INSTRUMENTATION USED (NAME/ID NO.)	NAMES OF APPROVED OPERATORS/ TECHNICIANS
246	9.69	Environmental Tests - Water & Wastewater	APHA/AWWA 2320 B SMEWW 22nd Edition 2012	Alkalinity in Water	Tech Lab	1. Conical Flasks 2. Burettes/TIC -43/1 to TIC-43-5 3. 25 ml Pipette/TIC-45-1 4. Hot plate , Beaker 5. pH Meter-CHEM-7	Amiel Jane Zulfiger Ali Andrea Prabhu Dahy Hamza Vanessa Martesio
247	9.76	Environmental Tests - Water & Wastewater	APHA/AWWA 22nd Edition 2012, Test-4500 SiO2 C	Silica	Tech Lab	Hach spectrophotometer	Amiel Jane Zulfiger Ali Andrea Prabhu Dahy Hamza Vanessa Martesio
248	9.80 9.81	Environmental Tests - Microbiological	APHA/AWWA 22nd Edition 2012, Test 9223 B	Enzyme Substrate Test	Tech Lab	1. Incubator - TL-002 (Y6D039) 2. Quanti Tray 3. Sterilized Bottle 4. Sealer 5. Filter paper 6. UV lamp	Amiel Jane Zulfiger Ali Andrea Prabhu Dahy Hamza Vanessa Martesio
249	-	Environmental Tests - Water & Wastewater	APHA/AWWA4 500 O G SMEWW 22nd Edition 2012	Dissolved Oxygen of Water using Membrane Electrode	Tech Lab	1. Dissolved Oxygen Meter - CHEM-19 2. Beaker, Stirring Road	Amiel Jane Zulfiger Ali Andrea Prabhu Dahy Hamza Vanessa Martesio
250	10.5	Non Destructive Testing	BS 1881-204: 1988	Testing concrete Part 204: Recommendation on the use of electromagnetic cover meters. Concrete cover determination	Tech Lab	Cover meter - TL-146	Dorjey Kazi Bhaskar Bogati Arun Kumar Shailesh Thapa Shamnar K Veetil
251	10.6	Non Destructive Testing	BS EN 12504-4:2004	Testing concrete in structures Part 4: Non-destructive testing: Ultrasonic pulse velocity	Field Test	Ultrasonic pulse velocity apparatus	Dorjey Kazi Bhaskar Bogati Arun Kumar Shailesh Thapa Shamnar K Veetil
252	10.7	Non Destructive Testing	Crack Width Gauge	Crack width gauge	Field Test	1. Crack width measuring apparatus	Dorjey Kazi Bhaskar Bogati Arun Kumar
253	10.8	Non Destructive Testing	Crack Microscope Measurement	Crack microscope measurement test	Field Test	1. Crack measurement microscope	Dorjey Kazi Bhaskar Bogati Arun Kumar
254	10.14	Non Destructive Testing	ASTM D 7091-13	Standard Practice for Nondestructive Measurement of Dry Film Thickness of Nonmagnetic Coatings Applied to Ferrous Metals and Nonmagnetic, nonconductive Coatings Applied to Non Ferrous Metals	Tech Lab	1. Coating Thickness Gauge - TL-320 2. Standardization Foils	Dorjey Kazi Shamnar K Veetil Sagar Thapa Zulfiger Ali Bhaskar Bogati Vanessa Martesio Arun Kumar

# SCOPE OF ACCREDITATION

NO.	PWA TEST NO.	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
255	-	Non Destructive Testing	BS EN 12504-2:2012	Testing concrete in structures Part 2: Non-destructive testing: Determination of rebound numbers. Rebound hammer test for concrete	Tech Lab	1. Rebound hammer - TL-272 2. Engineer's Scale - TIC-32A	Dorjey Kazi Bhaskar Bogati Arun Kumar Shamnar K Veetil Shailesh Thapa
256	-	Admixture	BS EN 480-Parts 2012	Determination of the conventional dry material content	Tech Lab	1. Oven- TL-104 2. Balance- TL- 009	Dahy Hamza Zulfiger Ali Andrea Prabhu Amiel Jane

## **4.QUALITY CONTROL**

The Schematic Quality Management System is provided below:



# **QHSE POLICY STATEMENT**

## TECH LAB TECHNICAL LABORATORIES QUALITY POLICY STATEMENT

Technical Laboratories is a well established company in Qatar. Technical laboratories are aspiring to become a leader in the field for testing of construction materials, geotechnical investigations, drilling for soils and water, piling, chemical and bacteriological analysis. It is the goal of Technical Laboratories to improve and gain its position in the market, by the management's commitment to ensure the good professional practice and the quality of its testing in servicing its Clients

Technical Laboratories undertakes to maintain a training program for its personnel in order to maintain the high standard of qualified personnel and regarding qualitative testing services. Our main goal is zero error in testing

Technical Laboratories was established in Qatar in 1996 and ever since Technical Laboratories has endeavored and succeeded in conducting its operations impartially and strictly in accordance with the statutory and regulatory requirements, international codes, standards and the clients requirements and expectations. In order to maintain this quality of services Technical Laboratories has established and implemented a management system in accordance with ISO/IEC 17025:2005

It is the policy of Technical laboratories to conduct its operations in such a manner as to safeguard its employees, the employees of the Client and members of the general public who may be affected by its operations, from injury and / or property damage and has a high regard for the environment we live in, therefore Technical Laboratories conducts its operations in a manner as to cause as little damage to the environment as is practical possible keeping testing services in line with ISO/IEC 17025:2005.

Technical Laboratories believes that all accidents / incidents are preventable; therefore in order to conduct its operations in compliance with the Technical Laboratories policy, The Management has appointed a dedicated Quality, Health, Safety and Environment (QHSE) Coordinator. The QHSE Coordinator has been authorized and charged with the maintenance and the continuous improvement of the Quality Management System that is compliant with the statutory and regulatory requirements as well as in accordance with the applicable ISO/IEC 17025:2005 standards, and to ensure the implementation of all applicable procedures, as well as to ensure safe and environment friendly work places. The QHSE Coordinator shall only report to the Manager on all matters pertaining to Quality.

The Management shall ensure that the necessary resources shall be made available to the QHSE Coordinator and hereby instruct all staff to strictly adhere to the conditions set out in the Company Policy, the QHSE manual and procedures.

The Management hereby instructs all personnel to refrain from any activity that may damage the Clients confidence in impartiality, competence, judgment and operational integrity of Technical Laboratories

  
30/12/2014  
Manager





General Manager

## **5.LIST OF EQUIPMENT**



# TECH LAB



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## EQUIPMENT LIST

Sl. No.	EQUIPMENT DESCRIPTION	MANUFACTURER
<b>A</b>	<b><u>ASPHALT SECTION</u></b>	
1	DRYING OVEN	UTEST , BESMAK
2	AUTOMATIC MARSHALL COMPACTOR	ELE, UTEST, HUMBOLDT
3	CENTRIFUGE EXTRACT 1500(g)	HOUGHTON, IMPACT, UTEST
4	GMM APPARATUS	
5	RIFFLE BOX	
6	WATER BATH	BESMAK
7	UNIVERSAL EXTRUDER	-
8	SEMI-AUTOMATIC PENETROMETER	CONTROL
9	MARSHALL PLUG MOULD	ELE
10	ASPHALT CORING MACHINE	
11	ELECTRONIC BALANCE 20 Kg.	CITIZEN
12	PRECISION BALANCE 30 kg	RADWAG
13	HYGRO-THERMOMETER	ETI
14	THERMOMETER	THERMAPEN
15	<b><u>200mm &amp; 300mm DIAMETER SIEVES</u></b> <b><u>37.5, 28.0, 25.0, 20.0, 14.0, 10.0, 6.3, 5.0, 4.75 , 3.35, 2.36, 1.18,</u></b> <b><u>0.600mm, 0.300, 0.150 and 0.075mm.</u></b>	IMPACT, GLENAMMER
16	CBR MARSHALL UNI AXIAL	UTEST
17	DIGITAL CALIPER	BAKER
18	DYNAMIC SHEAR RHEOMETER	MALVERN INSTRUMENTS
19	ROLLING THIN FILM OVEN	COOPER
20	PRESSURE AGING VESSEL	PRENTEX ALLOY FABRICATORS
21	VACUUM DEGASSING OVEN	ATS
22	BENDING BEAM RHEOMETER	ATS
23	DUCTILIMETER	TEST INTERNATIONAL
24	ROTATIONAL VISCOMETER	BROOKFIELD
25	SOFTENING POINT APPARATUS	BESMAK
26	CONE/STD PENETROMETER	ELE
27	MARSHAL LOAD RIGN	-
28	MARSHAL COMPACTOR	
29	GLASS THERMOMETER	BRANNAN
30	CENTRIFUGE EXTRACTOR	UTEST
31	DIGITAL VAC. PRESSURE GAUGE (DIGITAL MANOMETER)	HUMBOLDT
32	VACUUM PUMP PRESSURE GAUGE	WIKA
33	DIGITAL THERMOMETER (PEN TYPE)	ETI LTD

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## EQUIPMENT LIST

34	STOP WATCH	ETI
35	SURFACE THERMOMETER	EXTECH INST.
<b>B</b>	<b><u>SOIL / AGGREGATE SECTION</u></b>	
1	AUTOMATIC PROCTOR COMPACTOR	BESMAK
2	DRYING OVEN	BESMAK, UTEST
3	BS COMPACTION RAMMER (4.5 kg)	ELE
4	BS COMPACTION MOULD	ELE
5	SEMI-AUTOMATIC PENETROMETER	ELE
6	LIQUID LIMIT DEVICE (CASSAGRANDE)	BESMAK
7	SIEVE SHAKER FOR 200 mm & 300 mm	BESMAK
8	LOS ANGELES ABBRASSION MACHINE	BESMAK
9	VICATE TEST SET	BESMAK
10	IMMERSION ROTATIONAL TEST MACHINE	-
11	SOUNDNESS BASKET 1.18	BESMAK
12	SOUNDNESS BASKET 0.150	BESMAK
13	SOUNDNESS BASKET 3.35	BESMAK
14	SOUNDNESS BASKET 0.600	BESMAK
15	DENSITY BASKET	BESMAK
16	ALUMINIUM SAMPLE TRAY	-
17	MEASURING CYLINDER [500ml & 250ml]	ELE
18	BS CBR MOULD SET	ELE
19	PENETRATION DIAL GAUGE	ELE
20	30 kN CBR TESTING MACHINE	CONTROLS
21	30 kN CBR TESTING MACHINE	BESMAK
22	ATTERBERG LIMIT - EVAPORATION DISH	-
23	LINEAR SHRINKAGE CLIPS	ELE
24	SAND EQUIVALENT SHAKER	UTEST
25	DIRECT SHEAR APPARATUS	
26	ELONGATION GAUGE	CONTROL
27	FLAKINESS GAUGE	CONTROL
28	NUCLEAR GAUGES	HUMBOLDT / H 5001EZ CPN / C - MC3
29	SAND REPLACEMENT METHOD TESTING	CONTROL
30	SAND POURING CYLINDER 8" DIAMETER	
31	SAND BOTTLES	-
32	PLATE LOAD EQUIPMENT	IMPACT
33	LOADING JACK + PRESSURE GAUGE	
34	SETTLEMENT MEASURING GAUGE	

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## EQUIPMENT LIST

35	BASE PLATE - 1000 mm, 650 mm 450 mm	
36	DIAL GAUGE	LINEAR
37	DIAL GAUGE	BAKER
38	DIAL GAUGE	DTI/MITUTOYO
39	DESICCATOR	
40	ELECTRONIC BALANCE 20000g - 0.1g	ATCO / ES 20 K - 1
41	PRECISION BALANCE 2200g - 0.1g	PRECISA
42	ELECTRONIC BALANCE 30Kg	DIKOMSAN
43	HYGRO-THERMOMETER	ETI
44	THERMOMETER	THERMAPEN
45	<b>300 mm DIAMETER SIEVES</b> <b>75.0, 63.0, 50.0, 37.5, 28.0, 25.0, 20.0, 19.0, 14.0, 12.5, 10.0, 9.5, 6.3, 5.0 &amp; 0.063 mm</b>	ELE / IMPACT
46	<b>200mm DIAMETER SIEVES</b> <b>4.75, 3.35, 2.36, 2.0, 1.18, 0.850, 0.600, 0.425, 0.300, 0.212, 0.150, 0.075 and 0.063 mm</b>	ELE/MATEST/ CONTROLS/ IMPACT
47	PARTICLE SLIDE GAUGE	-
48	CONE PENETROMETER	UTEST
49	HYDROMETER	MATEST
50	RIFFLE BOX	
51	AGGREGATE IMPACT VALUE APPARATUS	UNIVERSAL
52	AUTOMATIC PROCTOR RAMMER (ASTM)	UTEST
53	CASAGRANDE APPARATUS (ASTM)	
		-
<b>C</b>	<b><u>CONCRETE SECTION</u></b>	
1	COMPRESSION TESTING MACHINE	
2	2000 kN [ADR 2000]	ELE
3	COMPRESSION TESTING MACHINE 3000 kN	BESMAK
4	2000 kN [ADR 2000]	
5	FLEXURAL MACHINE [100 kN]	ELE
6	SLUMP CONE WITH COMPLETE SET	ELE
7	SKID RESISTANCE TEST MACHINE	CONTROLS
8	INITIAL SURFACE ABSORPTION	-
9	WATER PENETRATION GAUGE	WIKE
10	ROCK POINT LOAD INDEX APPARATUS	BESMAK
11	BS CONCRETE MOULDS	ELE
12	CONCRETE CORE CAPPING - SET	MaTEST
13	HYGRO-THERMOMETER	ETI
14	BALANCE 30 kg	-
15	PLATFORM BALANCE 150 kg	CITIZEN

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## EQUIPMENT LIST

16	JOLTING APPARATUS	MATEST
17	RAPID CHLORIDE PERMEABILITY TEST APPARATUS	SCI TECH
18	AUTOMATIC CEMENT MIXER	UTEST
19	THERMOMETER	ETI LTD
20	FEELER GAUGE	INSIZE
21	DIGITAL BALANCE	
22	DIGITAL THERMOMETER	DIKOMSAN
23	CYLINDER MOULD 150 X 300 MM	ETI
24	ENGINEERS SQUIRE	STANLEY
25	AIR METER	GILSON
26	STRAIGHT EDGE	MOORE & WRIGHT
27	PRISM MOULD	-
28	MORTAR MOULD 50 MM	-
29	CONCRETE CUBE MOULD 100 MM	-
30	CONCRETE CUBE MOULD 150 MM	-
<b>D</b>	<b><u>CHEMICAL SECTION</u></b>	
1	DR 2400 SPECTROPHOTOMETER	HACH
2	REAGENTS + APPARATUS	HACH
3	DESSICATOR + VACUUM PUMP	-
4	INCUBATOR + OVEN	GENLAB
5	CHEMICAL APPARATUS	-
6	MUFFLE FURNACE	ELE, NABERTHERM
7	VICAT TEST SET	BESMAK
8	ph METER	HACH
9	TDS METER	HACH
10	HOT PLATE STIRRER	SCOTT. UK
11	QUANTI TRAY SEALER	IDEX
12	MECHANICAL SHAKER	GFL
13	HOT PLATE	
14	PRECISION BALANCE 2200g - 0.1g	PRECISA
15	AUTOCLAVE	DAIHAN SCIENTIFIC
16	HYGRO-THERMOMETER	ETI
17	COD DIGESTER	HACH LANGE
18	STOP WATCH/ TIMER	ETI
19	THERMOMETER GLASS	BRANNAN
20	CHLORIDE MIGRATION APPARATUS	SCI-TECH
21	BLUE METHYLENE TEST SET (IMPELLER AGITATOR)	MATEST
22	HYGRO THERMOMETER	ETI

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## EQUIPMENT LIST

23	FLASH AND FIRE POINT APP	CLEVELAND
24	BALANCE ANALYTICAL 260gm	OHAUS
25	REFRIGERATOR	SAMSUNG
26	REFRIGERATOR FREEZER	SHARP
27	GC- MS	AGILENT
28	ICP - OES WITH AUTOSAMPLER	AGILENT
29	TOC/TN ANALYZER WITH AUTOSAMPLER	SKALAR
30	OES	SPECTROMAXX
31	RO UNIT	-
32	WATER PURIFIER	MILLI Q
33	PURGE AND TRAP	TELEDYNE TEKMAR
34	ULTRASONIC BATH	GRANT
35	VACUUM PUMP	ROCKER
36	TURBIDITY METER	LOVIBOND
37	WATER BATH	DAIHAN SCIENTIFIC
38	BLAINE'S APPARATUS	HUMBOLT
39	UV LAMP	SPECTROLINE
40	DO METER	HACH
41	MAXIMUM REGISTERING THERMOMETER	DURAC
42	MICRO PIPETTE (100-1000 UL)	MICRO PIPETTE
43	MICRO PIPETTE (10-100 UL)	CAPP
44	45 micron sieve	ELE
45	Humidifier	MATEST
46	FLAME PHOTOMETER	-
<b>E</b>	<b>GEOTECHNICAL SECTION</b>	
	<b><u>PLATE LOAD EQUIPMENT</u></b>	IMPACT
1	LOADING JACK + PRESSURE GAUGE	
2	SETTLEMENT MEASURING GAUGES	
3	BASE PLATE-752mm, 650mm, 450mm & 300mm	
	<b><u>DRILLING RIGS</u></b>	
4	DANDO GEOTECH 5 DRILLING RIG	DANDO-UK
5	DRILLING RIG – BVB25	ATLAS COPCO
6	DRILLING RIG – CS14	ATLAS COPCO
7	DRILLING RIG- GTECH 2 NOS	G TECH INDIA
	<b><u>DRILLING TOOLS &amp; ACCESSORIES</u></b>	ATLAS COPCO
8	T 76, HE Series Conventional Coring	
9	PQ WIRELINE upto 1200 m Depth	
10	DTH Hammer with 76mm, 100mm 150mm, 200mm, 250mm & 300mm Diameter Bits	
11	DTH hammer with > 300mm diameter Bits	

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## EQUIPMENT LIST

12	MUD PUMP [2Nos.]	DANDO ATLAS COPCO
13	SHEAR BOX TESTING	HEICO
14	COMPRESSION MACHINE FOR UNIAXIAL AND TRI AXIAL	UTEST
15	POINT LOAD INDEX TESTING EQUIPMENT	BESMAK
16	ELECTRONIC DATA LOGER [7 Nos.]	SCHELMBERGER D 505
17	ELECTRICAL WATER LEVEL INDICATOR [4 Nos.]	ELE & BESMAK/ ENCARDIO RITE
18	LABORATORY OVEN [200 LT]	ELE
19	ATLAS COPCO AIR COMPRESSOR [XAS 850]	ATLAS COPCO
20	GROUND PENETRATION RADER [GPR]	GEO-SCANNER
21	FLOW METER	
22	IN-SITU CBR TEST EQUIPMENT	
23	SEISMOGRAPH FOR MASW SURVEY	PARSI -ITALY
	<b><u>PULL OUT EQUIPMENT</u></b>	HIGH FORCE
24	LOADING JACK + PRESSURE GAUGE	
25	PULL OFF EQUIPMENT, MACHINE +DOLLY	PROCEQ
26	PUNDIT 2000 ULTRA SONIC PULSE VELOCITY	PROCEQ
<b>F</b>	<b>GENERAL</b>	
1	VERNIER CALIPER DIGITAL	MITUTOYO
2	CUTTER	DEWALT
3	STEEL RULE	-
4	STOP WATCH	CASIO
<b>G</b>	<b>REFERENCE INSTRUMENT</b>	
1	GIBIRTINI BUOYANCY BALANCE	GIBERTINI
2	VERNIER CALIPER DIGITAL	VOGEL
3	THERMOMETER DIITAL 1300 °c	KANE MAY
4	THERMOMETER	THERMAPEN
5	STEEL RULE	WRIGHT & MOORE
6	<b><u>300 mm DIAMETER SIEVES</u></b> <b><u>75.0, 63.0, 50.0, 37.5, 28.0, 25.0, 20.0,19.0, 14.0, 12.5,10.0, 9.5, 6.3, 5.0 &amp; 4.75 mm</u></b>	IMPACT
7	<b><u>200mm DIAMETER SIEVES</u></b> <b><u>3.35, 2.36, 2.0, 1.18, 0.850, 0.600, 0.425, 0.300, 0.212, 0.180, 0.150, 0.075, and 0.063mm</u></b>	IMPACT

## **6.CALIBRATION LIST**

## EQUIPMENT APPARATUS EXTERNAL CALIBRATION LIST

SL. No.	Equipment ID	Instrument	Manufacturer	Model	Serial No.	Calibrated By.	Location	Capacity
1	TL-001	ELECTRONIC BALANCE	GIBERTINI	TM5600	37500	MPC-TISSCO	MASTER	0-5600 gms
2	TL-002	LAB OVEN	GENLAB	INC/75/SS	Y6D039	LABTECH	CHEM.-LAB	20-100 °C
5	TL-009	PRECISION BALANCE	PRECISA	XT2220M-DR	V43201	MPC-TISSCO	CHEM.-LAB	0-2220 gm
6	TL-010	PRECISION BALANCE	PRECISA	XT2220M-DR	V43202	MPC-TISSCO	SOIL-LAB	0-2220 gm
10	TL-016	DIAL GAUGE	LINEAR	DG-25MB	84889	MPC-TISSCO	GEOTECH	25 mm
12	TL-019	DIAL GAUGE	BORLETTI	-	-	BDH LAB	SOIL-LAB	25 mm
13	TL-020	DIAL GAUGE	LINEAR	DG-25MB	61706	MPC-TISSCO	SOIL-LAB	25 mm
14	TL-021	STOPWATCH	CASIO	HS-6	-	MPC-TISSCO	CONCRETE	9:59:59.99 sec
15	TL-025	CBR-LOAD CELL WITH HEIGHT GAUGE	BESMAK	H3-C3-5.0T-6B	4015-F780141	MPC-TISSCO	SITE-D	5000KG
17	TL-027	POINT LOAD IND.	AEP TRANS	DFP	-	MPC-TISSCO	GEO-LAB	0-350 BAR
18	TL-028	OVEN	BESMAK	-	2008/10	BDH LAB	SITE-A	-
19	TL-029	CONE/STD PENETROMETER	ELE	PN:24-0552/01	1721-3-1577	MPC-TISSCO	ASPH-LAB	0-40mm
20	TL-030	CENTRIFUGAL EXTRACTOR	HOUGHTON	HM-E4-2	40601	MPC-TISSCO	ASPH-LAB	3600rpm
21	TL-031	STANDARD WEIGHT PLATES(8)	-	-	-	MPC-TISSCO	GEO-LAB	1000-10000 gms
23	TL-034	DIAL GAUGE	MITUTOYO	-	HYT856	BDH LAB	GEOTECH	100MM
24	TL-035	DIAL GAUGE	MITUTOYO	3058S-19	JYZ689	MPC-TISSCO	SITE-D	50 MM
25	TL-037	LOAD RING(SHEAR BOX)	HEICO	-	PR0187	LABTECH	GEO-LAB	2KN



## EQUIPMENT APPARATUS EXTERNAL CALIBRATION LIST

SL. No.	Equipment ID	Instrument	Manufacturer	Model	Serial No.	Calibrated By.	Location	Capacity
27	TL-044	DIGITAL CALIPER	VOGEL	S225	86021	MPC-TISSCO	MAN-OFC	200MM
29	TL-046	DIAL GAUGE	LINEAR	-	61812	BDH LAB	SITE-D	25 mm
30	TL-052	DIGITAL THERMOMETER	KANE MAY	KM330	800184	MPC-TISSCO	MASTER	-50 to 1300 °C
31	TL-053	MECHANICAL SHAKER	GFL	3017	-	MPC-TISSCO	CHEM.-LAB	20-300rpm
32	TL-057	FLEXURAL MACHINE	ELE	ADR 2000	1639-7-1130A	MPC-TISSCO	CONC-LAB	100 KN
33	TL-058	COMPRESSION MACHINE	ELE	ADR 2000	1796-8-1613	MPC-TISSCO	CONC-LAB	2000 KN
34	TL-059	COMPRESSION MACHINE	BESMAK	BC100	406	BDH LAB	SITE -D	2000 KN
35	TL-061	PRECISION BALANCE	RADWAG	PS 60000/C1	238394/08	LABTECH	SITE -D	6 KG
36	TL-063	NUCLEAR GAUGE	CPN	C-MC3	M341002260	PIONEER LAB	NUC - RM	-
38	TL-065	NUCLEAR GAUGE	HUMBOLDT	H-5001/EZ	H-4054	PIONEER LAB	NUC - RM	-
39	TL-066	NUCLEAR GAUGE	HUMBOLDT	H-5001/EZ	H-4111	PIONEER LAB	NUC - RM	-
40	TL-067	NUCLEAR GAUGE	HUMBOLDT	H-5001/EZ	H-5333	PIONEER LAB	NUC - RM	-
41	TL-068	NUCLEAR GAUGE	HUMBOLDT	H-5001/EZ	H-5334	PIONEER LAB	NUC - RM	-
42	TL-071	THERMOMETER (IN -OUT)	ETI	-	-	BDH LAB	CONC-LAB	-10 to +50 °C
43	TL-078	PRESSURE GAUGE	POWER TEAM	-	-	MPC-TISSCO	GEO-LAB	700 BAR
44	TL-079	ELECTRONIC BALANCE	CITIZEN	CTG-12H+	2701038015	MPC-TISSCO	SITE A	12 Kg
45	TL-082	THERMOMETER*(PEN TYPE)	ETI	THERMAPEN	E10450430	BDH LAB	RABI-REDCO	-49.9 TO 299.9 °C

## EQUIPMENT APPARATUS EXTERNAL CALIBRATION LIST

SL. No.	Equipment ID	Instrument	Manufacturer	Model	Serial No.	Calibrated By.	Location	Capacity
46	TL-083	THERMOMETER(PEN TYPE)	ETI	THERMAPEN	E10450410	BDH LAB	MAN OFC	-49.9 TO 299.9 °C
48	TL-089	OVEN	GEN LAB	SDO/225	10C239	LABTECH	SOIL-LAB	50°C to 180°C
50	TL-092	CENTRIFUGE EXTRACTOR	IMPACT	BM055	-	MPC-TISSCO	ASPH-LAB	3000 rpm
52	TL-096	SCALE STEEL	CMC	100cm	00722058	MPC-TISSCO	MASTER	0-100cm
53	TL-098	BALANCE	CITIZEN	CTB-150	2815024008	MPC-TISSCO	SITE-D	0-150 Kg
54	TL-099	DIAL GAUGE	LINEAR	-	88198	BDH LAB	SOIL-LAB	0-50mm
55	TL-100	CBR/MARSHALL UNIAXIAL	UATEST	UTS-SP-200	11/000183	MPC-TISSCO	ASPH-LAB	5 Ton
56	TL-101	COMPRESSION MACHINE	UATEST	UTC4420	11/000182	MPC-TISSCO	CONC-LAB	3000 kN
57	TL-102	DIGITAL PENETROMETER	UATEST	UTAS-0101	11/000186	MPC-TISSCO	SOIL-LAB	0-50mm
58	TL-104	DRYING OVEN	UATEST	UTG-1391	11/000188	LABTECH	CHEM.-LAB	300°C
59	TL-105	GAMMA SURVEY METER	S.E. Int - LND	Radiation Alert Monitor 4	70114	BNGESC	NUC - RM	-
60	TL-106	GAMMA SURVEY METER	S.E. Int - LND	Radiation Alert Monitor 4	70115	BNGESC	NUC - RM	-
61	TL-107	GAMMA SURVEY METER	S.E. Int - LND	Radiation Alert Monitor 4	70116	BNGESC	NUC - RM	-
62	TL-108	WATER BATH	BESMAK	48 SB	2008/10	MPC-TISSCO	ASPH-LAB	70 °C
63	TL-110	OVEN	GENLAB	SDO/225	118250	LABTECH	ASPH-LAB	30 -250°C
64	TL-111	BALANCE	CITIZEN	SSH94	261341/09	MPC-TISSCO	ASPH-LAB	20 KG

## EQUIPMENT APPARATUS EXTERNAL CALIBRATION LIST

SL. No.	Equipment ID	Instrument	Manufacturer	Model	Serial No.	Calibrated By.	Location	Capacity
70	TL-120/A	HYGRO THERMOMETER	ETI LTD	-	-	BDH LAB		-50 to +70 °C
72	TL-122	THERMOMETER(IN -OUT)			-	BDH LAB	CONC LAB	-50 to +70 °C
73	TL-124	HYGRO THERMOMETER	ETI LTD	-	-	BDH LAB	SITE-D	-50 to +70 °C
74	TL-126	VACCUM PRESSURE GAUGE	CALCON ITALY	-	-	MPC-TISSCO	SITE-D	0 TO-1BAR
75	TL-127	RCPT APPARATUS(RAPID CHLORIDE PERMEABILITY TEST)	SCI-TECH	SRCPT9C	SRCPT9C/11/015	MPC-TISSCO	SITE-D	60V
76	TL-128	DIGITAL CALIPER	BAKER	SDN20	C1006081049	MPC-TISSCO	MASTER	0-200 mm
77	TL-129	CENTRIFUGE EXTRACTOR	UTEST	-	11/000185	BDH LAB	SITE-A	3600rpm
78	TL-130	HYGRO THERMOMETER	ETI LTD	-	-	BDH LAB	ASPH-LAB	0 to +50 °C
79	TL-131	THERMOMETER	ETI LTD	-	-	BDH LAB	CHEM.-LAB	-10 to +50 °C
80	TL-133	HYGRO THERMOMETER	ETI LTD	-	-	BDH LAB	SITE-D	0 to +50 °C
81	TL-134	HYGRO THERMOMETER	ETI LTD	-	-	BDH LAB	SITE-D	-10 to +50 °C
83	TL-137	THERMOMETER	ETI LTD	810-155	-	BDH LAB	CONC-LAB	-10 to +50 °C
84	TL-139	HYGRO THERMOMETER	ETI LTD	810-155	-	BDH LAB	SOIL-LAB	-10 to +50 °C
85	TL-140	WATER PENETRATION GAUGE	WIKA	-	210630-1-22	MPC-TISSCO	CONC-LAB	10 BAR
86	TL-141	ISAT APPARATUS(INITIAL SURFACE ABSORPTION TEST)	-	-	-	MPC-TISSCO	CONC-LAB	-

## EQUIPMENT APPARATUS EXTERNAL CALIBRATION LIST

SL. No.	Equipment ID	Instrument	Manufacturer	Model	Serial No.	Calibrated By.	Location	Capacity
	TL-142	MANUAL PROCTOR RAMMER(BS COMPACTION RAMMER	IMPACT	-	-	MPC-TISSCO	SOIL-LAB	4.5KG
88	TL-143	AUTOMATTIC PROCTOR RAMMER(AUTOMATIC SOIL COMPACTOR	BESMAK	-	-	MPC-TISSCO	SITE-D	4.5KG
89	TL-144	TRIAXIAL COMPRESSION MACHINE W/ EXTENSOMETER	UTEST	UTC-SP-3000	11/000770	MPC-TISSCO	GEO-LAB	3000kN
90	TL-145	CBR MARSHALL UNIAXIAL MACHINE	UTEST	UTAS-00-0038	12/000423	MPC-TISSCO	SITE-A	50kN/25min
91	TL-146	COVER METER	PROCEQ	39120001	PS02-002-0454BO	MPC-TISSCO	QA/QC INS	180MM
92	TL-149	PARTICLE SLIDE GAUGE	-	-	-	MPC-TISSCO	SOIL-LAB	300 MM
93	TL-150	WATER FLOW METER	ELSTER	80 MM H4000	11W722165	MPC-TISSCO	GEO-LAB	-
96	TL-151	PRESSURE GAUGE	WIKA	EN837-1	1105381644	BDH LAB	CHEM.-LAB	160KPA
97	TL-154	SIEVE SHAKER	BESMAK	-	-	BDH LAB	SITE-D	-
98	TL-157	ELECTRONIC BALANCE	OHAUS	EB30	8032112023	LABTECH	STEEL LAB	30 KG
99	TL-158	CASAGRANDE(ASTM)	ALFA	T-030	081210/17	MPC-TISSCO	SITE-D	-
100	TL-159	CASAGRANDE(BS)	MATEST	-	-	BDH LAB	SOIL-LAB	-
101	TL-160	DIGITAL VAC. PRESSURE GAUGE(DIGITAL MANOMETER)	HUMBOLTD	9210	4698	MPC-TISSCO	ASPH-LAB	0-1000mm HG
102	TL-161	VACCUM PUMP PRESSURE GAUGE	WIKA	-	-	MPC-TISSCO	ASPH-LAB	0 TO -30 in HG

## EQUIPMENT APPARATUS EXTERNAL CALIBRATION LIST

SL. No.	Equipment ID	Instrument	Manufacturer	Model	Serial No.	Calibrated By.	Location	Capacity
104	TL-164	DIGITAL THERMOMETER(PEN TYPE)	ETI LTD	THERMAPEN	E11320224	BDH LAB	ASPH-LAB	0 TO 250 °C
105	TL-165	DIGITAL THERMOMETER (PEN TYPE)	ETI LTD	THERMAPEN	E12210315	BDH LAB	CONC-LAB	0 TO 250 °C
106	TL-166	DIGITAL THERMOMETER (PEN TYPE)	TESTO	TESTO 104	35714369	BDH LAB	SITE-D	0 TO 200 °C
107	TL-167	DIGITAL THERMOMETER(PEN TYPE)	TESTO	TESTO 104	-	BDH LAB	MAN OFC	0 TO 200 °C
108	TL-168	DIGITAL THERMOMETER(PEN TYPE)	TESTO	TESTO 104	35714887	BDH LAB	QA/QC	0 TO 200 °C
110	TL-170	DIGITAL VAC. PRESSURE GAUGE	HUMBOLTD	9210	4895	MPC-TISSCO	SITE A	0-1000mm HG
111	TL -171	STEEL STRAIGHT EDGE	-	-	-	MPC-TISSCO	CONC-LAB	300 MM
112	TL -172	STEEL STRAIGHT EDGE	-	-	-	MPC-TISSCO	MAN-OFC	300 MM
114	TL-174	UTM STEEL TESTING MACHINE	SERVO	TUC-C-1000	2013/08	MPC-TISSCO	STEEL LAB	1000KN
116	TL-176	PULL OFF TESTER	PROCEQ	DYNA Z16 LEO1	33790	MPC-TISSCO	QA/QC	100 bar
117	TL-177	FEELER GAUGE	KD TOOLS	-	2274	MPC-TISSCO	MAN-OFC	0.04-1.0mm
119	TL-178/A	FEELER GAUGE	INSIZE	4062-17	2304140552	MPC-TISSCO	CONC-LAB	0.02-1.00mm
120	TL-179	DIAL GAUGE(PLT)	BORLETTI	-	-	BDH LAB	SOIL LAB	25MM
121	TL-180	LOAD RING (PROVING RING)	MATEST	S370-09	S370-09/AC/0024	BDH LAB	GEO-LAB	40 KN
122	TL-181	STOP WATCH	ETI	-	-	BDH LAB	ASPH-LAB	99min 59 sec

## EQUIPMENT APPARATUS EXTERNAL CALIBRATION LIST

SL. No.	Equipment ID	Instrument	Manufacturer	Model	Serial No.	Calibrated By.	Location	Capacity
123	TL-182	STOP WATCH	ETI	-	-	BDH LAB		99min 59 sec
124	TL-183	DIGITAL CALIPER	BAKER	SDN30	CK02541	MPC-TISSCO	ASPH-LAB	300MM
125	TL-184	DIGITAL CALIPER	BAKER	SDN30	CK302759	MPC-TISSCO	SITE-D	300MM
126	TL-185	COD DIGESTER	HACH LANGE	LTG077	1260174	MPC-TISSCO	CHEM.-LAB	-
128	TL-189	SOUND LEVEL METER	LUTRON	SL-4001	1.180275	MPC-TISSCO	QHSE	130dB
129	TL-190	COMPRESSION MACHINE	ELE	ADR2000	1796-8-1665	MPC-TISSCO	CONC-LAB	2000KN
130	TL-191	MUFFLE FURNACE	NABERTHERM	B180	312474	MPC-TISSCO	CHEM.-LAB	0-1300°C
131	TL-192	DIGITAL THERMOMETER(K TYPE)	KANE MAY	KM330	800724	BDH LAB	QHSE	0 to 250 °C
132	TL-193	STOP WATCH	ETI	-	-	BDH LAB	CHEM.-LAB	00Min:00Sec to 99Min:59Sec
135	TL-196	STOP WATCH	ETI	806-105	-	BDH LAB	GEOTECH	00Min:00Sec to 99Min:59Sec
136	TL-197	STOP WATCH	ETI	-	-	BDH LAB	GEOTECH	00Min:00Sec to 99Min:59Sec
137	TL-198	TRAVELLING BEAM	IMPACT	625	335	MPC-TISSCO	GEO-LAB	-25MM TO 25MM
138	TL-199	OVEN	UTEST	UTD-1305	14/001986	BDH LAB	SITE-D	SET POINT110°C
139	TL-200	GLASS THERMOMETER	BRANNAN	ASTM 11C-86	0271349	MPC-TISSCO	CHEM.-LAB	400°C
140	TL-201	RCPT APPARATUS(RAPID CHLORIDE PERMEABILITY)	SCI-TECH	-	-	BDH LAB	CHEM.-LAB	60.0V
141	TL-202	VACUUM GAUGE	CALCON	-	-	MPC-TISSCO	CHEM.-LAB	0 TO -1 bar

## EQUIPMENT APPARATUS EXTERNAL CALIBRATION LIST

SL. No.	Equipment ID	Instrument	Manufacturer	Model	Serial No.	Calibrated By.	Location	Capacity
142	TL-203	CHLORIDE MIGRATION APPARATUS	SCI-TECH	S-CMT-3C	-	MPC-TISSCO	CHEM.-LAB	60V
143	TL-204	SAND EQUIVALENT SHAKER	UTEST	UTA-0510	14/001977	BDH LAB	SITE-D	-
144	TL-205	SAND EQUIVALENT SHAKER	UTEST	UTA-0510	14/001976	BDH LAB	SOIL LAB	-
145	TL-206	PROCTOR RAMMER (COMPACTOR)	UTEST	-	-	MPC-TISSCO	SOIL LAB	-
146	TL-207	PROCTOR RAMMER (COMPACTOR)	UTEST	-	-	MPC-TISSCO	SOIL LAB	-
147	TL-208	ISAT APPARATUS (INITIAL SURFACE ABSORPTION TEST)	SCITEST	BS-1881	-	MPC-TISSCO	CONC-LAB	-
148	TL-209	DIGITAL BALANCE	DIKOMSAN	CWT22-U	70522	BDH LAB	CONC-LAB	30Kg
149	TL-210	DIGITAL BALANCE	DIKOMSAN	CWT22-U	70546	BDH LAB	SITE-D	30Kg
150	TL-211	DIGITAL BALANCE	DIKOMSAN	CWT22-U	70547	BDH LAB	SITE-D	30Kg
151	TL-212	DIGITAL BALANCE	DIKOMSAN	CWT22-U	70533	MPC-TISSCO	SOIL-LAB	30Kg
152	TL-214	DIGITAL BALANCE	RADWAG	PS 750.R1	419986/14	LABTECH	QC	750g
153	TL-215	DIGITAL BALANCE	DIKOMSAN	CWT-22	70534	LABTECH	SITE-D (MASTER)	30KG
154	TL-216	OVEN	UTEST	UTD-1305	14/001985	BDH LAB	SITE-D	110 <sup>o</sup> C
155	TL-217	WATER BATH	UTEST	UTGE-4005	14/001990	LABTECH		90 <sup>o</sup> C
156	TL-218	PROCTOR RAMMER	UTEST	-	-	MPC-TISSCO		-
157	TL-220	BALANCE	RADWAG	PS 750.R1	437661	BDH LAB	SITE-D	750g

## EQUIPMENT APPARATUS EXTERNAL CALIBRATION LIST

SL. No.	Equipment ID	Instrument	Manufacturer	Model	Serial No.	Calibrated By.	Location	Capacity
158	TL-221	AUTOMATIC SOIL COMPACTOR	UTEST	UTS-0626	14/0001974	BDH LAB	SOIL-LAB	-
159	TL-222	AUTOMATIC SOIL COMPACTOR	IMPACT	-	-	BDH LAB	SOIL-LAB	-
160	TL-223	CONE PENETROMETER	UTEST	UTS-0180	14/001971	BDH LAB	SITE-D	0-50mm
162	TL-225	DIGITAL THERMOMETER(PEN TYPE)	ETI	TP 3001	-	BDH LAB	CONC-LAB	0-250
163	TL-226	DIGITAL THERMOMETER(PEN TYPE)	-	TP3001	-	BDH LAB	SITE-A	0 to 200 °C
164	TL-227	DIGITAL THERMOMETER(PEN TYPE)	ETI	TP101	-	BDH LAB	SITE-D	0 to 250 °C
165	TL-228	HYGROTHERMOMETER(PEN TYPE)	-	TP3001	-	BDH LAB	CHEM.-LAB	0 to 200 °C
166	TL-229	DIGITAL THERMOMETER(PEN TYPE)	-	TP3001	-	BDH LAB	SITE-D	0 to 200 °C
167	TL-230	ENGINEERS SQUARE	STANLEY	-	-	LABTECH	SPARE	0-300mm
168	TL-231	ENGINEERS SQUARE	STANLEY	-	-	LABTECH	CONC-LAB	0-300mm
169	TL-232	ENGINEERS SQUARE	STANLEY	-	-	LABTECH	MASTER	0-300mm
170	TL-233	ENGINEERS SQUARE	STANLEY	-	-	LABTECH	SITE-D	0-300mm
171	TL-234-1	STANDARD WEIGHT-5K	-	M1	-	MPC-TISSCO	QA/QC	5000g
172	TL-234-2	STANDARD WEIGHT-5K	-	M1	-	MPC-TISSCO	QA/QC	5000g
173	TL-234-3	STANDARD WEIGHT-5K	-	M1	-	MPC-TISSCO	QA/QC	5000g
174	TL-234-4	STANDARD WEIGHT-5K	-	M1	-	MPC-TISSCO	QA/QC	5000g



## EQUIPMENT APPARATUS EXTERNAL CALIBRATION LIST

SL. No.	Equipment ID	Instrument	Manufacturer	Model	Serial No.	Calibrated By.	Location	Capacity
175	TL-234-5	STANDARD WEIGHT-5K	-	M1	-	MPC-TISSCO	QA/QC	5000g
176	TL-235	STANDARD WEIGHT-2K	-	M1	-	MPC-TISSCO	QA/QC	2000g
177	TL-236-1	STANDARD WEIGHT-1K	-	M1	-	MPC-TISSCO	QA/QC	1000g
178	TL-236-2	STANDARD WEIGHT-1K	-	M1	-	MPC-TISSCO	QA/QC	1000g
179	TL-237-1	STANDARD WEIGHT-500G	-	M1	-	MPC-TISSCO	QA/QC	500G
180	TL-237-2	STANDARD WEIGHT-500G	-	M1	-	MPC-TISSCO	QA/QC	500G
181	TL-238	DIAL GAUGE (SHEAR BOX)	ELE	FM-8	M5501	BDH LAB	QA/QC	0-12mm
182	TL-239	HYGRO THERMOMETER	ETI	810-155	-	BDH LAB	SITE-D	-10 to +50 °C
183	TL-240	HYGRO THERMOMETER	ETI	810-155	-	BDH LAB	CONC-LAB	-10 to +50 °C
184	TL-241	HYGRO THERMOMETER	ETI	810-155	-	BDH LAB	CONCLAB	-10 to +50 °C
185	TL-242	HYGRO THERMOMETER	ETI	810-155	-	BDH LAB	SITE-D	-10 to +50 °C
186	TL-243	HYGRO THERMOMETER	ETI	810-155	-	BDH LAB	SITE-D	-10 to +50 °C
187	TL-244	HYGRO THERMOMETER	ETI	-	-	BDH LAB	SITE-D	-10 to +50 °C
188	TL-245	HYGRO THERMOMETER	ETI	810-155	-	BDH LAB	SITE-D	-10 to +50 °C
189	TL-246	HYGRO THERMOMETER	ETI	-	-	BDH LAB	SITE-D	-10 to +50 °C
191	TL-248	DIGITAL CALIPER	GENERAL TOOLS & INSTRUMENTS		81001050	MPC-TISSCO	CONC-LAB	0-300mm
192	TL-249	AIR METER	GILSON	800-444-1508	-	MPC-TISSCO	CONC-LAB	-

## EQUIPMENT APPARATUS EXTERNAL CALIBRATION LIST

SL. No.	Equipment ID	Instrument	Manufacturer	Model	Serial No.	Calibrated By.	Location	Capacity
193	TL-250	STOP WATCH/TIMER	ETI	806-155	-	BDH LAB	SITE-D	00Min:00Sec to 99Min:59Sec
194	TL-251	STOPWATCH/TIMER	ETI	806-155	-	BDH LAB	SITE-D	00Min:00Sec to 99Min:59Sec
195	TL-252	STOP WATCH	ETI	-	-	BDH LAB	SOIL-LAB	99min 59 sec
196	TL-252-A	STOP WATCH	ELECTRONIC	-	-	LABTECH	CHEM LAB	O S TO 19H 59 MIN
197	TL-255	STRAIGHT EDGE	-	-	-	MPC-TISSCO	SITE-D	300mm
198	TL-256/A	STRAIGHT EDGE	MOORE & WRIGHT	900-05	-	MPC-TISSCO	CONC-LAB	150mm
199	TL-257	FEELER GAUGE	SHEFFIELD	387M	-	MPC-TISSCO	SITE-D	0.03-0.50mm
200	TL-258	DIAL GAUGE	BAKER	K08	XLE4697	BDH LAB	GEOTECH	0-25mm
202	TL-260	DIAL GAUGE	BAKER	K08	-	BDH LAB	SPARE	0-25mm
203	TL-261	DIAL GAUGE	BAKER	K08	-	BDH LAB	GEOTECH	0-25mm
204	TL-262	DIAL GAUGE	BAKER	K08	XLE4994	BDH LAB	SITE-D	25mm
205	TL-263	DYNAMIC SHEAR RHEOMETER	MALVERN	R008000	MAL1110720	MPC-TISSCO	ASPH-LAB	-
206	TL-264	RTFO(ROLLING THIN FILM OVEN)	COOPER	CS 325 B	1221-14	MPC-TISSCO	ASPH-LAB	-
207	TL-265	PRESSURE AGING VESSEL	PRENTEX ALLOY FABRICATORS	-	9395793	MPC-TISSCO	ASPH-LAB	-
208	TL-266	VACUUM DEGASSING OVEN	ATS	-	-	MPC-TISSCO	ASPH-LAB	-
209	TL-267	BENDING BEAM RHEOMETER	ATS	-	15-12845	MPC-TISSCO	ASPH-LAB	-
210	TL-268	DUCTILOMETER	TEST INTERNATIONAL	TAS-0430	15/000127	MPC-TISSCO	ASPH-LAB	-

## EQUIPMENT APPARATUS EXTERNAL CALIBRATION LIST

SL. No.	Equipment ID	Instrument	Manufacturer	Model	Serial No.	Calibrated By.	Location	Capacity
211	TL-270	ROTATIONAL VISCOMETER	BROOKFIELD	DV2TRVT J0	8570702	LABTECH	ASPH-LAB	-
213	TL-272	REBOUND HAMMER	-	-	1H0517	MPC-TISSCO	QA/QC INS	-
215	TL-274	PRESSURE GAUGE	WIKA	-	-	MPC-TISSCO	GEOTECH	0-21 bar
216	TL-275	DIAL GAUGE	CONTROL	-	-	BDH LAB	SPARE	10mm
217	TL-276	COMPRESSION MACHINE	BESMAK	SEMATRON	884	BDH LAB	CONC-LAB	3000kN
218	TL-277	BALANCE	OHAUS	AV264	B404258535	LABTECH	CHEM.-LAB	260g
219	TL-279	DIAL GAUGE(SHEAR BOX)	ELE	FM-8	TCC 766	MPC-TISSCO	GEOTECH	12mm
220	TL-280	HYGRO THERMOMETER( IN -OUT)	E.T.I. LTD.	-	-	BDH LAB	SITE-D	-50 to +70 °C
221	TL-281	HYGRO THERMOMETER ( OUT)	E.T.I. LTD.	-	-	BDH LAB	SITE-D	-50 to +70 °C
222	TL-282	THERMOMETER	-	TP3001	-	BDH LAB	SITE-D	50 to +300 °C
225	TL-285	INFRARED THERMOMETER	E.T.I. LTD.	814-080	2014091936	MPC-TISSCO	MAN-OFC	-50 to +330 °C
227	TL-287	SURFACE THERMOMETR	EXTECH INST.	392052	-	MPC-TISSCO	QA/QC	-50 to 300 °C
228	TL-288	SURFACE THERMOMETER	EXTECH INST.	392052	-	MPC-TISSCO	ASPH-LAB	-50 to 300 °C
229	TL-289	CORE DRILLING MACHINE	-	DTH-50	003	MPC-TISSCO	GEOTECH	-
230	TL-290	CORE DRILLING MACHINE	-	DTH-50	004	MPC-TISSCO	GEOTECH	-
232	TL-292	HYGRO THERMOMETER( IN -OUT)	E.T.I. LTD.	-	-	LABTECH	SITE-D	-49.9 to +69.9 °C
233	TL-293	HYGRO THERMOMETER( IN -OUT)	E.T.I. LTD.	-	-	LABTECH	SITE-D	-49.9 to +69.9 °C

## EQUIPMENT APPARATUS EXTERNAL CALIBRATION LIST

SL. No.	Equipment ID	Instrument	Manufacturer	Model	Serial No.	Calibrated By.	Location	Capacity
234	TL-294	HYGRO THERMOMETER( IN -OUT)	E.T.I. LTD.		-	LABTECH	CHEM.-LAB	-49.9 to +69.9 °C
236	TL-296	HYGRO THERMOMETER( IN -OUT)				BDH LAB	CONC-LAB	-50 to +70 °C
237	TL-297	HYGRO THERMOMETER( IN -OUT)	E.T.I. LTD.	-	-	BDH LAB	SITE-D	-50 to +70 °C
238	TL-298	BALANCE	DIKOMSAN	CWT22-U	70544	LABTECH	SOIL LAB	30Kg.
239	TL-299	RTFO(ROLLING THIN FILM OVEN	TEST INTERNATIONAL	TAS-0145	15/000129	LABTECH	ASPH-LAB	200 °C
240	TL-300	DIGITAL CALIPER	BAKER	SDN20	C1308301150	LABTECH	CHEM.-LAB	0-200mm
241	TL-301	ENGINEERS SCALE(MASTER)	EGA MASTER	-	65836-11.14	MPC-TISSCO	SITE-D	0-60cm
242	TL-303	OVEN	UTEST	UTD-1305	14/001989	LABTECH	CONC-LAB	40,100,110,150,200
243	TL-304	STANDARD WEIGHT - 500g-1mg	-	F2 CLASS	689	MPC-TISSCO	CHEM.-LAB	1mg-500gm
244	TL-305	AUTOMATIC CEMENT MIXER	UTEST	UTCM-0006	-	MPC-TISSCO	CONC-LAB	N1=140,N2=285
245	TL-306	BLUE METHYLENE TEST SET (IMPELLER AGITATOR)	MATEST	S157-01	S157-01/AE/0033	MPC-TISSCO	CHEM.-LAB	-
247	TL-308	PRESSURE GAUGE	ROTOTHERM	-	9803220066	MPC-TISSCO	GEOTECH	0-205 bar
248	TL-309	STANDARD WEIGHT	-	-	-	MPC-TISSCO	SITE-D	50g
249	TL-310	STANDARD WEIGHT	-	-	-	MPC-TISSCO	SITE-D	100g
250	TL-311	PRESSURE GAUGE	WIKA	-	-	MPC-TISSCO	GEOTECH	0-60 bar
251	TL-312	WATER PENETRATION GAUGE	WIKA	-	90250192-31-10	MPC-TISSCO	CONC-LAB	0-10 bar
252	TL-313	ELECTRONIC BALANCE	OHAUS CRPORATION	T23P	B000142YES	MPC-TISSCO	SOIL-LAB	150Kg.

## EQUIPMENT APPARATUS EXTERNAL CALIBRATION LIST

SL. No.	Equipment ID	Instrument	Manufacturer	Model	Serial No.	Calibrated By.	Location	Capacity
253	TL-314	DIGITAL THERMOMETER	-	TP3001	-	MPC-TISSCO	MAN-OFC	-50 TO 300 °C
254	TL-315	DIGITAL THERMOMETER	-	TP3001	-	MPC-TISSCO	SITE A	-50 TO 300 °C
256	TL-316-A	GLASS THERMOMETER	BRANNAN	ASTM-SC-86	1226221	MPC-TISSCO	ASPH-LAB	-2 TO 80 °C
257	TL-317	OVEN	U TEST	UTD-1305	14/001988	MPC-TISSCO	SOIL-LAB	250 °C
258	TL-318	CENTRIFUGE EXTRACTOR	U TEST	UTAS-0035	14/001982	MPC-TISSCO	ASPH-LAB	3600 rpm
259	TL-319	TORQUE WRENCH	CDI Torque products	4004MFRMH	1111116242	MPC-TISSCO	SUPERVISOR	85-525 N-m
260	TL-320	COATING THICKNESS GAUGE	ELCOMETER	456B	SD16258	MPC-TISSCO	QA/QC INS.	1607F, 1600N
261	TL-321	CASAGRANDE APPARATUS (ASTM)	-	TMC05	-	MPC-TISSCO	SOIL-LAB	-
263	TL-323	HYGRO THERMOMETER( IN -OUT)	ETI	-	-	BDH LAB	SITE-D	0-50 °C
264	TL-324	HYGRO THERMOMETER( IN -OUT)	ETI	-	-	BDH LAB	SITE-D	0-50 °C
265	TL-325	HYGRO THERMOMETER( IN -OUT)	ETI	-	-	BDH LAB	CHEM-LAB	-50 TO 70 °C
266	TL-326	HYGRO THERMOMETER( IN -OUT)	ETI	-	-	BDH LAB	CHEM-LAB	-50 TO 70 °C
267	TL-327	FOIL COATING THICKNESS PLATE	ELCOMETER	-	-	TISSCO	QA/QC	
268	TL-330	DIGITAL THERMOMETER	-	TP3001	-	BDH LAB	SITE-D	25-200 °C
269	TL-336	CORING MACHINE	TYROLIT HYDROSTRESS	DME-32 mwp	963967	VELOSI		55-350mm CORE
270	TL-337	POWER GENERATOR FOR CORING MACHINE	CUMMINS	P-500e	-	VELOSI		8.3amp
271	TL-338	REFRIGERATOR	SAMSUNG	SG06BCSWQL/BLS	04154AFP800473H	MPC-TISSCO	CHEM. LAB	2-8 Deg. Celcius

## EQUIPMENT APPARATUS EXTERNAL CALIBRATION LIST

SL. No.	Equipment ID	Instrument	Manufacturer	Model	Serial No.	Calibrated By.	Location	Capacity
272	TL-339	150KG BALANCE	NAGATA	FW303R	C110659	LABTECH	CONC-LAB	150 KG.
273	TL-340	MARSHAL STABILITY MACHINE					GEOTECH	
274	TL-341	REFRIGERATOR FREEZER	SHARP	SJ-14T-J2G	D23761	MPC-TISSCO	CHEM-LAB	148 LITER
275	TL-342	DIAL GAUGE	BAKER	K02	ACF 739	BDH LAB	SOIL-LAB	0-10mm
276	TL-343	DIAL GAUGE	BAKER	K02	ACF 751	BDH LAB	SOIL-LAB	0-10mm
277	TL-344	DIAL GAUGE	BAKER	K02	ACF 759	BDH LAB	MAN OFC	0-10mm
278	TL-349	AUTOCLAVE	DAIHAN SCIENTIFIC	MAXTERILE 47	10001361523001	LABTECH	CHEM LAB	
279	TL-350	ELECTRONIC BALANCE	CAS PR-C	PR- 300	160450856	LABTECH	QA/QC	30 KG
280	TL-351	THERMOMETER IN OUT DIGITAL	ETI	-	-	LABTECH	SITE D	-19.9 TO 69.9 °C
281	TL-352	THERMOMETER IN OUT DIGITAL	ETI	-	-	LABTECH	SITE D	-19.9 TO 69.9 °C
282	TL-353	DIGITAL THERMOMETER(FOLD AWAY PENETRATION TYPE	TESTO	TESTO 104	35750861	LABTECH	SITE D	-50 TO 250 °C
283	TL-354	DIGITAL THERMOMETER(FOLD AWAY PENETRATION TYPE	TESTO	TESTO 104	35755111	LABTECH	MAN OFC	-50 TO 250 °C
284	TL-355	HYGROTHERMOMETER	BRANNAN	-	-	LABTECH	SITE D	-50 TO 70 °C
285	TL-356	HYGROTHERMOMETER	BRANNAN	-	-	LABTECH	MAN OFC	-50 TO 70 °C
286	TL -357	ELECTRONIC BALANCE	CAS PR-C	PR- 300	160450858	TISSCO	SITE D	30kg
287	TL-358	THERMOMETER IN OUT DIGITAL	ETI	-	LCS160276	LABTECH	SITE D	-19.9 TO 69.9 °C



## EQUIPMENT APPARATUS EXTERNAL CALIBRATION LIST

SL. No.	Equipment ID	Instrument	Manufacturer	Model	Serial No.	Calibrated By.	Location	Capacity
288	TL-359	THERMOMETER IN OUT DIGITAL	ETI	-	LCS160277	LABTECH	SITE D	-19.9 TO 69.9 °C
289	TL-360	THERMOMETER IN OUT DIGITAL	ETI	-	LCS160278	LABTECH	MAN OFC	-19.9 TO 69.9 °C
290	TL-361	HYGROTHERMOMETER	BRANNAN	-	LCS160279	LABTECH	MAN OFC	-50 TO 70 °C
291	TL-362	HYGROTHERMOMETER	BRANNAN	-	LCS160280	LABTECH	MAN OFC	-50 TO 70 °C
292	TL-363	HYGROTHERMOMETER	BRANNAN	-	LCS160281	LABTECH	MAN OFC	-50 TO 70 °C
293	TL-364	BALANCE	OHAUS	PA2102	B525080383			

## **7.TESTING SERVICES**



## FIELD AND LABORATORY TESTING SERVICES

SI. No.	TESTING SERVICES	STANDARDS
<b>A</b>	<b>CONCRETE</b>	
1	Compressive Strength of moulded cubes including weight, size & density	BS EN 12390-3 & BS EN 12390-7
2	Compressive Strength of Concrete Cylinders	ASTM C 39
3	Flexural Strength concrete beams	ASTM C 78
4	Concrete Coring	BS EN12504-1
5	Compressive strength, density and visual examination and preparation of drilled concrete cores	BS EN12504-1
6	Compressive strength of precast concrete blocks including weight and dimension	BS 6073
7	Water absorption of concrete specimen	BS 1881 Part 122
8	Concrete Mix Design and Laboratory Trial Mixes	BS 1881 : Part : 125
8.1	Design of concrete mix for given materials for each individual trial mix calculated including testing on raw materials	
	Laboratory trial mix using materials supplied by client to our laboratory but not including design	
	a) Mixing	BS 1881 Part 125
8.2	b) Making cubes & Compressive Test (6 per mix)	
9	Slump Test and Temperature	BS EN 12350-2
10	Sampling and casting of concrete cubes 150 mm size	BS EN 12350-1 & BS EN 12390 -2
11	Measurement of Tensile Splitting Strength and Water Absorption of Paving Blocks	BS EN 1338
12	Slip/Skid Resistance Value of Paving Blocks	BS EN 1338
13	Bending Strength & Water Absorption of Kerb Stone	BS EN 1340
14	Ultra-sonic Pulse Velocity Survey on Concrete Structures	
15	Initial Surface Absorption Test [ISAT]	BS 1881:208
16	Water Permeability Test on Concrete	DIN 1048
17	Rebound [Schmidt] Hammer Test	BS 1881:202
18	Concrete Inspection and Stability Analysis	
19	Concrete Repairs by Nippel Grouting	
<b>B</b>	<b>SOIL – SUB GRADE / SUB BASE</b>	
1	Moisture content	BS 1377 - 2
2	Atterberg Limits	BS 1377 - 2 & ASTM - D 4318
3	Sieve Analysis	BS 1377 - 2
4	Sedimentation Analysis	BS 1377 - 2
5	Dry Density and Moisture Content Relationship	BS 1377 - 4
6	California Bearing Ratio (CBR)	BS 1377 - 4
7	Sand Equivalent Value	ASTM D 2419 / BS EN 933-8
8	Particle Density & water Absorption	BS 1377 -2 & BS EN 1097-6
9	Bulk Density	BS 1377-2 & BS EN 1097-3
<b>C</b>	<b>AGGREGATES</b>	

## FIELD AND LABORATORY TESTING SERVICES

1	Moisture content	BS 812-109
2	Sieve Analysis	BS 812 - 103.1 & BS EN 933-1
3	Material Finer Than 0.075 mm	BS 812- 103.1(Wet Sieve)
4	Clay, Silt and Dust content in fine and coarse aggregates	ASTM C 117
5	Flakiness Index	BS 812-105.1
6	Elongation Index	BS 812-105.2
7	Bulk Density (Unit Weight)	ASTM C-29 /C-29 M -97
8	Particle Density & Water Absorption	BS 812-2
9	Shell Content [Visual Inspection]	BS 812-106
10	Aggregate Crushing Value [Dry Condition]	BS 812-110
11	Fractured Face of Aggregate	ASTM D-5821
12	Aggregate Impact Value	BS 812-112
13	Ten Percent Fines Value [Dry & Soaked Condition]	BS 812-111
14	Los Angeles Abrasion Value	ASTM C 131/ C-535
15	Soundness of aggregate	ASTM C 88
16	Immersed Rotational Test	CML Method 1-97
17	Clay Lumps and Friable Particles	ASTM C 142
18	Drying Shrinkage of aggregate	BS EN 1367-4
<b>D</b>	<b>REINFORCEMENT</b>	
1	Tensile Yield & Elongation	
2	Bend & Re-bend	
3	Ultimate Load Test	
4	PT STRAND , WIRE COUPLER	
5	CHEMICAL ANALYSIS FOR REINFORCEMENT	
<b>E</b>	<b>TILES AND MARBLES/STONES</b>	
1	Water Absorption	ASTM C 97
2	Density	ASTM C 97
3	Modulus Rupture	ASTM C 99
4	Compressive Strength	ASTM C 170
5	Transverse Strength	BS 4131
6	Impact Resistance Test of Cable tiles	BS 2484
<b>F</b>	<b>BITUMINOUS MIXTURES</b>	
1	Drilling of Bituminous Core	BS EN 12697-27
2	Density & Thickness of drilled bituminous core	BS EN 12697-6 & 12697-36
3	Bitumen Extraction and Aggregate grading	BS EN 12697-1 & 12697-2
4	Marshall Characteristics	BS 598
5	Marshall Mix Design	BS 598
6	Penetration of Bitumen	BS EN 1426; BS 2000-49
7	Softening Points of Bitumen	BS EN 1427; BS 2000-58
8	Pavement studies	
<b>G</b>	<b>CHEMICAL ANALYSIS</b>	
1	Sulphate & Chloride Contents –	
1.1	- Soil	BS 1377-3



## FIELD AND LABORATORY TESTING SERVICES

1.2	- Concrete	BS 1881 Part 124, BS 812-117 & 118, BS EN 1744
1.3	- Aggregate	
2	pH Value of Soil	BS 1377 Part 3
3	Organic Content	
3.1	- Aggregate	ASTM C 40
3.2	- Soil	BS 1377 Part 3
4	Carbonate Content of Soil	BS 1377 Part 3
5	Methylene Blue Test for Fine Aggregates	BS EN 933
6	Chemical Analysis of Water for Construction Purposes	
	- pH, Chloride, Sulphate, Bicarbonate, TDS	BS 1377 Part 3
7	Chemical Analysis of Potable Water	APHA
8	Chemical Analysis of Cement	BS EN 196-2
9	Physical Analysis of Cement	BS EN 196-1
10	Microbiological Analysis of Water	
10.1	- Total Bacterial count [TBC], Total Coliform & E-Coli, Biological Oxygen Demand [BOD] & Chemical Oxygen Demand [COD]	
11	Heavy Metals	
11.1	-Cadmium, Chromium [Tetraivalent & Total], Copper, Lead, Nickel & Zinc	Spectrophotometer Analysis
12	Hydrocarbon Analysis	
12.1	- Hydrocarbons [Oil & Grease]	
13	Chemical Analysis of Low Alloy Steel and Stainless Steel (C, P, S, N, Cu, CEV etc. )	Optical Emission Spectrometer
14	Total Organic Carbon of Water and Soil	APHA 5310 B
15	Total Nitrogen of Water	ASTM 5176
16	Metal Analysis of Water and Soil Samples (Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mn, Mo, Ni, P, Se, Sr, Tl, Sn, Ti, V, Zn, Al, Ba, B, K, Si, Ag, Na)	APHA 3120 B
17	Volatile Organic Compounds in Soil and Water	APHA 6200
18	Semi-Volatile Organic Compounds in Soil and Water	EPA 8270
19	GRO & DRO of Soil and Water	EPA 8270
20	Chemical Analysis of Admixture	BS EN
21	Chemical Analysis of Micro silica & Fly Ash	ASTM
22	Resistance to Chemical and Staining of Tiles	ASTM
<b>H</b>	<b><u>FIELD TESTING</u></b>	
1	In – Situ Density Test By Sand Replacement	BS 1377 Part 9
2	In – Situ Density Test By Nuclear Density Gauge	BS 1377 Part 9
3	Plate Load Test	BS 1377 Part 9 /ASTM C 1196
4	In- Situ CBR Test	
5	Pull out/ Pull Off Test	
6	Rebound Hammer Test	



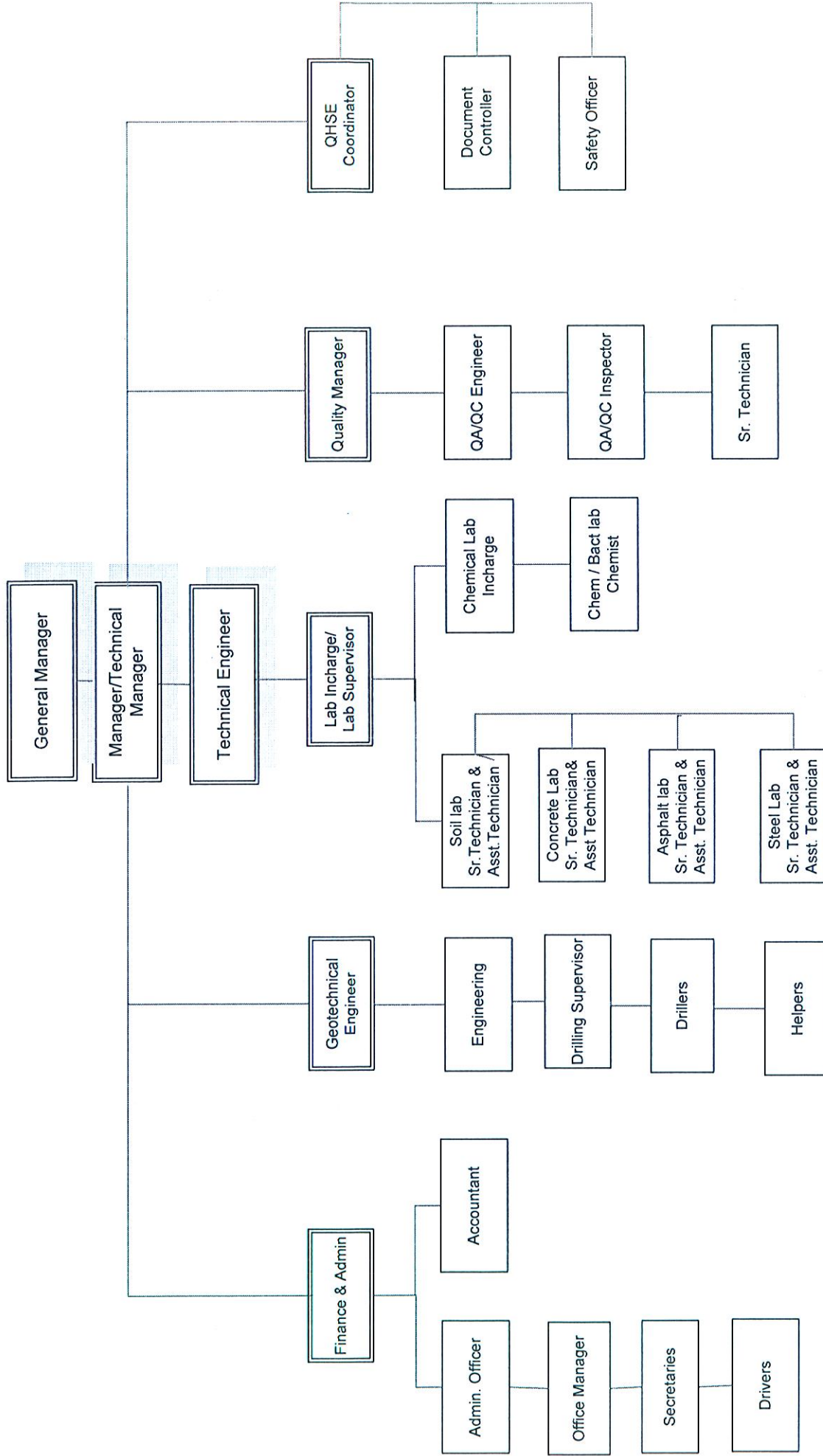
## FIELD AND LABORATORY TESTING SERVICES

<b>I</b>	<b>GEOTECHNICAL ENGINEERING , GEOPHYSICAL SERVICES</b>	
1	<b>SOIL / GROUND INVESTIGATION</b>	
1.1	Ground / Site Investigation by using Q, W and T2 Type Core drilling tools in P, H,N & 101 size including;	
1.2	- In-Situ Testing	
1.3	[SPT, CPT, Permeability Test, Piezometer installation & Monitoring, CBR, Plate Load Test]	
1.4	- Water Pressure Testing	
1.5	-Bulk / Disturbed / Undisturbed Sampling	BS 5930
1.6	- Pump Testing	
1.7	- Shear Test,	
1.8	- UCS on rock cores	
1.9	- Point Load Index Test	
1.10	- Triaxial Compressive Strength [Drained & Undrained]	
1.11	- Engineering report	
<b>J</b>	<b>GEOPHYSICAL SERVICES</b>	
1	Seismic Surveying [MASW]	
2	Electrical Resistivity Surveying	
3	Ground Penetration Rader (GPR)	
<b>K</b>	<b>SLOPE STABILITY ANALYSIS</b>	
1	Slope Stability Analysis and Recommendations	
<b>L</b>	<b>DRILLING SERVICES</b>	
1	Drilling of Soak Away Boreholes	
2	Drilling of Earthing Boreholes	
3	Drilling of Cavity Probing Boreholes	
4	Drilling of Dewatering Wells	
5	Groundwater Monitoring Wells	
6	Larger Diameter Drilling Service up to 20 " [500 mm] diameter Bore Holes/Wells	
7	Horizontal, Vertical & Inclined Anchor Holes	
<b>M</b>	<b>SPECIALIZED JOBS</b>	
1	<b>PRESSURE GROUTING</b>	
1.1	Pressure Grouting of underground cavities up to 50 Bar	
1.2	Rock Anchors & Rock Bolts Grouting	
<b>N</b>	<b>SLOPE STABILITY WORKS</b>	
1	Slope Stability Analysis and Recommendations	
2	Slope Stabilization Works	
	-Rock Anchoring & Bolting & Grouting	
<b>O</b>	<b>Concrete Structure Repairs</b>	
1	Concrete Repair by Nippel Grouting	

## **8.ORGANIZATION CHART**

# TECHNICAL LABORATORIES ORGANIZATION CHART

Appendix C



Approved By

*[Signature]*  
Manager

## **9.CV'S OF KEY PERSONNEL**

# Turgay Ceylan

Nationality : Turkish • Year of Birth: 1961

## Contact

Tel : +974-584-6221  
e-mail: tc@techlabqatar.com

## Address

TECHNICAL LABORATORIES  
P.O. Box: 5652, Doha, Qatar – Located at Industrial Area, Street # 11, Gate # 103.

## Present Designation in Company [Technical Laboratories]

**General Manager & Geotech Engineer**

## Education

**B.Sc in Geological Engineering/METU Ankara/Turkey 1984**

## Membership Held

**Turkish Businessman Association, Qatar[Board Member]**

## Work Experience

### **M/s. Technical Laboratories (Member of Hawar Group),**

- General Manager & Geotech Engineer

September 2005 till Date

### **M/s Hawar Group,**

- Civil Engineering Division Manager

### **M/s. BBG Engineering & Construction LL C Ras Al Khaimah/UAE,**

- Executive Director

July 2002 to September 2005

### **Birlik Madencilik, Insaat, Dis Ticaret A.S. Istanbul/Turkey**

- Deputy General Manager, Technical Operations
- Construction & Mining Division Director
- Member of Executive committee.

1995 to July, 2002

### **Ankara- Istanbul Motorway project**

- Project manager

January 1992 to 1995

### **Skanska - Artec- Bimhol Consortium, Kingdom of Saudi Arabia**

- Geological Engineer – Geotechnical Engineer, Site Engineer
- Tunnel Chief, Site Manager and Project Manager

1984 to January, 1992

## Responsibilities

Supervision of Geotechnical Section's staff at field & laboratory.

Liaison with clients / contractor in planning & scheduling of drilling jobs, in conjunction with the operations coordinator assisting the Manager in pricing & tendering.

Analysis & interpretation of field and laboratory test results, calculation of RQD, TCR, "N" Value, bearing capacities. Recommendations on foundation design, dewatering requirements & construction activities

Preparation of Engineering reports as per International and National specifications.

Checking & Signing of Engineering Reports.

## Languages

Turkish  
English  
Arabic- Spoken



# Ramachandra G. Hegde

Nationality : Indian ▪ Year of Birth :1962

## Contact

Tel : +974-584-6308

e-mail : rgh@techlabqatar.com

## Address

TECHNICAL LABORATORIES

P.O. Box: 5652, Doha, Qatar – Located at Industrial Area, Street # 11, Gate # 103.

## Present Designation in Company [Technical Laboratories]

Manager

## Education

M. Sc (Applied Geology)

## Qualifications / Certification

One week training & certification “Water Quality Monitoring” at Defense Laboratory, Jodhpur, India

One week training & certification on “Application of Satellite Photographs in Geophysical Application”, Hyderabad, India

Three days training on “Total Quality Management” at Directorate of Standards & Metrology, Ministry of Commerce, State of Bahrain

Two days training & certification on “ISO 9001:2000” conducted by ABS Quality Evaluations, Qatar

ISO 9001:2000 “Internal Auditor” training & certification

One week training & Certification on “ISO 17025:2005” conducted by Bureau Veritas, Qatar

Competent Toastmaster [CTM] certification from Toastmasters International, USA

## Work Experience

### Technical Laboratories

Manager/QA/QC Engineer/Technical Manager

September, 2000 to Till Date

### M/s. Magnum Industrial Laboratories (MIL), Bahrain.

Manager

August,1995 to September, 2000

### M/s. Oriental Goa Limited, Panjim, Goa, India

Geologist

December 1993 to August,1995

### M/s. Water Development Mysore Society, Bangalore, India

Geologist

July, 1987 to December,1993

Assistant Geologist

June, 1986 to December, 1987

## Responsibilities

Total in charge of quality assurance & quality control of laboratory and field testing of all the materials

To ensures that the appropriate methods and procedures for testing are applied.

Responsible for the selection of the appropriate and latest testing methods

Responsible for training of lab personnel in Soil, Aggregate Concrete and Asphalt testing

Responsible for preparing of Asphalt Mix Design and Test Reports

Responsible for the validation of new test methods and the authorization of the use of those tests methods

Responsible for ensuring that laboratory personnel performing specific tasks shall have the appropriate education, training and experience

Checks and signs final test report

## Languages

Kannada

English

Hindi

# Rajendra Kumar Pathak

Nationality : Nepali ▪ Year of Birth : 1973

## Contact

Tel : +974-460-3251

e-mail : -

## Address

TECHNICAL LABORATORIES  
P.O. Box: 5652, Doha, Qatar – Located at Industrial Area, Street # 15, Gate # 66.

## Present Designation in Company [Technical Laboratories]

QC Manager

## Education

**BCE / Ms Geotechnical Engineering (Incomplete Thesis)**

## Qualifications / Certification

Intermediate of Science , Tribhuvan University - Nepal  
Training & Certification on “Special English Language” conducted by American Training Center, Nepal  
Three Months Training & Certification “AutoCAD – Specially design for Civil Engineer for the Design & Drafting”  
Two days training & certification on “ISO 9001:2000” conducted by ABS Quality Evaluations, Qatar

## Work Experience

### **M/s. Technical Laboratories**

QA/QC Engineer

Feb 2005 to Nov 2008

Preparation of daily material schedule and assign the job to technician as per the reacquisition received

Monitoring timely ongoing test in Laboratory to ensure the test is as per the test standard.

Preparation of work sheet as per the standard requirement.

Preparation of test reports for Asphalt, Aggregates soils, Bitumen and checking Laboratory reports prior the submission to clients.

Tracking of the test reports as per the sample received and delivery of test reports.

Calibration certificates tracking and recording to monitor any due for the instrument calibration

### **M/S Norconsult Lahmeyer international (456 MW HEP)**

Jan 2010 to March 2011

Quality Control Engineer

Identification of Quarry and approval of the material as per the project requirements

Review of the material submittal by the Contractor and to proceed for the approval of the material and preparation of material approval log

Inspection of material received as per the submitted MAR by Contractor to confirm materials delivered as per the approval log.

Review of the concrete, shotcrete, grout mix design submitted by Contractor to proceed for the approval and maintaining Log of the approved Mix Design.

Review of ITP prepared and submitted by Contractor.

Inventory list of instruments submitted by Contractor, verification and external calibration scheduling and tracking

Internal verification of concrete batching plant at the project site.

Review of QAP submitted by Contractor.

Issue of NCR for any non-conformance to Contractor.

Follow up for the closing of NCR by Contractor.

Inspection of works as per the submitted RFI and the daily test at the project site Laboratory.

**M/S QBS International****April 2011 to March 2012**

Material submittal to Engineer for their review and approval process.  
Preparation of the daily inspection schedule and submit to Engineer.  
Submit daily RFI to Engineer for the inspection at site works.  
Preparation of ITP for Project.  
To strictly follow the frequency test as per the ITP.  
Follow up with approved 3<sup>rd</sup> party Laboratory for the schedule of the daily site test.  
Timely visit to 3<sup>rd</sup> party Lab with Engineer.

**M/S ITECO Nepal (22.5 MW HEP)****April 2012 to April 2014**

Quality Control Engineer

Identification of Quarry and approval of the material as per the project requirements  
Review of the material submittal by the Contractor and to proceed for the approval of the material and preparation of material approval log  
Inspection of material received as per the submitted MAR by Contractor to confirm materials delivered as per the approval log.  
Review of the concrete, shotcrete, grout mix design submitted by Contractor to proceed for the approval and maintaining Log of the approved Mix Design.  
Review of ITP prepared and submitted by Contractor.  
Inventory list of instruments submitted by Contractor, verification and external calibration scheduling and tracking  
Internal verification of concrete batching plant at the project site.  
Review of QAP submitted by Contractor.  
Issue of NCR for any non-conformance to Contractor.  
Follow up for the closing of NCR by Contractor.  
Inspection of works as per the submitted RFI and the daily test at the project site Laboratory.

**M/S PARSONS INTERNATIONAL****April 2014 to March 2016**

MATERIAL Engineer

Identification of Quarry and approval of the material as per the project requirements  
Review of the material submittal by the Contractor and to proceed for the approval of the material and preparation of material approval log  
Inspection of material received as per the submitted MAR by Contractor to confirm materials delivered as per the approval log.  
Review of the concrete, shotcrete, grout mix design submitted by Contractor to proceed for the approval and maintaining Log of the approved Mix Design.  
Review of ITP prepared and submitted by Contractor.  
Inventory list of instruments submitted by Contractor, verification and external calibration scheduling and tracking  
Review of QAP submitted by Contractor.  
Issue of NCR for any non-conformance to Contractor.  
Follow up for the closing of NCR by Contractor.  
Inspection of works as per the submitted RFI and the daily test at the project site Laboratory.  
Daily witness of the schedule of the site Laboratory test.

**M/s. Technical Laboratories**

QC Manager

May 2016 to till date

Checking of the daily test reports.  
Follow up for the Uncertainty measurement,  
Follow up for the ILT, PTP, Repeatability test and reproducibility  
Daily testing schedule and assigning to technician through Lab supervisor

Languages
Nepalese
English
Hindi

# Enriquita B Vevero

Nationality : Filipino

## Contact

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## Address

TECHNICAL LABORATORIES

P.O. Box: 5652, Doha, Qatar – Located at Industrial Area, Street # 11, Gate # 103.

## Present Designation in Company [Technical Laboratories]

QA-QC Engineer

## Education

Bachelor of Science in Civil Engineering

## Qualifications / Certification

Passed the Accreditation Exam For Material Engineer 2000

Passed the Licensure Exam For Civil Engineers, 1994

Training for Project Quality Control & Management

## Work Experience

### Technical Laboratories

QA/QC Engineer

From December 2013 Till Date

### DAS Island Development – Phase III – Abu Dhabi U.A.E

Engineering Asst.

From 2011 to 2013

### Marsa Al Seef Dredging – Kingdom of Bahrain

Environmental Engineer

From 2010 to 2011

### Development of Muscat International Airport - Oman

Engineering Asst.

From 2009 to 2010

### Department of Public Works and Highways - Philippines

Quality Control Engineer

From 1997 to 2007

## Responsibilities

Total in charge of quality assurance & quality control of laboratory and field testing of all the materials

To ensures that the appropriate methods and procedures for testing are applied.

Responsible for the selection of the appropriate and latest testing methods

Responsible for training of lab personnel in Soil, Aggregate Concrete and Asphalt testing

Responsible for preparing of Asphalt Mix Design and Test Reports

Responsible for the validation of new test methods and the authorization of the use of those tests methods

Responsible for ensuring that laboratory personnel performing specific tasks shall have the appropriate education, training and experience

Checks and signs final test report

## Languages

Filipino

English

# Dahy Abdel Aleem Hamza S.

Nationality : Egyptian ▪ year of Birth :1963

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## Address

TECHNICAL LABORATORIES

P.O. Box: 5652, Doha, Qatar – Located at Industrial Area, Street # 11, Gate # 103.

## Present Designation in Company [Technical Laboratories]

**Chemical Lab In-charge**

## Education

**B. Sc in Geology**

## Qualifications / Certification

Training & Certification in “Recycling used rubbish material in cement industrial plant (Tabbin institute for metallurgical studies)”

Training & Certification in “Concrete Field Testing”, ACI Training Center, Qatar

Training & Certification in “Concrete Laboratory Testing”, ACI Training Center, Qatar

Training & Certification in “Cement quality laboratory analysis and row mix design (F.LSmith)”

Training & Certification in “Cement Chemistry and Technology”

Training & Certification in “Deferent Method of protecting & controlling Gases”

Training & Certification in “Civil Deviance and Fire resistance”

## Work Experience

### **M/s. Technical Laboratories**

Chemical In-Charge

May 2007 Till Date

Site-Lab Incharge for Salwa Road Expansion Project

June 2010 to Jan 2013

### **M/s. Cairomatic**

Chemist

Since 2001 to 2005

### **M/s. Assuit Cement**

Engineering Geologist / Chemist

Since 1991 to 2001.

### **M/s. Ground Water Engineering Office**

Geologist / Chemist

Since 1987 to 1991

**Responsibilities**

Performing and Supervising tests

Verification and signing of Reports

Training Subordinates

Responsible for maintenance of Equipments and Calibration Schedules

Responsible to conduct Chemical Tests as per Current Standards and Method Statements.

Supervise Subordinates to conduct the tests

Ensuring that chemicals and Reagents have not expired. Responsible for disposing of Expired Chemicals and Reagents and procuring new chemicals and Reagents.

Ensuring ample supply of safety materials like gloves, Face Masks etc, and their proper usage.

Ensuring Method Statements are updated as per current standards.

Ensuring materials received for testing purposes meets the requirements as per International standards and that they are in good condition.

Ensure lab safety while conducting tests.

Making sure that samples are stored properly and do not get mixed up.

**Languages**

Arabic

English

# Shailesh Kumar Thapa

Nationality : Nepali • Year of Birth: 1973

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## Address

TECHNICAL LABORATORIES  
P.O. Box: 5652, Doha, Qatar – Located at Industrial Area, Street # 15, Gate # 66.

## Present Designation in Company [Technical Laboratories]

Engineering Geologist

## Education

**M. Sc. In Geology**

## Qualifications / Certification

Training & Certificate in “ Safety Officer” conducted by Doha Industrial Safety Services, Qatar.  
Participated International Symposium on Engineering Geology, Hydrogeology and Natural Disaster with emphasis on Asia in Sept. 23-30, 1999.  
30 Hours Construction Industry course as per OSHA Regulation at Doha  
Two days Training for Tunneling on behalf of International Tunnel Association organized by Nepal Tunnel Association (NTA)

## Work Experience

### M/s. Technical Laboratories

Engineering Geologist

Sep, 2014 to till date

- Geotechnical investigation (both off & on shore)/ soil investigation studies for soil Geotechnical investigation soil investigation studies for soil stratification
- Supervision of drilling, collection of samples, logging, testing & analysis
- Preparation of geotechnical investigation reports
- Pressure meter test, packer test, Plate load tests, push load test, permeability test, cavity probing, and different in situ testing, Laboratory testing and Reporting
- Drilling of boreholes for rock anchoring, installation & grouting for slope stability and ground improvement
- Well development, pumping test & preparation of Reports
- Ground water monitoring using Data logger
- Soil Resistivity Survey
- Well development, pumping Test and Preparation of Reports
- Supervision and Maintenance of Drilling Rigs, Mud pump and Accessories

On behalf of Qatar petroleum, Qatar gas, Hyundai and different Multinational companies in Qatar.

### M/s. Nepal Geotechnical Engineering Service Pvt. Ltd.

Senior Geologist

Jan. 2011 to August. 2014

- Geological and geotechnical investigation, face mapping, support recommendation, grouting work and to supervise overall geological condition on Tunnel alignment, underground powerhouse, underground Desander and vertical shaft at Khani Khola Hydroelectric project (40 MW) on behalf of Greenlife Energy Pvt. Ltd. (Underconstruction) |
- Geological and Geotechnical investigation, mapping and its mitigation on landslide and its prone area at primary health Care Centre Kolti Bajura on behalf of Department of urban development and building construction (DUDBC).



- Geotechnical investigation works, Core Drilling, In situ test (Permeability Test in soil and rock, SPT Test) in Namlang Hydroelectric Project, Mugu at Karnali River ( 500 MW) on Behalf of LANCO INFRATECH, INDIA.
- Geological mapping and Geotechnical study including natural hazard of Micro hydropower project at Mangpang Khola (6nos.) on behalf of AEPC.
- Geological mapping, Geotechnical investigation of Dhunge-Giri Hydropower Project (600KW) for Detailed study phase.
- Feasibility study and detailed study of Ikhuwa Khola HEP, Sankhuwasabha, Eastern Nepal (18.5 MW) on behalf of DOED Nepal Government project.
- Feasibility study and IEE study of Madi- Bhorletar HEP, Western Nepal Lamjung, Nepal (10.2 MW) on behalf of Kalas Nepal Government project
- Project Identification, fixation of hydropower major structures, identification of hazard zone, slope stability analysis & study of major geological structures at the head work site, canal alignment, forebay and power house and fixing the head by using GPS and measurement of water flow at Kailas Khola, Achham (4 MW), Taman Khola (5 MW) Nishi Khola (5 MW) at Baglung district.
- Geotechnical Soil Investigation, excavation of trial pit, logging and laboratory test to classify soil characteristic and to evaluate Bearing capacity of foundation for Polytechnic Academic Building on behalf of CTEVT at Tikapur, Dhangadhi.

#### **M/s. Technical Laboratories**

Engineering Geologist

June, 2007 to Sep. 2010

- 
- Geotechnical investigation (both off & on shore)/ soil investigation studies for soil Geotechnical investigation soil investigation studies for soil stratification
  - Supervision of drilling, collection of samples, logging, testing & analysis
  - Preparation of geotechnical investigation reports
  - Pressure meter test, packer test, Plate load tests, push load test, permeability test, cavity probing, and different in situ testing, Laboratory testing and Reporting
  - Drilling of boreholes for rock anchoring, installation & grouting for slope stability and ground improvement
  - Well development, pumping test & preparation of Reports
  - Ground water monitoring using Data logger
  - Soil Resistivity Survey
  - Well development, pumping Test and Preparation of Reports
  - Supervision and Maintenance of Drilling Rigs, Mud pump and Accessories
- On behalf of Qatar petroleum, Qatar gas, Hyundai and different Multi national company in Qatar.

#### **Multi Tech Engineering Consultancy, Kathmandu, Nepal**

Engineering Geologist

Jan., 2000 to May, 2007

- Geotechnical and Geological Investigation, engineering geological mapping, slope stability analysis, drilling, pitting & augering, drilling supervision, core logging and carrying in-situ tests in major power structure, material survey, sub-station and tower line foundation, laboratory testing, analysis and report preparation.
- Slope stability analysis, groundwater hydrogeology in western Terai (5 deep tube well) and feasibility study, IEE, Preparation of detailed engineering geological mapping, landslide hazard mapping, slope stability analysis, rock and soil investigation, geotechnical investigation, study of instability features in Dam site, Canal alignment, Forebay, Tunnel and powerhouse, and construction material survey in Phawa Khola (**2.1 MW**) Taplejung, Bhairavkund Khola (**1.5 MW**), Sindhupalchock.
- Detailed geological and geotechnical studies, Responsible for engineering geological mapping, slope stability analysis, drilling, pitting & augering, laboratory testing, analysis and report preparation for Natural Disaster such as Debris flow, Landslide and their mitigation along Bardibas- Sindhuli Road

section.

- Geotechnical investigation, in situ test, SPT test, and borehole logging and laboratory test to evaluate Bearing capacity of foundation for Kirnetar Substation Project (33KV) through **Nepal Hydroelectric LTd (NHE)**.
- Detailed Project Report (DPR) of Madi Hydroelectric Project, EIA, Preparation of detailed engineering geological mapping, slope stability analysis, geotechnical investigation, drilling supervision, core logging, carrying in-situ tests, laboratory test and report preparation in Transmission line, Dam site, Tunnel alignment and powerhouse, and construction material survey in Madi Khola (**10 MW**), Rolpa on behalf of **Butwal Power Company (BPC)**.
- Geological and geotechnical studies such as geological mapping, analysis of laboratory testing results, earthquake hazard assessment, bearing capacity and settlement analysis and final report preparation for natural Disaster such as Debris flow, Landslide, slope stability analysis and their mitigation along Lothe Khola Section in Chiwan and Makwanpur.
- Detailed Project Report (DPR) of Mai Hydroelectric Project, EIA, Preparation of detailed engineering geological mapping, slope stability analysis, geotechnical investigation, drilling supervision, core logging, carrying in-situ tests, laboratory test and report preparation in Transmission line, Dam site, Tunnel alignment and powerhouse, and construction material survey in Mai Khola (**15 MW**) and (**8 MW**) in Mai cascade, Ilam on behalf of **Sanima Hydropower Pvt. Ltd.**
- Feasibility study IEE, Preparation of detailed engineering geological mapping, slope stability analysis, geotechnical investigation, study of instability features in Dam site, penstock alignment and powerhouse, and estimation of construction material in Khimti Khola(**5 MW**),Dolakha on behalf of **Arun Vallyey Hydropower Pvt.**
- Geological mapping, identification of hazard zone, slope stability analysis & study of major geological structures at the head work site, canal alignment, forebay and power house and fixing the head by using GPS in Molung Khola, Okhaldhung, Rasuwa Khola, Udaypur, Sorun Khola and Sipirin Khola, Dolakha and Marin Khola, Sindhuli on behalf of DOED for Screening and Ranking project on behalf of **DOED**.
- Study of Stone available in Katmandu for purpose of Architectural view, construction material, cadding, paving, itching, and survey of their local price and their properties on the behalf of Himalayan Encounter P (Ltd), Thamel.
- Feasibility study, Preparation of detailed engineering geological mapping, slope stability analysis, geotechnical investigation, study of instability features in Dam site, Tunnel alignment and powerhouse, and estimation of construction material in Mai loop Hydroelectric project (**60 MW**) Ilam on behalf of **Sanima Hydropower Pvt. Ltd.**
- Feasibility study, Preparation of detailed engineering geological mapping, slope stability analysis, geotechnical investigation, study of instability features in Dam site, Tunnel alignment and powerhouse, and estimation of construction material in **Upper Feme Hydraulic Project (2.1 MW)** Phidim on behalf of **Khoranga Hydropower project.**
- Study of geology, geomorphology, natural resources, natural hazard, socio-economic condition, and, on preparing geological map, landslide map and their mitigation by using Bio-engineering in Haku, Rasuwa, On behalf of DDC, Rasuwa

#### Languages

**Nepali**  
**English**  
**Hindi**

# Muhammed Shamnar K V

Nationality : Indian ▪ Year of Birth :1988

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## Address

TECHNICAL LABORATORIES

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## Present Designation in Company [Technical Laboratories]

**Engineering Geologist**

## Education

**M. Sc (Applied Geology)**

## Qualifications / Certification

Four-day National seminar on 'Basins of India' held at Annamalai University India.

Two-day National seminar on 'Mineral Exploration and Mining' held at Annamalai University India

Two-day National seminar on 'Environmental Degradation impact on Geosphere at M.E.S Ponnani College India.

One-day workshop on 'GIS' (Geographic Information System) held at Annamalai University India.

## Work Experience

### Technical Laboratories

Engineering Geologist

January, 2013 to Till Date

### Ground Water Department Palakkad – (Kerala govt, India)

Junior Hydro Geologist

November,2012 to September, 2012

### Ground Water Department Malappuram – (Kerala govt, India)

Geological Assistant

March 2012 - June 2012

## Responsibilities

Performing site visit, prepared inspection reports about the particular area rock types.

Conducting Hydro geological and Geophysical investigations to locate suitable areas to construct groundwater extraction structures such as Bore wells etc.

Preparing Geotech Investigation Reports

## Languages

Malayalam

English

Hindi

Tamil

# Ramsharan Subedi

Nationality : Nepali • Year of Birth : 1963

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## Address

TECHNICAL LABORATORIES

P.O. Box: 5652, Doha, Qatar – Located at Industrial Area, Street # 11, Gate # 103

## Present Designation in Company [Technical Laboratories]

Lab Supervisor

## Education

Intermediate Commerce

## Qualifications / Certification

Training & Certification in Computer Basic

Technical Training Course in Field & Laboratory Testing of Concrete conducted by American Concrete Institute

## Work Experience

### M/s. Technical Laboratory

Laboratory Supervisor

2007 – Till Date

### M/s. ITEO Consultants P.Ltd. Nepal

Laboratory Supervisor

1996 to 2007

### M/s. Multi Lab P. Ltd. Nepal

Sr. Technician

1994 to 1995

### M/s. George Consultancy

Sr. Technician

1992 to 1993

### M/s. N. D. Lea & Associates

Technician

1988 to 1992

## Responsibilities

To see that the appropriate methods and procedures for testing are applied.

He is responsible for the selection of the appropriate and latest testing methods

Responsible to conduct the tests as per International and National Standards,

He is responsible for ensuring that laboratory personnel performing specific tasks shall have the appropriate education, training and experience

Allots samples to technicians for various tests and supervise the complete process from preparation of samples to preparation of test work sheets.

Responsible for updating the Manager/ QA/QC Engineer with regards to the need for new equipment requirements

Calculates the test results and prepare the test report

## Languages

Nepali

English

Hindi

# Krishna Poudel

Nationality : Nepali ▪ Year of Birth : August 11, 1979

## Contact

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e-mail :

## Address

TECHNICAL LABORATORIES

P.O. Box: 5652, Doha, Qatar – Located at Industrial Area, Street # 11, Gate # 103

## Present Designation in Company [Technical Laboratories]

Sr. Technician / RPO

## Education

INTERMEDIATION IN SCIENCE TECHNOLOGY

## Qualifications / Certification

Training & Certification in Computer Basic

Training & Certification and License in “Radiation Protection in Industrial Application (Nuclear Gauge)” conducted in Arabic Cultural Center. Qatar

Training & Certification and license in Nuclear Gauge Machine Maintenance Operation & Handling conducted by Strategic Center Qatar

Technical Training Course in Field & Laboratory Testing of Concrete conducted by American Concrete Institute

## Work Experience

### M/s.Technical Laboratory

Sr. Laboratory Technician

June 2007 – Till Date

### M/s CCECC Gaura J.V.(Pvt) Nepal

Assistant Technician

April 2005 to May 2007

### M/s CTEC Kalika J.V. (Pvt) Nepal

Laboratory Technician

Nov. 2004 to April 2005

## Responsibilities

Responsible to conduct the tests as per International and National Standards,

Carries out concrete cube casting & slump test at site as per the standards

Calculates the test results, assists Laboratory supervisor for preparation of the test report

Assists Laboratory Supervisor in maintenance of laboratory equipments and calibration schedules.

## Languages

Nepali

English

Hindi

# Dorjey Kazi

Nationality : Nepali

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## Address

TECHNICAL LABORATORIES

P.O. Box: 5652, Doha, Qatar – Located at Industrial Area, Street # 11, Gate # 103.

## Present Designation in Company [Technical Laboratories]

**Sr. Technician**

## Education

**Bachelor of Business Administrator (Second Year)**

## Qualifications / Certification

Training & Certification in "Computer Basic"

## Work Experience

### M/s. Technical Laboratories

Laboratory Technician

February, 2008 to till date

### M/s. RAID Project

Laboratory Technician

May,2007 to January, 2008

### M/s. Road Network Development Project (R.N.D.P.) ITECO Nepal, Full bright and ICGS Consultancy (Pvt.)

Assistant Laboratory Technician

August, 2005 to April, 2007

### M/s. Nepal Single / CCECC-GAURA J/V (P)Ltd. Pattarka, Nepal

Assistant Laboratory Technician

November, 2003 to June, 2005

## Responsibilities

Responsible to conduct the tests as per International and National Standards.

Carries out concrete cube casting & slump test at site as per the standards

Responsible to carry out all asphalt test including asphalt mix design and preparation of test reports

Assists Laboratory Supervisor in maintenance of laboratory equipments and calibration schedules Assists

Sr.Technicians in maintenance of laboratory equipments and calibration schedules.

## Languages

Nepali

English

Hindi

# Bincy Varghese

Nationality : Indian ▪ Year of Birth :20 March 1979

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## Address

TECHNICAL LABORATORIES

P.O. Box: 5652, Doha, Qatar – Located at Industrial Area, Street # 11, Gate # 103

## Present Designation in Company [Technical Laboratories]

**QA-QC Inspector**

## Education

Diploma in Chemical Engineering

## Qualifications / Certification

Certification of MS-Office

## Work Experience

### M/s. Technical Laboratories

QA/QC Inspector

From 02 November 2015 - Till date

## Responsibilities

- Supervising testing in Soil, Aggregate, Steel & Concrete
- Giving internal training to laboratory technicians.
- Responsible for the internal verification / calibration of the laboratory equipments.
- To ensure that relevant standards and procedures for testing are applied.
- Prepares, checks and signs the final test report

## Languages

English

Malayalam

# Dianne Margaret S. Co

Nationality : Filipino

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## Address

TECHNICAL LABORATORIES

P.O. Box: 5652, Doha, Qatar – Located at Industrial Area, Street # 11, Gate # 103.

## Present Designation in Company [Technical Laboratories]

QA-QC Inspector

## Education

Bachelor of Science in Chemistry, Bachelor of Science in Materials Science & Engineering

## Qualifications / Certification

Passed the Licensure Exam For Chemistry, 2014

## Work Experience

Technical Laboratories

QA/QC Inspector

From April 2015 Till Date

## Responsibilities

Supervise testing in Soil, Aggregate, Steel & Chemical Lab

To ensure that the appropriate methods and procedures for testing are applied.

Responsible for the selection of the appropriate and latest testing methods

Responsible for training of lab personnel in Soil, Aggregate Concrete and Asphalt testing

Responsible for ensuring that laboratory personnel performing specific tasks shall have the appropriate education, training and experience

Checks and signs final test report

## Languages

Filipino

English



# Atul Kumar Gurung

Nationality : Nepali • Year of Birth :1962

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## Address

TECHNICAL LABORATORIES  
P.O. Box: 5652, Doha, Qatar – Located at Industrial Area, Street # 15, Gate # 66.

## Present Designation in Company [Technical Laboratories]

Lab / Field Technician

## Education

I. Sc (Intermediate)

## Qualifications / Certification

Training & Certification and License in “ Radiation Protection in Industrial Application (Nuclear Gauge)” conducted by Arabic Cultural Center, Qatar

Training & Certification and License in “ Nuclear Gauge Machine Maintenance, Operation & Handling” conducted by Strategic Center, Qatar

## Work Experience

**M/s. Technical Laboratories**

**2002 to till date**

**Senior Lab / Field Technician**

Collects samples of soils and construction materials in the field to measure physical characteristics; may be required to collect and test environmental media and measure environmental characteristics.

Work closely with laboratory personnel to complete physical soil tests.

Works with technicians on routine tasks, and also given a progressively increased role of training and responsibility in work assignments.

Perform various tasks at the discretion of the lab manager.

Operates nuclear and electronic instruments to determine relative compaction of soils; calibrates and adjusts instruments to compensate for changing conditions.

Records and reports test results after performing mathematical calculations, making graphical solutions and graphical representations.

Uses appropriate personal protective equipment (PPE), which may include wearing a respirator, and follows appropriate health and safety practices.

Uses wheelbarrow, coring machine and other materials or equipment to collect samples or conduct tests.

Performs related duties as required

## Languages

Nepalese  
English  
Hindi

# Robert Kelman

Nationality : Indian • year of Birth :1961

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## Address

TECHNICAL LABORATORIES

P.O. Box: 5652, Doha, Qatar – Located at Industrial Area, Street # 11, Gate # 103.

## Present Designation in Company [Technical Laboratories]

Drilling & Safety Supervisor

Concrete Field Technician for Fresh Concrete sampling and measurement of slump and temperature.

## Education

Higher Secondary Pass ( State Board )

## Qualifications / Certification

Trained & certified in “Drilling, Welding & Pressure Grouting”

On the Job Training (OJT) on Fresh Concrete Sampling

Trained & Certified as “Safety Officer” conducted by Doha Industrial Safety Services, Qatar.

## Work Experience

### M/s. Technical Laboratories

Drilling Supervisor

2006 Till Date

Concrete Field Technician (Slump, Temp & sampling)

### M/s. Jaiprakash Industries Ltd.

On site Senior Supervisor, Drilling

2003 to 2005

### M/s. Southeastern Construction Co.

Rig Operator

1993 to 2003

## Responsibilities

He is the in charge of drilling work at site and reports to Engineering Geologist.

To conduct drilling / coring operations as per BS /ASTM standard specification at site using suitable drilling technology.

To drill soak away / Earthling boreholes, using DTH Hammer or rotary drilling technique.

The installation of casing, during the drilling operation, as & when required.

Mobilization / demobilization and setting-up drilling rig to drilling locations.

Assists the Engineering Geologist in collecting, labeling, packing & transportation of different types of samples at site.

Arrange safety training at the site

Assists the Engineering Geologist in preparation of drilling log

Measuring slump and temperature for the fresh concrete as per BS standard.

Sampling of fresh concrete as per BS standard.

## Languages

Telgu

English

Hindi

## Vanessa M. Martesio

Nationality : Filipino • Year of Birth : 1981

## Contact

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vanessamartesio@ymail.com

## Address

TECHNICAL LABORATORIES

P.O. Box: 5652, Doha, Qatar – Located at Industrial Area, Street # 11, Gate # 103.

## Present Designation in Company [Technical Laboratories]

QA/QC Inspector

## Education

Bachelor of Science in Medical Technology

## Qualifications / Certification

Training & Certification in ISO 17025 & ISO 9001

## Work Experience

### M/s. Technical Laboratories

QA/QC Inspector

May, 2014 to till date

### M/s. Material Lab, Dubai UAE

Chemical Supervisor

October 2013 to  
March, 2014

### M/s Geoscience Testing Laboratory, Dubai UAE

Chemical Supervisor/ Chemist

January, 2007 to October,2012

## Responsibilities

Witnessing and sentencing of all lab/site inspection within their disciplines.

Review work procedures & method statement for compliance with good work practices.

Ensure all work is correctly prepared prior to any inspection being undertaken.

Coordinate calibration of all tests equipment.

Evaluate problems and make initial recommendation for possible corrective action to supervise.

## Languages

English  
Tagalog

# Arun Kumar

Nationality : Indian • Year of Birth : October 25, 1991

## Contact

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e-mail : info@techlabqatar.com

## Address

TECHNICAL LABORATORIES  
P.O. Box: 5652, Doha, Qatar – Located at Industrial Area, Street # 11, Gate # 103

## Present Designation in Company [Technical Laboratories]

QA/QC Inspector

## Education

Diploma in Civil Engineering

## Qualifications / Certification

Training & Certification in AutoCAD STAAD PRO conducted by VEL  
Tech. Diploma College, Chennai-India

## Work Experience

### TECHNICAL LABORATORY

Dec 2014 -Till Date

QA/QC Inspector

M/s Chennai Corporation, Chennai – India

April 2014 to Nov 2014

Site Engineer

M/s Saraswathi Engineering Construction, India

June 2013 to March 2014

Site Engineer

### Responsibilities

To ensure that the appropriate methods and procedures for testing are applied

Responsible for the selection of the appropriate and latest testing methods

Responsible for training of Lab personnel in Soil, Aggregate, Concrete and Asphalt testing.

Checks and verifies test reports

Ensuring quality of tests and that there is no deviation from standards while performing tests

Ensuring Lab technicians are wearing relevant Safety gear while performing tests.

Ensure ample supply of safety gear and materials for tests.

Performs related duties as required

## Languages

English

Hindi

Tamil

Telegu

**10.LIST OF MAJOR ONGOING  
&  
COMPLETED PROJECTS**

# TECH LAB

[ISO 9001:2008]



ISO 17025:2005

LIST SHOWING MATERIAL TESTING CARRIED OUT FOR MAJOR COMPLETED/ONGOING PROJECTS

## MATERIAL TESTING PROJECTS

SI.No.	YEAR		CONTRACTOR	CONSULTANT	NAME OF THE PROJECT
	STARTING	COMPLETING			
<b>GOVERNMENT ROAD [ ASHGHAL - PUPLC WORK AUTHORITY ] PROJECTS</b>					
1	2003	2005	KBAS CONTRACTING &	A.E.C	ERC 0684/C1 - LINK ROAD BETWEEN CENTRAL MARKET R/A to AL WAAB ROAD
2	2003	2005	BUZWAIR ENGINEERING	ROAD DEPARTMENT [ASHGAL]	ERC 0390/C5 - DESIGN & CONST. OF ACCESS ROADS TO MOTOR CYCLE RACE TRACK
3	2003	2004	AL JABER TRADING & CONTRACTING CO.	CONSER	ERC 0593/C3 - RIW AT EAST OF KHARTIYAT
4	2004	2005	DARWISH ENGINEERING	DALAL CONSULTING ENG.	DEVELOPMENT OF SMALL & MEDIUM SCALE IND. AREA IN DOHA CITY, CONST OF ROADS
5	2004	2005		CORE OF ENGINEERS	DJ 657 - FY 03 MCA - PROGRAMS AT SAILIYAH (AMERICAN ARMY BASE)
6	2004	2006	KBAS CONTRACTING & INDUSTRIAL CO.	ROAD DEPARTMENT [ASHGAL]	ERC 0230/B - CONSTRUCTION OF ROADS IN QARS. ZONE # 55
7	2004	2006	KBAS CONTRACTING & INDUSTRIAL CO.	ROAD DEPARTMENT [ASHGAL]	ERM 1019/C3 - AL MUNTAZAH ZONE # 24
8	2004	2006		PROJACS	KSCDC/220/04 KHALIFA SPORTS CITY DEVELOPMENT
9	2005	2007	KBAS CONT. & IND. CO.	ROAD DEPARTMENT [ASHGAL]	ERC 0671/1/C1 - ALSALAM STREET PHASE 2
10	2005	2007	BUZWAIR ENGINEERING	ROAD DEPARTMENT [ASHGAL]	ERC 0390/C5 - DESIGN & CONST. OF ACCESS ROADS TO MOTOR CYCLE RACE TRACK
11	2005	2007		CONSER	ERC 0659/C2 - RIW CENTRAL RAYYAN
12	2005	2007	AL JABER TRADING & CONTRACTING CO.		ERC 0622/C4 - NORTH RAYYAN
13	2005	2007		ASHGHAL	LTC /01/2003 - REINSTATEMENT WORKS IN ROAD WAYS & PAVEMENTS AT AL RUMEILA II
14	2005	2007	AL HUDA ENGINEERING WORKS	ROAD DEPARTMENT [ASHGAL]	P-613/C2 RIW AT GHARRAFA & BANI HAJER
15	2005	2007	AL GHORARI & PARTNERS	ROAD DEPARTMENT [ASHGAL]	PROTECTION FENCING FOR LINK ROAD TO MAIN ROAD
16	2005	2007	UNITED ENGINEERING MALAYSIA	ROAD DEPARTMENT [ASHGAL]	ERC 0451/C1 - SALWA INTERNATIONAL HIGHWAY PROJECT
17	2005	2007		ROAD DEPARTMENT [ASHGAL]	ERM 1019/C3 - AL MUNTAZAH ZONE # 24
18	2005	2007	KBAS CONT. & IND. CO.	ROAD DEPARTMENT [ASHGAL]	ERC 0612/C1 - RIW NEW RAYYAN
19	2005	2007		ROAD DEPARTMENT [ASHGAL]	ERC 0589 - AL WAKRAH
20	2005	2007	AL HUDA ENGINEERING WORKS	ROAD DEPARTMENT [ASHGAL]	P-622/C3 AT AL MURRAH WEST PACKAGE # 4 & 7
21	2005	2007	AL JABER TRADING & CONTRACTING CO.	ROAD DEPARTMENT [ASHGAL]	ERC 0593/C6 - RIW AT AL GHUWAIIRIYAH
22	2005	2007		ASHGHAL [ROAD DEPARTMENT]	PAVEMENT & ROAD WOARKS AT DOHA ZOO
23	2005	2007	AL ASAS CONTRACTING CO.		ERC 0593/C5 - RIW AT JUMAILIYAH
24	2005	2007	AL JABER TRADING & CONTRACTING CO.	KHATIB & ALAMI	ERC 1304 C4 CAMEL COSSING ON MAIN ROADS
25	2005	2007	KBAS CONT. & IND. CO.	ROAD DEPARTMENT [ASHGAL]	ERC 1406/C1 - RIW AT AL KHOR, PHASE 2
26	2005	2007	BOOM CONSTRUCTION	MAUNSELL CONSULTANCY SERVICES	ERC 0656/C1 - SUHAIM BIN HAMAD STREET
27	2005	2009	BUZWAIR ENGINEERING & CONT. CO.	ASHGAL/TECHNITAL	ERC 1400/D3/C1 WEST BAY
28	2005	2008	AL JABER TRADING & CONTRACTING CO.	ROAD DEPARTMENT [ASHGAL]	ERC 1400/D3/C4 WEST BAY
29	2005	2007	AL HUDA ENGINEERING WORKS	ROAD DEPARTMENT [ASHGAL]	DMRM 2005/C7 & DMRM 2005/C9
30	2005	2007	KBAS CONT. & IND. CO.	ASHGAL	HIGHWAY MAINTENANCE AT MUNTAZAH AREA
31	2005	2007		ASHGHAL	ERC 0543/C5 AT JUMAILIYAH
32	2005	2008	AL HUDA ENGINEERING WORKS		ERC 1416 - CSA SALAH AL DEE ST.
33	2005	2007	KBAS CONT. & IND. CO.	ROAD DEPARTMENT [ASHGAL]	FAREEJ BIN MAHMOUD
34	2005	2010	AL HUDA ENGINEERING WORKS	MAUNSELL	ERC 1400/D3/C3 PHASE 8
35	2006	2008	BILFINGER BERGER-AL HAMAD JOINT VENTURE	ROAD DEPARTMENT [ASHGHAL] / MOUNSELL	DOHA EXPRESS WAY PROJECT - 22nd FEBRUARY STREET ALAMIR STREET UPGRADE & INTERCHANGES WORKS
36	2007	2010	KBAS CONTRACTING & TRAD. CO.	ASHGHAL	UMM SALAL PROJECT
37	2007	2012	TEKFEN CONSTRUCTION CO.	ASHGAL / DAR AL HANDASAH	PRIMARY ROUTE NORTH ROAD PROJECT
38	2008	2011	PROMER QATAR WLL	BUILDING AFFAIRS [ASHGHAL]	AL KHOR FISH MARKET
39	2009	2010	PROMER QATAR WLL	BUILDING AFFAIRS [ASHGHAL]	AL KHOR MUNICIPALITY BUILDING

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[ISO 9001:2008]



ISO 17025:2005

LIST SHOWING MATERIAL TESTING CARRIED OUT FOR MAJOR COMPLETED/ONGOING PROJECTS

## MATERIAL TESTING PROJECTS

SI.No.	YEAR		CONTRACTOR	CONSULTANT	NAME OF THE PROJECT
	STARTING	COMPLETING			
40	2009	2011	PROMER QATAR WLL	BUILDING AFFAIRS [ASHGHAL]	CONSTRUCTION OF LABORATORY BUILDING AT ABU HAMOUR
41	2009	2011	PROMER QATAR WLL	BUILDING AFFAIRS [ASHGHAL]	CONSTRUCTION OF FISH MARKET - DOHA
42	2008	2010	PROMER QATAR WLL	BUILDING AFFAIRS [ASHGHAL]	DOHA PORT PROJECT
43	2009	2010	AL ASASCONTRACTING CO.	House Connection Unit	C-2009/60 - Doha & Rayyan Sewerage Scheme Call Out Contract 05/2009
44	2009	2009	AL ASASCONTRACTING CO.	Drainage Network of Operation & Maint. Dep.	C-2009/45 - Replacement / Re - Routing of the existing Sewer Lines at Al Wajbah Palace Area.
45	2009	2010	AL ASASCONTRACTING CO.	Drainage Network of Operation & Maint. Dep.	C-2009/79 - Replacement of Sewer Lines At Abu Ziyad Street Al - Muntazah Area and Ibn Al - Jawzi Street, Umm Ghuwailina Area.
46	2009	2011	AL ASASCONTRACTING CO.	Maintenance Road Dept. Engineering	C-2009/38 - Emergency Reinstatement and Maintenance of Roads Throughout Qatar Contract 1
47	2009	2011	PROMER QATAR WLL	BUILDING AFFAIRS [ASHGHAL]	MESAIMEER GARVE YARD, ABU HAMOUR
48	2009	2012	IMPERIAL TRADING & CONTRACTING CO	Consulting Engineering Group (CEG)	C-2009/9-SCHOOL BUILDING #01, MAMOURA
49	2009	2012	IMPERIAL TRADING & CONTRACTING CO	Consulting Engineering Group (CEG)	C-2009/10-SCHOOL NO.14
50	2009	2012	IMPERIAL TRADING & CONTRACTING CO	Consulting Engineering Group (CEG)	C-2009/11-SCHOOL NO.7
51	2010	2013	IMPERIAL TRADING & CONTRACTING CO	National Engineering Service Pakistan(NESPAC)	C-2010/51-CONSTRUCTION OF 4 NEW SCHOOLS PACKAGE 2 (SCHL #9-Girls & #16-Boys @DUHAIL / #14 & 15 - Boys @ AL WAAB)
52	2010	2014	YUKSEL-MIDMAC JV	AECOM MOUNSEL	C-2010/026 - RA 07/08 C 005 G - DOHA EXPRESSWAY [PACKAGE#7] SALWA ROAD
53	2010	2012	TEKFEN CONSTRUCTION CO.	KEO/PEO	CEREMONIAL NATIONAL DAY ROAD PROJECT
54	2010	2012	AL ASASCONTRACTING CO.	Drainage Network of Operation & Maint. Dep.	C-2010/64 - Replacement / Re - Routing of Sewer Networks at Muraikh Area
55	2010	2012	AL ASASCONTRACTING CO.	Drainage Network of Operation & Maint. Dep.	C-2010/65 - Replacement / Upgrading of the Existing Sewer Lne at Madinat Kalifa South
56	2011	2012	AL ASASCONTRACTING CO.	House Connection Unit	C-2011/8 - Sewer Extension & House Connections at Old Salata Area
57	2010	2012	AL ASASCONTRACTING CO.	Maintenance & Engineering Devision Engineer	C-2009/2010 - Asphalt Paving Works for Ministry of Interior at Various Locations
58	2011	2013	AL ASASCONTRACTING CO.	Maintenance & Engineering Devision Engineer	C-2010/80 - DOHA & RAYYAN SEWERAGE SCHEME SURFACE WATER SCHEME EXTENSION TO AIN KHALID AREA
59	2014	ON GOING	DOGUS - ONUR JV	ASHGHAL/EGIS	CONSTRUCTION & UPGRADE OF RAYYAN PROJECT
60	2014	ON GOING	TEKFEN CONSTRUCTION CO.	ASHGHAL/ KEO	DESIGN AND CONSTRUCT SERVICE ROAD ENHANCEMENT TO NORTH ROAD CORRIDOR - P-059
61	2014	ON GOING	GULF CONSOLIDATED CONTRACTORS W.L.L	ASHGHAL/ KAWSP JV	QN003 Roads and Infrastructure for Commercial Street in Al Khor area
62	2015	2016	MARBU CONTRACTING COMPANY	ASHGHAL [ROAD DEPARTMENT]	ROAD & INFRASTRUCTURE FOR GOVERNMENT RESIDENTIAL DIVISION SOUTH OF WUKAIR
63	2017	ON GOING	DAEWOO ENGINEERING AND CONSTRUCTION CO.	ASGHAL/ AECOM	Design and Construction of the Orbit Highway & Truck Rout
<b>QATAR PETROLEUM (QP) PROJECTS</b>					
64	2003	2004	AL MUFTAH CONTRACTING COMPANY	QATAR PETROLEUM	GTC 107/ED/01 - CONSTRUCTION OF COMMERCIAL COMPLEX AT RAS LAFFAN
65	2003	2004	KABS CONT. & IND. Co.	QATAR PETROLEUM	GTC 147/ED/01 NORTHERN & SOUTHERN PERIMETER ROADS AT RAS LAFFAN
66	2003	2004	PUNJ LLOYD Ltd.	QATAR PETROLEUM	GTC 165/ED/02 -- EPIC OF INFRASTRUCTURE & SERVICES TO DUKHAN SUPPORT SERVICES AREA
67	2003	2004	VOLTAGE ENGINEERING	QATAR PETROLEUM	GTC 142/ED/02 - DUKHAN
68	2003	2004	PETROSERV Ltd.	QATAR PETROLEUM	GTC 109/MCD/01 INSTALLATION OF NEW STAND BY "MOL" PUMP AT KHATIYA SOUTH
69	2003	2005		QATAR PETROLEUM	GTC 185/ED/02 EPIC OF NEW SEWERAGE TREATMENT PLANT AT DUKHAN
70	2003	2004		QATAR PETROLEUM	GTC 191/ED/02 EPIC OF 1.5 MMIV POTABLE WATER STORAGE TANK AT DUKHAN
71	2003	2004	MIDMAC CONTRACO JV	QATAR FOUNDATION / KEO INTERNATIONAL	QATAR EDUCATION CITY - ARTS & SCIENCE BUILDING
72	2003	2005	MIDMAC CONTRACTING CO.	QATAR FOUNDATION / KEO INTERNATIONAL	QATAR EDUCATION CITY - 505 LANDSCAPING
73	2003	2004	AL MUFTAH CONTRACTING COMPANY	QATAR PETROLEUM	GTC 137/ED/02 - CONSTRUCTION OF NEW MOSQUE AT DUKHAN
74	2003	2004		QATAR PETROLEUM	GTC 233/ED/03 - CONSTRUCTION OF FORE STATION # 3 AT RAS LAFFAN
75	2004	2005	AL MUFTAH CONTRACTING COMPANY	ARAB ENG. CONSULTANT (AEC)	QP DUKHAN - OPERATIONS HEAD QUARTERS BUILDINGS
76	2004	2005		QATAR DESIGN CONSORTIUM	GTC 167/ED/03 EPIC OF RELOCATION OF REPEATERS STATION AT SIMAISIMA

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LIST SHOWING MATERIAL TESTING CARRIED OUT FOR MAJOR COMPLETED/ONGOING PROJECTS

## MATERIAL TESTING PROJECTS

SI.No.	YEAR		CONTRACTOR	CONSULTANT	NAME OF THE PROJECT
	STARTING	COMPLETING			
77	2004	2006	KEMCO	ORYX / RLIC	ORYX - GTC PROJECT - 33 KV CABLE INSTALLATION WORKS AT RAS LAFFAN
78	2004	2006	AL MUFTAH CONTRACTING COMPANY	UNITED CONSULTANT	LABOUR ACCOMMODATION PHASE # II AT MESAIEED
79	2005	2007	BOOM CONSTRUCTION	QATAR PETROLEUM	QP DUKHAN - OPERATIONS HEAD QUARTERS BUILDINGS
80	2005	2007	AL MUFTAH CONTRACTING COMPANY	ARAB ENGINEERING CONSULTANS	AMC J108 DUKHAN MEDICAL CENTER
81	2005	2016	AL ALI PROJECTS	QATAR PETROLEUM	GTC 04/174/FSD - CULVERT WORK AT JALENA DUKHAN
82	2005	2007	SAMSUNG CORP. ENGINEERING & CONSTRUCTION GRP.	QATAR PETROLEUM	EPIC OF 3 LPG TANKS & CONVERSION OF EXISTING 2 PROPANE TANKS TO BUTANE
83	2005	2007	GULF CONSOLIDATED CONTRACTORS	QATAR PETROLEUM	GTC 214/ED/04 CONSTRUCTION OF ROADS & UTILITY CROSSINGS & LIGHTS AT MESAIEED
84	2005	2007	AL BALAGH TRAD. & CONT. CO.	QATAR PETROLEUM	QP REFINERY PLANT PARKING AREA
85	2005	2007	BOOM CONSTRUCTION	QATAR PETROLEUM	GTC 185/ED/02 EPIC OF NEW SEWERAGE TREATMENT PLANT AT DUKHAN
86	2005	2007	GULF CONSOLIDATED CONTRACTORS	QATAR PETROLEUM	GTC 166/ED/02 - ENGINEERING PROCUREMENT & CONSTRUCTION OF DUAL CARRIAGE
87	2005	2007		QATAR PETROLEUM	GTC 214/ED/04 CONSTRUCTION OF ROADS & UTILITY CROSSINGS & LIGHTS AT MESAIEED
88	2005	2007	CONSOLIDATED ENGINEERING CONST.CO. WLL.	QATAR PETROLEUM	GTC 04/171/ED - EPIC OF LEEBREAK WATER PIPE RACK FOR LIQUID PRODUCT BERTH
89	2005	2007	SIEMENS AG/SSM	QATAR PETROLEUM	RAS LAFFAN "B" POWER & DESALINATION PLANT
90	2005	2007	LARSEN & TOUBRO	QATAR PETROLEUM	RAS LAFFAN "B" POWER & DESALINATION PLANT
91	2005	2007	AMMICO CONTRACTING CO.	QATAR PETROLEUM	RAS LAFFAN "B" POWER & DESALINATION PLANT
92	2005	2007	VOLTAGE ENGINEERING	ENERGO PROJECT	GTC 190/02 EPIC OF 33 KV OVERHEAD LINES & SUBSTATIONS IN DUKHAN
93	2005	2007	KEMCO	QATAR PETROLEUM	ORYX - GTC PROJECT - 33 KV CABLE INSTALLATION WORKS AT RAS LAFFAN
94	2005	2007	SATCO INTERNATIONAL	QATAR PETROLEUM	GTC 26/2003 EXTENSION OF WATER MAIN AT AL KHOR
95	2005	2007	BOOM CONSTRUCTION	QATAR PETROLEUM	LTC 016 - WIDENING OF JABEL ROAD - DUKHAN
96	2005	2007	GULF CONSOLIDATED CONTRACTORS	QATAR PETROLEUM	LTC 04/113 CONSTRUCTION OF NEW MAIN GATE W/ APPROACH ROAD & RECONSTRUCTION
97	2005	2007	GULF CONSOLIDATED CPNTRACTORS	QATAR PETROLEUM	LTC/09/113 - DESIGN & CONSTRUCTION OF NEW GATE W/ APPROACH ROAD
98	2005	2007	AL ALI PROJECTS	QATAR PETROLEUM	GTC 04/174/FSD - CULVERT WORK AT JALENA DUKHAN
99	2005	2007	AL MUFTAH CONTRACTING COMPANY	QATAR PETROLEUM	GTC 233/ED/03 - CONSTRUCTION OF FIRE STATION # 3 AT RAS LAFFAN
100	2007	2010	BAYTUR CONSTRUCTION CO.	QATAR FOUNDATION [QP] / KEO	QATAR EDUCATION CONVENTION CENTRE AT QATAR FOUNDATION
101	2007	2007	AL JABER TRADING & CONTRACTING CO.	QATAR PETROLEUM	MESAIEED HOUSING PROJECT 2002/EP D01/PACKAGE -2 MESAIEED
102	2007	2007	AL JABER TRADING & CONTRACTING CO.	QATAR PETROLEUM	MESAIEED HOUSING PROJECT PACKAGE -4
103	2007	2007	AL JABER TRADING & CONTRACTING CO.	QATAR PETROLEUM	MESAIEED HOUSING PROJECT EP2002/D01 PACKAGE-3
104	2007	2010	PETROSERV LTD.	QATAR PETROLEUM	BARZAN CAMP SEILIYA
105	2008	2010	BAYINDER QATAR LLC.	QATAR PETROLEUM	GTC 05/217/ED - DUKHAN
106	2008	2010	BAYINDER QATAR LLC.	QATAR PETROLEUM	NEW LPG BOTTLING PLANT AT IND. AREA
107	2008	2012	FERNAS CONSTRUCTION Co	QATAR PETROLEUM	FARNAS CONSTRUCTION Co
108	2008	2010	ENKA	QATAR PETROLEUM	SOIL INVESTIGATION FOR QATAR POLYSILICON
109	2009	2012	FERNAS CONSTRUCTION Co	QATAR PETROLEUM	GTC/07/106/ED EPIC OF CONSOLIDATED GAS SUPPLY WITHIN MESAIEED
110	2009	2014	FERNAS CONSTRUCTION Co	QATAR PETROLEUM	GTC/07/106/ED EPIC OF CONSOLIDATED GAS SUPPLY WITHIN RAS LAFFAN
111	2009	2016	STFA MARINE CONST. CO.	QATAR PETROLEUM	EPIC FOR GABBRO BERTH EXPANSION [PACKAGE # 1] AT MESAIEED
112	2009	2010	DODSAL ENGINEERING	QATAR PETROLEUM	CCWP-2 PROJECT, WING WALL STRUCTURE PUMP HOUSE, RASLAFFAN INDUSTRIAL CITY
113	2009	2012	HYUNDAI ENG	QATAR PETROLEUM	RAS LAFFAN "C" INDEPENDTANT POWER PLANT PROJECT
114	2009	2012	AL MUFTAH CONTRACTING COMPANY	QATAR PETROLEUM	UTILITIES FOR RLC EAST SIDE SSE PHASE 1 & PHASE 2
115	2009	2014	GULF CONSOLIDATED CPNTRACTORS	QATAR PETROLEUM	GC09100100 SLOPE PROTECTION WORKS & PROVIDE CRASH BARRIER FOR ROADS WITHIN DUKHAN
116	2009	2016	STFA MARINE CONST. CO.	QATAR PETROLEUM	EPIC FOR GABBRO BERTH EXPANSION [PACKAGE # 1] AT MESAIEED BERT 3
117	2009	2016	STFA MARINE CONST. CO.	QATAR PETROLEUM	EPIC FOR GABBRO BERTH EXPANSION [PACKAGE # 1] AT MESAIEED BERT 7





LIST SHOWING MATERIAL TESTING CARRIED OUT FOR MAJOR COMPLETED/ONGOING PROJECTS

## MATERIAL TESTING PROJECTS

SI.No.	YEAR		CONTRACTOR	CONSULTANT	NAME OF THE PROJECT
	STARTING	COMPLETING			
118	2009	2014	HYUNDAI ENG	QATAR PETROLEUM	RLIC 'C' INDEPEPMDENT WATER POWER PLANT PROJECT
119	2010	2013	FERNAS CONSTRUCTION Co	QATAR PETROLEUM	GC08112500 EPIC OF GAS SUPPLY TO UMMBAB & DUKHAN (GSDU ) & TO QAFCO - 5
120	2010	2012	AMRAN CP SYSTEM & SERVICES LLC	QATAR PETROLEUM	BOREWELL FOR CATHODE PROTECTION
121	2010	2013	HYUNDAI ENG	QATAR PETROLEUM	RAS LAFFAN "C" INDEPENTDANT POWER PLANT PROJECT
122	2010	2014	GULF CONSOLIDATED CPNTRACTORS	QATAR PETROLEUM	GC08115900 EPIC OF NEW SOUTH ROAD & GRADING OF CORRIDOOR RAS LAFFAN
123	2010	2011	NEW INT. TECHNOLOGY	QATAR PETROLEUM	AREA 1-5, INTERCHANGE-3, DUKHAN FIELD & AREA6, KHATIAH UNDERPASS
124	2010	2013	FERNAS CONSTRUCTION COMPANY	QATAR PETROLEUM	GC 10101300-EPIC of Gas Supply TO MESAIEED CONSUMERS
125	2010	2012	HASSAN JUMA BAKAR TRD & CONT. CO.	QATAR PETROLEUM	EPIC OF RLIC POTABLE WATER STORAGE THANKS & PUMP STATION
126	2011	2013	INSHA CONTRACTNG & TRADING CO.	QATAR PETROLEUM	GC-09110200
127	2011	2014	AL ALI PROJECTS	QATAR PETROLEUM	GC-10102800 - BACKFILL ROADS WITH CULVERT AT MESAIEED
128	2011	ON GOING	AL ALI PROJECTS	QATAR PETROLEUM	GC-08101400 - DUKHAN
129	2011	ON GOING	AL ALI PROJECTS	QATAR PETROLEUM	LC-10108500 - EPIC FOR DUAL READSPINE WITHIN DUKHAN FIELDS
<b>RAS GAS PROJECTS</b>					
130	2003	2004	GENCO	QATAR DESIGN CONSORTIUM	CONSTRUCTION OF NEW ENVIRONMENTAL LABORATORY BUILDNG AT RA LAFFAN INDUSTRIAL CITY
131	2005	2007	GENCO	MAUNSELL CONSULTANCY	AL KHOR HOUSING PROJECT PACKAGE 2
132	2005	2007	GULF CONSOLIDATED CPNTRACTORS	RAS GAS	QATAR GAS DEVELOPMENT PROJECT AT RAS LAFFAN
<b>KAHRAMAA</b>					
133	2003	2005	MIDMAC CONTRACTING Co.	KAHRAMAA	RASLAFFAN PIPELINE & ASSOCIATED WORKS AT BANI HAJAR & WEST BAY
134	2004	2006	GULFAR AL MISNAD ENG. CONT.	KAHRAMAA	GTC 10/2004 - CALL OF CONTRACT FOR ELECTRICITY DISTRIBUTION WORK
135	2004	2006			ERC 110/C1 - STREET LIGHTING FOR NORTH ROAD - UMM AL AMAD
136	2004	2006	VOLTAGE ENGINEERING	DCP/ KAHRAMAA	GTC 32/2001 - 33 KV OHL TO ABU SAMRA
137	2005	2007	TECHNICAL CADERS CO.	KAHRAMAA	GTC 38/2004 - ELECTRICITY DISTRIBUTION WORKS
138	2005	2007	S.S. KUWARI TRADING & CONT. CO.	KAHRAMAA	WO # 2004/520 - CONSTRUCTION OF THREE GATE HOUSE FOR PUMPING STATION
139	2005	2007		KAHRAMAA	DIVERSION OF HV CABES - RAMADA EXTENSION
140	2005	2007	KEMCO	KAHRAMAA	GTC 07/2004
141	2005	2008		KAHRAMAA	GTC 14/2002 -URGENT TRANSMISSION NETWORK REINFORCEMENT
142	2005	2013	GULFAR AL MISNAD ENG. CONT.	KAHRAMAA	GTC 10/2004 - CALL OF CONTRACT FOR ELECTRICITY DISTRIBUTION WORK
143	2005	2007	VOLTAGE ENGINEERING	KAHRAMAA	GTC 32/2001 - 33 KV OHL TO ABU SAMRA
144	2005	2013	GULFAR AL MISNAD ENG. CONT.	KAHRAMAA	ERC 110/C1 - STREET LIGHTING FOR NORTH ROAD - UMM AL AMAD
145	2005	2007		KAHRAMAA	GTC 20/2003
146	2005	2007		KAHRAMAA	GTC 01/2004
147	2005	2007	KEMCO	KAHRAMAA	GTC 14/2003
148	2005	2007		KAHRAMAA	GTC 55/2005
149	2005	2010		KAHRAMAA	GTC/49/2005
150	2005	2012		KAHRAMAA	GTC 37/2004
151	2005	2007	QATAR POWER CONSTRUCTION	KAHRAMAA	GTC 3/2004 CWR # 38
152	2005	2007		KAHRAMAA	GTC 3/2004 CWR # 19
153	2005	2007		KAHRAMAA	GTC 3/2004 CWR # 58
154	2005	2008	KEMCO	KAHRAMAA	MIC TEMPORARY ELECTRICITY SUPPLY FROM M/A S/S 33 kv ROUTE TO SOCCOTHERMS
155	2005	2007	SATCO INTERNATIONAL	KAHRAMAA	GTC 26/2003 EXTENSION OF WATER MAIN AT AL KHOR

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ACCREDITED  
ISO 17025:2005

LIST SHOWING MATERIAL TESTING CARRIED OUT FOR MAJOR COMPLETED/ONGOING PROJECTS

## MATERIAL TESTING PROJECTS

SI.No.	YEAR		CONTRACTOR	CONSULTANT	NAME OF THE PROJECT
	STARTING	COMPLETING			
<b>B.E.D. / MINISTRY PROJECT</b>					
156	2004	2006	GENCO	CONSULTING ENG. GROUP	MODEL SCHOLL AT WEST BAY
157	2004	2006	GENCO	CONSULTING ENG. GROUP	PREPARATORY SCHOOL FOR BOYS AT AL SAAD
158	2004	2006	AL ATTIAH CONT. & TRAD. CO.	GHD GLOBAL	CONSTRUCTION OF MODEL SCHOOL AT AL WAKRAH
159	2004	2006	AL JABER TRADING & CONTRACTING CO.	GHD GLOBAL	ELEMENTARY SCHOOL FOR GIRLS AT GHARAF A
160	2004	2005	AL JABER TRADING & CONTRACTING CO.	GHD GLOBAL	INTERNATIONAL SCHOOL FOR CHOUEIFAT - PHASE # 1
161	2004	2006	AL JABER TRADING & CONTRACTING CO.	GHD GLOBAL	KASEEM DARWISH FAKHROO CENTER FOR THE PRESENTATION OF ISLAM
162	2005	2007	MIDMAC CONTRACTING CO.	KENO INTERNATIONAL	JOB # 516 LOT # 2QATAR FOUNDATION - EDUCATION CITY - CONSTRUCTION DEVELOPMENT
163	2005	2007	AL JABER TRADING & CONTRACTING CO.	BED	EXPANSION & RENOVATION OF HAMAD AQUATIC CENTER PACKAGE 1
164	2005	2007	AL JABER TRADING & CONTRACTING CO.	BED	ELEMENTARY SCHOOL FOR GIRLS AT GHARAF A
165	2005	2007	AL HUD A ENGINEERING WORKS	BED	P # 81 CAPITAL POLICE STATION
166	2005	2007	AL ATTIAH CONT. & TRAD. CO.	BED	CONSTRUCTION OF MODEL SCHOOL AT AL WAKRAH
167	2005	2007	GENCO	CEG	MODERN SCHOOL AT WEST BAY
168	2005	2007	KBAS TRAD. & CONT. CO.	BED	BQC 2004/C1CONSTRUCTION OF CENTRAL LABORATORY FOR QSO
<b>KHALIFA SPORTS CITY</b>					
169	2004	2006	AL BALAGH TRAD. & CONT. CO.	QATAR DESIGN CONSORTIUM	CONSTRUCTION OF SUPER CLUB
170	2004	2006	KBAS CONT. & IND. Co.	PROJACS	KSCDC/220/04 - KHALIFA SPORTS CITY DEVELOPMENT
171	2004	2006	BIN OMRAN TRAD. & CONT.	SPORTS CITY	KHALFI SPORTS CITY TO SHAHANIYAH - ROADS
172	2004	2006	AL MUFTAH CONTRACTING COMPANY	QATAR DESIGN CONSORTIUM	101/04 - MOSQUE (KSC)
173	2004	2006	AL JABER TRADING & CONTRACTING CO.	PROJACS	RENOVATION & EXPANSION OF HAMAD AQUATIC CENTER
174	2004	2006	AL JABER TRADING & CONTRACTING CO.	THE ARAB ARCHITECT	WOMEN'S CLUB SPORTS HALL
175	2005	2007	AL JABER TRADING & CONTRACTING CO.	THE ARAB ARCHITECT	WOMEN'S CLUB SPORTS HALL (KSC)
176	2005	2007	AL JABER TRADING & CONTRACTING CO.	PROJACS	MULTI-PURPOSE TRAINING HALLS
177	2005	2007	AL BALAGH TRAD. & CONT. CO.	SPORTS CITY	CONSTRUCTION OF SUPER CLUB
178	2005	2007	KBAS CONT. & IND. Co.	SPORTS CITY	KSCDC/220/04 - KHALIFA SPORTS CITY DEVELOPMENT
179	2005	2007	MIDMAC CONTRACTING CO.	SPORTS CITY	KSDC/252/04 - DESIGN & CONSTRUCTION OF SPORTS CITY TOWER
180	2005	2007	MIDMAC CONTRACO JV	SPORTS CITY	PROJECT 517 - SPORTS CITY TOWER
181	2005	2007	KBAS CONT. & IND. Co.	SPORTS CITY	KSDC 297/05 - INFRASTRUCTURE WORK AT CEREMONIES COMPOUND
<b>SEWERAGE PROJECTS</b>					
182	2003	2004	MARBU CONTRACTING EST.	ASCO	CP 618 AL WAAB AREA SEWERAGE
183	2003	2005	HBK / SARCO CONTRACTING	MAUNSELL CONSULTANCY SERVICES	CP 393 - DOHA & RAYYAN AREA SEWERAGE
184	2003	2004	LOTUS CONTRACTING Co.	MAUNSELL CONSULTANCY SERVICES	HC 88 INDUSTRIAL AREA
185	2003	2005	HBK CONTRACTING	KAME	CP 675 - INDUSTRIAL AREA SEWERAGE
186	2003	2005	RAZAK CONTRACTING Co.	MAUNSELL CONSULTANCY SERVICES	CP 379/3 DOHA SOUTH SEWERAGE TREATMENT, WORKS PHASE # IV
187	2004	2006	RAZAK CONTRACTING Co.	MAUNSELL CONSULTANCY SERVICES	CP 367 GHARAF A SEWERAGE - PHASE # I
188	2004	2006	TEYSEER CONTRACTING Co.	ASCO	AL DHAKHIRA AREA SEWERAGE
189	2005	2007	TEYSEER CONTRACTING Co.	ASCO	AL DHAKHIRA AREA SEWERAGE
190	2005	2007	RAZAK CONTRACTING Co.	MAUNSELL CONSULTANCY SERVICES	DFC 0171 GHARAF A SEWERAGE
191	2005	2007	RAZAK CONTRACTING Co.	MAUNSELL CONSULTANCY SERVICES	CP 393 INDUSTRIAL AREA SEWERAGE TREATMENT WORKS
192	2005	2007	SATCO INTERNATIONAL	SEWERAGE DEPARTMENT	C 574 - DOHA & RAYYAN SEWERAGE AREA, NORTH RAYYAN

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LIST SHOWING MATERIAL TESTING CARRIED OUT FOR MAJOR COMPLETED/ONGOING PROJECTS

## MATERIAL TESTING PROJECTS

SI.No.	YEAR		CONTRACTOR	CONSULTANT	NAME OF THE PROJECT
	STARTING	COMPLETING			
<b>OTHER PROJECTS</b>					
193	2002	2003	CONSTRUCTION DEVELOPMENT Co.	ARAB ENGINEERING BUREAU	18 VILLAS AT WEST BAY LAGOON - AL FARDHAN REAL ESTATE
194	2004	2005	GULF HOUSING & CONSTRUCTION	ARAB ENGINEERING BUREAU	B + G + 19 FLOOR OFFICE TOWER
195	2004	2005	AL GHORAIRI & PARTNERS	GHD GLOBAL	SULAITI TOWER # 2 - QATAR ISLAMIC BANK
196	2004	2006	AL JABER TRADING	CONSER	PROTECTION FENCING FOR LINK ROADS
197	2004	2006	RAMCO TRAD. & CONT. Co.	GHD GLOBAL	BEVERLY HILLS COMPOUND # 2 (33 VILLAS) FOR SHK. KHALID BIN NASEER AL THANI
198	2004	2006	RAMCO TRAD. & CONT. Co.	PETRO DESIGN QATAR	B + G + M + 11 RESIDENTIAL DEVELOPMENT AT AL GHANIM FOR MR.HAIDER SALIMAN HAIDER
199	2004	2006	AL BALAGH CONTRACTING Co.	ARAB ENGINEERING BUREAU	TOYOTA TOWER - REMEDIAL WORKS AT BASEMENT SLABS
200	2004	2006	GENCO BUILDERS & CONTRACTOR	GULF DESIGN CONCEPT	ARAB DANISH DAIRY
201	2004	2006	GENCO BUILDERS & CONTRACTOR	GULF DESIGN CONCEPT	SHOPS & FLATS AT SALWA ROAD
202	2004	2006	MIDMAC CONTRACTING Co.	M Z & PARTNERS	RESIDENTIAL COMPOUND AT WEST BAY DOHA
203	2004	2006	CONSTRUCTION DEVELOPMENT Co.	ARAB ENGINEERING BUREAU	P - 270 : 138 VILLAS AT ABU SIDRA FOR AL FARDHAN REAL ESTATE
204	2004	2006	AL SEAL TRAD. & CONT. Co.	QATAR DESIGN CONSORTIUM	104 VILLAS - RESIDENTIAL DEVELOPMENT AT AL WAAB
205	2004	2006	AL SEAL TRAD. & CONT. Co.	DARA ENG. CONSULTANTS	140 VILLAS - PROPOSED RESIDENTIAL COMPOUND
206	2004	2006	AL SEAL TRAD. & CONT. Co.	DARA ENG. CONSULTANTS	FOUR SEASON - STAFF ACCOMMODATION AT AL WAAB
207	2004	2006	APCON TRAD. & CONTR. Co.	PRIVATE PROJECT	RESIDENTIAL FLATS - (B + G + 5) - P # 63 AT AL SAAD
208	2005	2007	RAMCO TRAD. & CONT. Co.	PETRA DESIGN	B+G+M+11 - RESIDENTIAL DEVELOPMENT AT AL GHANEEM & AL QADEEM
209	2005	2007	PETROSERV LTD.	CONSULTING ENG. GROUP	DEVELOPMENT OF DOHA SAILING CLUB
210	2005	2007	HBK CONTRACTING	PRIVATE PROJECT	7 VILLA AT AL SAAD
211	2005	2007	GENCO	PRIVATE PROJECT	EXTENSION FOR VILLAS AT GHARAF A
212	2005	2007	GENCO	GULF DESIGN CONCEPT	71 VILLAS AT RAS ABU ABOUD
213	2005	2007	CONSTRUCTION DEVELOPMENT Co.	PRIVATE PROJECT	P-270 - 142 VILLAS AT ABU SIDRA
214	2005	2007	CONFIDENCE ENGINEERING & DEV. CO.	PRIVATE PROJECT	SENIOR STAFF VILLA
215	2005	2007	CONFIDENCE ENGINEERING & DEV. CO.	PRIVATE PROJECT	5 VILLAS AT WEST BAY LAGOON
216	2005	2007	AL JABER TRADING	GHD ENGINEERING ENVIRONMENT	BEVERLY HILLS COMPOUND # 2 (33 VILLAS) FOR SHK. KHALID BIN NASEER AL THANI
217	2005	2007	AL JABER TRADING	W.S. ATKINS & PARTNERS OVERSEAS	RAMADA HOTEL EXTENSION
218	2005	2007	AL SEAL TRAD. & CONT. Co.	PRIVATE PROJECT	ALOKER TOWER AT WEST BAY
219	2005	2007	AL SEAL TRAD. & CONT. Co.	PRIVATE PROJECT	PROPOSED RESIDENTIAL COMPOUND
220	2005	2007	AL SEAL TRAD. & CONT. Co.	PRIVATE PROJECT	FOUR SEASON - STAFF ACCOMMODATION AT AL WAAB
221	2005	2007	APCON TRAD. & CONTR. Co.	PRIVATE PROJECT	RESIDENTIAL FLATS - (B + G + 5) - P # 63 AT AL SAAD
222	2005	2007	AMANA STEEL BUILDING	GULF ENGINEERING & IND CONSULTANTS	J # 86 WAREHOUSE COMPLEX
223	2005	2007	HBK CONTRACTING	PRIVATE PROJECT	VILLA FOR SHK. AHMED BIN HAMAD ALTHANI
224	2005	2007	AL JABER TRADING & CONTRACTING CO.	PRIVATE PROJECT	MULTI PURPOSE TRAINING HALL AT GHARAF A SPORTS CLUB
225	2005	2007	AL JABER TRADING & CONTRACTING CO.	PRIVATE PROJECT	RAYYAN SPORTS CLUB
226	2005	2007	AL JABER TRADING & CONTRACTING CO.	PRIVATE PROJECT	4 MULTI PURPOSE TRAINING AT ITTIHAD SPORTS CLUB
227	2005	2007	AL JABER TRADING & CONTRACTING CO.	PRIVATE PROJECT	QATAR SPORTS CLUB
228	2005	2007	AL MUFTAH CONTRACTING AND TRADING CO.	PRIVATE PROJECT	FSP BURN PIT BUND WALL
229	2005	2007	AL ASAS TRADING & CONT. CO.	PRIVATE PROJECT	DEVELOPMENT OF PLAYGROUND, PACKAGE 2 AT NUAI9JA WEST
230	2005	2006	AL ALI PROJECTS	PRIVATE PROJECT	SAILIYAH MOSQUE
231	2005	2006	AL WAFAQ TRADING & CONT. CO.	PRIVATE PROJECT	91 VILLA AT SOUTH DUHAIL & GHARAF A

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LIST SHOWING MATERIAL TESTING CARRIED OUT FOR MAJOR COMPLETED/ONGOING PROJECTS

## MATERIAL TESTING PROJECTS

SI.No.	YEAR		CONTRACTOR	CONSULTANT	NAME OF THE PROJECT
	STARTING	COMPLETING			
232	2005	2006	HBK CONTRACTING	PRIVATE PROJECT	8 STORY RESIDENTIAL BUILDING AT MANSOURA
233	2005	2008	MIDMAC CONTRACTING Co.	MZ & PARTNERS	514 RESIDENTIAL COMPOUND AT WEST BAY
234	2005	2008	MIDMAC CONTRACTING Co.	PRIVATE PROJECT	CP 675 - INDUSTRIAL AREA
235	2005	2007	AL HOTY - STRANGER LTD CO.	PRIVATE PROJECT	NEW DOHA INTERNATIONAL AIRPORT
236	2005	2007	BOOM CONSTRUCTION	PRIVATE PROJECT	GTC 189/ED/03 EPIC OF AN INDEPENDENT FLARE FOR QJA
237	2005	2007	BOOM CONSTRUCTION	PRIVATE PROJECT	MOTOR CYCLE RACE TRACK, LOSAIL INTERNATIONAL CIRCUIT
238	2005	2007	AL BALAGH CONTRACTING Co.	CEG	DEVELOPMENT OF QATAR EQUESTRIAN FEDERATION FACILITIES
239	2005	2007	MIDMAC CONTRACTING Co.	KEO INTERNATIONAL	JOB # 518 TEXAS A& M COLLEGE OF ENGINEERING IN QATAR
240	2005	2007	MIDMAC CONTRACTING Co.	PRIVATE PROJECT	PROJ. 506 RESERVOIR ASSOCIATED WORK AT WEST BAY
241	2005	2007	MIDDLE EAST ENGINEERING	PRIVATE PROJECT	DRILLING WORKS AT WADI SAIL
242	2005	2007	GULF BEACH TRAD. & CONT. CO.	PRIVATE PROJECT	G + 6 RESIDENTIAL BUILDING AT UMM GHUWAILINA
243	2005	2007	KBAS CONTRACTING & TRAD. CO.	PRIVATE PROJECT	AL JAZEERA TV PARKING STATION
244	2005	2006	KBAS CONTRACTING & TRAD. CO.	PRIVATE PROJECT	40 VILLAS AT RAS ABU ABOUD
245	2005	2008	AL SEAL TRAD. & CONT. Co.	PRIVATE PROJECT	WEST BAY LAGOON PLAZA
246	2005	2007	CONSTRUCTION DEVELOPMENT Co.	PRIVATE PROJECT	P - 282 51 VILLAS
247	2005	2007	AL ATTIYAH CONT. & TRAD. CO.	PRIVATE PROJECT	28 + 11 COMMERCIAL VILLAS AT ABU HAMOUR
248	2005	2006	GULF HOUSING & CONSTRUCTION	DIA / DAR AL HANDASAH	DOHA INTERNATIONAL AIRPORT UPGRADE WORKS - TERMINAL BUILDING
249	2005	2007	AMANA STEEL BUILDING	GEIC	COLD STORAGE PROJECT AT 15TH STREET INDUSTRIAL AREA
250	2005	2006	GULF HOUSING & CONSTRUCTION	DIA / DAR AL HANDASAH	NEW DOHA INTERNATIONAL AIRPORT
251	2005	2007	AL KASEM GROUP	PRIVATE PROJECT	CONST. OF B+ G 2 STORY BUILDING AT "D" RING ROAD
252	2007	2008	AMANA STEEL BUILDING	MIC / KEO	LOGISTIC TERMINAL AT MESAIEED
253	2010	2010	REDCO CONSTRUCTION - AL MANA	-	SHOWCASE STADIUM PROJECT AT ABU HAMUR
254	2010	2014	REDCO CONSTRUCTION - AL MANA	-	BUSINESS PARK & HOTEL FACILITIES PROJECT
255	2010	2015	REDCO CONSTRUCTION - AL MANA	-	DEVELOPMENT OF BARZAN CAMP PROJECT
256	2011	2014	YUKSEL CONSTRUCTION & TRADING CO.	-	EMBASSY OF THE REPUBLIC OF THE TURKEY CONSTRUCTION PROJECT
257	2011	ON GOING	AL ALI PROJECTS	-	PROJECT NO.:268 PROPOSED SHOPPING COMPLEX @ INDUSTRIAL AREA
258	2011	ON GOING	AL ALI PROJECTS	-	ROAD MAINTENANCE WORKS ON A CALL OFF BASIS
259	2013	2013	QATAR OIL FIELD SUPPLY CENTER	PRIVATE PROJECT	BUILDING PROJECT
260	2013	2014	Redco Construction Al Mana		[ABRAG – 2 Nos.] at Pearl Qatar
261	2013	2014	Petroserv Limited		Qatar Navigation Boundary Wall & Construction of Process Building at New Industrial Area
262	2013	ON GOING	Petroserv Limited		Al Khor Sewerage Extension to Al Khor Sewage Treatment Works – Phase II
263	2013	2015	Redco Construction Al Mana		Western Green Spine at Education City Doha, State of Qatar
264	2013	2015	Redco Construction Al Mana		Built & Design of Qatar Foundation Research and Development Complex.
265	2013	2014	INKA Yapı Baglantı Elemanları		Education City & Rayyan- Doha.
266	2014	2016	Redco Construction Al Mana	PRIVATE PROJECT	ABM MILITARY COLLEGE
267	2015	ON GOING	Redco Construction Al Mana	PRIVATE PROJECT	Underground Car Parking (West) Souq Waqif Project
268	2015	ON GOING	Gulf Consolidated Company	PRIVATE PROJECT	New Doha Port to Orbital Highway -P023
269	2015	ON GOING	Al Muffah Contracting Company W.I.I.	PRIVATE PROJECT	Construction of Al Meera Convenience Store at Umm Salal Ali & Al Wakra
270	2015	ON GOING	Al Muffah Contracting Company W.I.I.	PRIVATE PROJECT	Al Meera Leabib Project
271	2015	ON GOING	Power Line Engineering Qatar	PRIVATE PROJECT	Porto Arabia 13A & 13B _ Pearl Qatar
272	2015	ON GOING	Al Muffah Contracting Company W.I.I.	PRIVATE PROJECT	Waqod Fuel Station at Airport City
273	2015	ON GOING	City Engineering & Contracting Co.	PRIVATE PROJECT	-

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LIST SHOWING MATERIAL TESTING CARRIED OUT FOR MAJOR COMPLETED/ONGOING PROJECTS

## MATERIAL TESTING PROJECTS

SI.No.	YEAR		CONTRACTOR	CONSULTANT	NAME OF THE PROJECT
	STARTING	COMPLETING			
274	2015	ON GOING	Al Muffah Contracting Company W.I.I.	PRIVATE PROJECT	Car Showroom and Office Building at D Ring Road J 220
275	2016	ON GOING	Kemco Electrical & Mechanical Est.	PRIVATE PROJECT	GTC/642D/201 - Qatar Power System Expansion
276	2016	ON GOING	Bouygues Construcion	PRIVATE PROJECT	IDRIS PROJECT
277	2016	ON GOING	Al Muffah Contracting Company W.I.I.	PRIVATE PROJECT	GTC/488G/2012 Qatar Power Transmission System Expantion - Bu Fasilah Substation
278	2016	ON GOING	Al Muffah Contracting Company W.I.I.	PRIVATE PROJECT	TC/ENG/124/07/15 - Construction of Woqod Fuel Station and Vehicle Inspection - Al Wukair Area
279	2016	ON GOING	Al Muffah Contracting Company W.I.I.	PRIVATE PROJECT	TC/ENG/115/16/05 - Construcion of Woqod Fuel Station at Al Mashaf Area
280	2016	ON GOING	Al Muffah Contracting Company W.I.I.	PRIVATE PROJECT	Construction of Wakrah North Substation- Package S-13
281	2016	ON GOING	Al Muffah Contracting Company W.I.I.	PRIVATE PROJECT	Construcion of Al Meera New Building Convenience Store at Um-Qarn
282	2016	ON GOING	Al Muffah Contracting Company W.I.I.	PRIVATE PROJECT	Construcion of Al Meera New Building Convenience Store at Azhgawa
283	2016	ON GOING	Al Muffah Contracting Company W.I.I.	PRIVATE PROJECT	Construcion of Al Meera New Building Convenience Store at Aba El Heran
284	2016	ON GOING	Al Muffah Contracting Company W.I.I.	PRIVATE PROJECT	Construcion of Al Meera New Building Convenience Store at Al Lebaib 1
285	2016	ON GOING	Redco Construction Al Mana	Shaker Consultancy Group	Viva Bahriya Tower Package 1; Tower 12 & 13 at the Pearl Qatar
286	2016	ON GOING	Redco Construction Al Mana	Arab Engineering Bureau (AEB)	Le Mirage Residential Development 5 Buildings (2B+G+7+TECH) Porject
287	2016	ON GOING	Redco Construction Al Mana	Arab Engineering Bureau (AEB)	Al Khaliji Headquater (3B+G+26G) at Mix -040 Lusail Marina Project
288	2017	ON GOING	Castle Construction W.I.I.	Arab Engineering Bureau (AEB)	Road Works at Al Meera Convenience Store - Umm Qaran, Azhgawa, Rawdat & Leabaib
289	2017	ON GOING	Doha Intertek	Private Engineering Office (PEO)	Al Khor Expressway
290	2017	ON GOING	Al Muffah Contracting Co, W.I.I.	KAHRAMAA	GTC/643G/2014 13211 KV Substation (Phase 12, Pkg. S13 at Umm Al HouI)
291	2017	ON GOING	Al Muffah Contracting Co, W.I.I.	KAHRAMAA/ PARSONS	GTC/643G/2014 13211 KV Substation (Phase 12, Pkg. S13 at Ras Abu Fontas)
292	2017	ON GOING	Al Muffah Contracting Co, W.I.I.	QATAR DESIGN CONSORTIUM	PROPOSED VILLA
293	2017	ON GOING	Redco Construction Al Mana	AL BAKER ARCHITECTURE	Al Baker Tower 1 & 2 @ Al Dafna, West Bay
294	2017	ON GOING	TEKFEN CONSTRUCTION CO.	Private Engineering Office (PEO)	Al Khor Expressway
<b>APPROVED SITE LABORATORIES</b>					
295	2011	2014	YUKSEL MIDMAC JV	ASHGHAL	RA 07/08 C 005G, DOHA EXPRESSWAY, PACKAGE-7
296	2007	2011	TEKFEN CONSTRUCTION CO.	DAR AL-HANDASAH	QATAR PRIMARY ROUTES NORTH ROAD
297	2010	2011	TEKFEN CONSTRUCTION CO.	KEO INTERNATIONAL CONSULTANT	CEREMONIAL NATIONAL DAY ROAD PROJECT
298	2011	2014	TEKFEN CONSTRUCTION CO.	ASHGHAL/ KEO	ADDITIONAL COMPLETION WORK FOR NORTH ROAD PROJECT
299	2014	ON GOING	TEKFEN CONSTRUCTION CO.	ASHGHAL/ KEO	DESIGN AND CONSTRUCT SERVICE ROAD ENHANCEMENT TO NORTH ROAD CORRIDOR - P-059
300	2014	ON GOING	DOGUS - ONUR JV	ASHGHAL	CONSTRUCTION AND UPGRADE OF AL RAYYAN ROAD PROJECT 7

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LIST FOR MAJOR COMPLETED/ON-GOING PROJECTS

## 1. WATER STERILIZATION TEST

Si.No.	YEAR		CONTRACTOR	CLIENT / CONSULTANT	NAME OF THE PROJECT
	STARTING	COMPLETING			
1	2005	2007	KBAS CONTRACTING CO.	PRIVATE PROJECT	AL JAZEERA TV PARKING STATION.
2	2007	2008	PETROSERV LIMITED	QATAR PETROLEUM	MMIV POTABLE WATER STORAGE TANK AT DUKHAN
3	2009	2010	PROMER QATAR	QATAR PETROLEUM	CONSTRUCTION OF INSPECTION YARD IN OFFICES AT DOHA PORT

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## LIST FOR MAJOR COMPLETED/ON-GOING PROJECTS STEEL REBAR, TENSILE TENDONS & PT STRAINS

SI.No.	YEAR		CONTRACTOR	CLIENT / CONSULTANT	NAME OF THE PROJECT	CONTACT DETIALS
	STARTING	COMPLETING				
1	2014	2015	YUKSEL CONSTRUCCION	QATAR FOUNDATION	PMS VIA DUCT PROJECT	Mr. Saber Shaikh TEL: 4443 1878 Email: sshaikh@yuksel.net
2	2014	2014	SYSTEM INSAAT LTD.	QATAR ARMED FORCE	NATIONAL SERVICE ACCOMMODATION FOR CADET IN HAMED MECHANISED REGIMENT AT NORTH CAMP.	ABDUL SAHIM - 77990044 Email: kdaltun@system.com.tr
3	2014	2015	REDCO CONSTRUCTIN AL MANA	QATAR FOUNDATION	WESTERN GREEN SPINE PROJECT	Tel: 4469 0276 Email: info@redcoalmana.com
4	2014	2015	REDCO CONSTRUCTIN AL MANA	QATAR FOUNDATION	RESEARCH AND DEVELOPMENT COMPLEX PROJECT	Tel: 4469 0276 Email: info@redcoalmana.com
5	2014	2015	PROMER QATAR	ASHGHAL	CONSTRUCTIN OF MASJID & IMAM HOUSE	Tel: 4431 0547 Email: mcan@promerqatar.com
6	2014	2015	POWERLINE ENGINEERING	NASER BIN FATEH AL THANI	PORTO ARABIA PARCEL 13A & 13B	Tel: 4432 8686 Email: erhan@ekermen.com
7	2014	2015	STFA MARINE CONSTRUCTION	QATAR PETROLEUM	REPAIR OF WHARVES & JETTIES PROJECT	Tel: 44 83 4050 Email: joelc@stfa.com
8	2014	ON GOING	DOGUS - ONUR JV	ASHGHAL / EGIS	CONSTRUCTION & UPGRADE OF RAYYAN ROAD PROJECT 7	Tel: 4029 4378 Email: dursuno@dogusinsa.com.tr
9	2015	2015	REDCO CONSTRUCTIN AL MANA	AECOM/ HALUL REALESTATE	DOHA OASIS MIXED USE DEVELOPMENT PROJECT	Tel: 4469 0276 Email: info@redcoalmana.com
10	2015	ON GOING	GULF CONSOLIDATED CONTRACTORS	ASHGHAL/ KAWSP	QN003 ROAD & INFRASTRUCTURE FOR COMMERCIAL STREET IN AL KHOR AREA	Tel: 4444 1242 Email: nakkeeran.peri@wadeadams.com
11	2015	ON GOING	PROMER QATAR	ASHGHAL	AL KHOR TRANSFER STATION	Tel: 50395846 Email: mcan@promerqatar.com
12	2015	ON GOING	J & P	ASHGHAL	CONSTRUCTION OF WEST CORRIDOR P-010, PACKAGE 1	Tel: 4455 1017 Email: y.colnacos@jandp.com.qa
13	2015	ON GOING	AL MUFTAH COTRACTING COMPANY	AL MEERA/ AEB	AL MEERA UMM SALAL ALI PROJECT	Mr. Khaled El Hajj - Tel: 4422 3374 Email: khaled_elhajj@almuftah.com
14	2016	ON GOING	REDCO CONSTRUCTIN AL MANA	PRIVATE ENGINEERING OFFICE	DESIGN & BUILDING OF UNDERGROUND PARK	Tel: 4469 0276 Email: info@redcoalmana.com
15	2016	ON GOING	REDCO CONSTRUCTIN AL MANA	ARAB ENGINEERING BUREAU	LE MIRAGE RESIDENTIAL DEVELOPMENT PROJECT	Tel: 4469 0276 Email: info@redcoalmana.com

16	2016	ON GOING	AL MUFTAH CONTRACTING COMPANY	KAHRAMAA	BU FASEELA SUB STATION PROJECT	Mr. Khaled El Hajj - Tel: 4422 3374 Email: khaled_elhajj@almuftah.com
17	2016	ON GOING	AL MUFTAH CONTRACTING COMPANY	KAHRAMAA	AL MERGAB STREET SUBSTATION	Mr. Khaled El Hajj - Tel: 4422 3374 Email: khaled_elhajj@almuftah.com
18	2016	ON GOING	AL MUFTAH CONTRACTING COMPANY	AEB	UMM QARAN PROJECT	Mr. Khaled El Hajj - Tel: 4422 3374 Email: khaled_elhajj@almuftah.com
19	2016	ON GOING	NAVAYUGA ENGINEERING	AEC/ HAWAR REAL ESTATE	COMMERCIAL BUILDING AT ECQ PROJECT	Tel: 4450 7374 Email: necl_qatar@navayuga.com
20	2016	ON GOING	NAVAYUGA ENGINEERING	AEC/ HAWAR REAL ESTATE	RESIDENTIAL BUILDING PROJECT AT AL SAAD	Tel: 4450 7374 Email: necl_qatar@navayuga.com
21	2016	ON GOING	J & P - [Rizzani De Eccher]	ASHGHAL	NEW ORBITAL HIGHWAY & TRUCK ROUTE (PROJECT 23-C1)	Mr. C.J. Bose - Tel: 4471 9852 Email: bose@rde.it



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LIST FOR **MAJOR** COMPLETED/ON-GOING PROJECTS

## 1. WATER WELL DRILLING, PUMP TESTING AND GROUND WATER MONITORING

SI.No.	YEAR		CONTRACTOR	CLIENT / CONSULTANT	NAME OF THE PROJECT
	STARTING	COMPLETING			
<b>GOVERNMENT &amp; OTHER PROJECTS</b>					
1	2007	2007	KEPEL SEGHERS ENGINEERING	MMAA	DOMESTIC SOLID WASTE MANAGEMENT PROJECT AT MESAIEED AREA - DRILLING OF WATER WELLS, PUMPING TESTS - CONSTANT HEAD & STEP DRAW DOWN TEST & REPORT
2	2007	2008	KEPEL SEGHERS ENGINEERING	MMAA	DOMESTIC SOLID WASTE MANAGEMENT PROJECT AT MESAIEED AREA [DEWATERING & GROUND WATER MONITORING]
3	2007	2008	BILFINGER BERGER - AL HAMAD JOINT VENTURE	ASHGHAL/MOUNSELL	DOHA EXPRESS WAY: 22nd FEBRUARY STREET ALAMIR TREET UPGRADE & INTERCHANGE WORKS, DRILLING OF WATER WELLS, PUMP INSTALLATION & TESTING. 3 PUMPING STATIONS - AL RAYYAN PUMPING STATION, AL JAWAN PUMPING STATION & OMAR BIN KHATTAB PUMPING STATION
4	2010	2010	STFA MARINE CONSTRUCTION CO.	-	EPIC FOR CONTAINER TERMINAL AT MESAIEED -WELL DESIGN FOR WATER WELL DRILLING & GROUND WATER MONITORING
5	2010	2011	GULF BEACH TRADING & CONTRACTING CO. WLL	PARSONS	LUSAIL DEVELOPMENT PROJECT - WELL DESIGN FOR WATER WELL DRILLING & GROUND WATER MONITORING
6	2011	2015	PROMER QATAR CONTRACTING CO.	ASHGHAL	AL KHOR KARWA PROJECT - WELL DESIGN FOR WATER WELL DRILLING & GROUND WATER MONITORING
7	2011	2015	PROMER QATAR CONTRACTING CO.	SHEIK NASSER BIN FALEH AL-THANI GROUP	PROTO ARABIA - PARCEL 13A & 13B[PODIUM & TOWER] PROJECT - WELL DESIGN FOR WATER WELL DRILLING & GROUND WATER MONITORING
8	2014	2015	HYUNDAI ENGINEERING & CONSTRUCTION CO.	AECOM	QEZ 3 CANAL EXCAVATION QUAY WALL AND CHANNEL DREDGING, MESAIEED NEW PORT
9	2014	2015	REDCO CONSTRUCTION ALMANA	ARAB CONSULTING ENGINEER	THE BREEDING FARM PROJECT AT ZUBARA, SAMAL ROAD
10	2016	2016	NAVAYUGA ENGINEERING CO.	HAWAR REAL ESTATE	CONSTRUCTION, COMPLETION & MAINTENANCE OF THE CORE & SHELL OF B+G+M+4 - AL SAAD
11	2016	2016	NAVAYUGA ENGINEERING CO.	HAWAR REAL ESTATE	3B+G+3+PH BUILDING AT ECQ - LUSAIL



## LIST FOR MAJOR COMPLETED/ON-GOING PROJECTS 2. GEOTECHNICAL ENGINEERING PROJECTS

SI.No.	YEAR		CONTRACTOR	CLIENT / CONSULTANT	NAME OF THE PROJECT
	START	COMPLETION			
1	2006	2007	LEIGHTON CONSTRUCTION QATAR	KEO INTERNATIONAL	PRIVATIZATION OF CLEANING SERVICES & WASTE TREATMENT FACILITIES-MESAIEED
2	2006	2006	AL MUFTAH TRADING & CONTRACTING CO.	QATAR PETROLEUM	NEW EDR PORTACABIN OFFICE AT RASLAFFAN INDUSTRIAL CITY
3	2007	2007	FERNAS CONSTRUCTION CO.	QATAR PETROLEUM	GTC07/106/ED EPIC CONSOLIDATED GAS SUPPLY WITHIN MESAIEED AND RAS LAFFAN
4	2007	2007	FERNAS CONSTRUCTION CO.	QATAR PETROLEUM	GTC 07 / 106 / ED / FQ / GEN / L-004 -EPIC CONSOLIDATED GAS SUPPLY WITHIN MESAIEED AND RAS LAFFAN
5	2007	2008	KEPPEL SEGHERS ENG. SINGAPORE Ptv. Ltd.	MMAA	PRIVATIZATION OF CLEANING SERVICES & WASTE TREATMENT FACILITIES-DOHA SOUTH
6	2007	2008	AL JABER TRADING & CONTRACTING CO.	ASHGHAL	AL KHOR KARWA PROJECT - DEWATERING & GROUND WATER MONITORING WORKS
7	2007	2007	AL SEAL CONSTRUCTION CO.	PRIVATE PROJECT	VILLA PROJECT ATPEARL - DOHA CITY
8	2007	2007	HASSANESCO CONTRACTING	PRIVATE PROJECT	2B+G+M+14 STOREY BUILDING AT OLD STATION - DOHA CITY
9	2007	2007	KEPEL SEGHERS ENGINEERING	MMAA	DOMESTIC SOLID WASTE MANAGEMENT PROJECT AT MESAIEED AREA
10	2007	2008	KEPEL SEGHERS ENGINEERING	MMAA	DOMESTIC SOLID WASTE MANAGEMENT PROJECT AT MESAIEED AREA
11	2007	2007	KEPEL SEGHERS ENGINEERING	MMAA	DOMESTIC SOLID WASTE MANAGEMENT PROJECT AT MESAIEED AREA
12	2007	2007	BQ QATAR	QATAR PETROLEUM	GTC 06/138/ED CONSTRUCTION OF WORKSHOPS WAREHOUSE AOFFICE @QP FSA DUKHAN
13	2007	2007	AL MUFTAH TRADING & CONTRACTING CO.	QATAR PETROLEUM	GTC 07/150/ED-EPIC FOR LOCAL FIRE FIGHTING TRAINING FACILITY AT FIRE STATION #2
14	2008	2008	KEPEL SEGHERS ENGINEERING	MMAA	DOMESTIC SOLID WASTE MANAGEMENT PROJECT AT MESAIEED AREA
15	2008	2008	AL MUFTAH TRADING & CONTRACTING CO.	QATAR PETROLEUM	WOQOD PETROL STATION AT DUKHAN
16	2008	2008	KEPPEL SHEGHERS ENGINEERING	QATAR PETROLEUM	PRIVATIZATION OF CLEANNG SERVICES & WASTE TREATMENT FACILITIES DOHA - DOMESTIC SOLID WASTE MANAGEMENT CENTRE - DOHA SOUTH AREA TRANSFER STATION AT DOHA SOUTH
17	2008	2008	QATAR PETROLEUM	QATAR PETROLEUM	EXISTING CONCRETE BLOCKS AT NEW SERVICES BERTHS 1 TO 7 IN RAS LAFFAN
18	2008	2008	ENKA INSAAT VE SANAYI A.S.	QATAR FOUNDATION	QA 302 - QATAR POLYSILICON PROJECT AT RAS LAFFAN INDUSTRIAL CITY [RLIC]
19	2008	2008	PROMER QATAR	ASHGHAL	RENOVATION OF AL KHOR MUNICIPALITY BUILDING
20	2008	2009	PROMER QATAR	ASHGHAL / CEG	QATAR GENERAL ORGANISATION FOR STANDARTS & METROLOGY BUILDING, ABU HAMMOUR ROAD
21	2009	2009	STFA MARINE CONSTRUCTION	QATAR PETROLEUM	EPIC 4 FOR GABBRO BERTH EXPANSION, PACKAGE - 1
22	2009	2009	AL FREEJ CONSULTANCY & DESIGNS	AL FREEJ CONSULTANCY & DESIGNS	CONSTRUCTION OF TWO STOREY WILLA AT WAST BAY
23	2009	2009	AL FREEJ CONSULTANCY & DESIGNS	-	CONSTRUCTION OF VILLA (B+G+1) FOR Mrs. AMINA AL DARWISH AT WESTBAY LAGOON
24	2009	2009	PROMOR QATAR CONTRACTING CO.	-	CONSTRUCTION OF INSPECTION AND OFFICES AT DOHA PORT
25	2009	2010	PROMER QATAR	ASHGHAL	CONSTRUCTION OF LABORATORY BUILDING AT ABU HAMOUR
26	2009	2010	PROMER QATAR	ASHGHAL	CONSTRUCTION OF FISH MARKET - DOHA
27	2009	2010	PROMOR QATAR CONTRACTING CO.	ASHGHAL	C 2009/25 CONSTRUCTION OF GRAVE YARD AT MESSEMEER
28	2009	2009	VENTURE GULF (OIL & GAS DIVISION)	-	EXTENSION YARD AT STREET #24 INDUSTRIAL AREA
29	2009	2009	KBAS CONTRACTING & TRADING CO.	QP	TARQ STREET MODIFCTIONS AT RAS LAFFAN
30	2009	2009	AL MUFTAH TRADING & CONTRACTING CO.	MR.ABDULRAHM / SOUTHWEST ARCHITECTURE	HOTEL & OFFICE BUILDING [2B+G+7] AT BIN MAHMOUD AREA
31	2009	2009	GULF CONSOLIDATED CONTRACTORS (GCC)	QATAR PETROLEUM	GC0900100 SLOPE PROTECTION WORKS AND PROVIDE CRASH BARRIERS FOR THE ROADS WITHIN DUKHAN
32	2010	2010	REDCO CONSTRUCTION AL MANA	MZ & PARTNERS	DEVELOPMENT OF BARZAN CAMP, PHASE #1, PACKAGE #3, HOUSING COMPLEX AT AL WAJBA
33	2010	2010	MR. EMAD A. AL-DARWISH	MR. EMAD A. AL-DARWISH	3B+G+M+10 STOREY BUILDING AT AL MIRGAB
34	2010	2010	NUSSLI [CHWEIZ] AG, SWITZERLAND	ALPINE ENERGIE CONSULTANT	CONSTRUCTION OF EXIBITION HOLE AT ISLAMIC MUSEUM YARD
35	2010	2014	GULF CONSOLIDATED CONTRACTORS (GCC)	QATAR PETROLEUM	MIC GT09100600 PACKAGE 6
36	2010	2011	NEW INTERNATIONAL TECHNOLOGY CO	QATAR PETROLEUM	AREA-1-5, INTERCHANGE 3, DUKHAN FIELDS 7 AREA 6, KHARTIYAH UNDERPASS
37	2010	2011	GULF BEACH TRAD. & STFA MARINE JV		LUSAIL PROJECT
38	2010	2011	HYUNDAI ENGINEERING & CONSTRUCTION CO.	RGPC	RAS LAFFAN "C" INDEPENDENT WATER POWER PLANT PROJECT
39	2010	2010	AL MUFTAH TRADING & CONTRACTING CO.	-	GC09101600 EPIC FOR UTILITIES FOR SSA EAST SIDE PHASE #1 & PHASE #2 AT RAS LAFFAN INDUSTRIAL CITY

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## LIST FOR MAJOR COMPLETED/ON-GOING PROJECTS 2. GEOTECHNICAL ENGINEERING PROJECTS

SI.No.	YEAR		CONTRACTOR	CLIENT / CONSULTANT	NAME OF THE PROJECT
	START	COMPLETION			
40	2010	2010	GULF CONSOLIDATED CONTRACTORS (GCC)	QATAR PETROLEUM	GC09101600 EPIC OF NEW SOUTH ROADS & GRADING OF CORRIDOR AT RAS LAFFAN INDUSTRIAL CITY
41	2010	2010	AL JABER TRADING & CONTRACTING CO.	CEG	DUKHAN HOUSING, PHASE # VII, PACKAGE # 2 AT DUKHAN
42	2010	2010	FERNAS CONSTRUCTION CO.	QP / PENSPEN INTERNATIONAL LTD.	GC 08112500 EPIC OF GAS SUPPLY TO UMM-BAB & DUKHAN (GSUD) GAS SUPPLY TO QAFCO-5, FLARE AREA AT STATION 1, UMM-BAB
43	2010	2011	INSHA CONTRACTING & TRADING WLL	QATAR PETROLEUM	CONSTRUCTION OF NEW ENVIRONMENTAL LABORATORY BUILDNG AT RA LAFFAN INDUSTRIAL CITY
44	2011	2011	AL MUFTAH TRADING & CONTRACTING CO.	QATAR PETROLEUM	GC10112400-EPIC FOR PROVIDING PERMENANT POWER SUPPLY TO QATAR GAS-II CAMPS, WASTE WATER TREATMENT PLANT & ADDITIONAL FEEDER TO MAIN GATEHOUSE AT RLIC
45	2011	2012	PROMER QATAR CONTRACTING CO.	Shk. Nasser Bin Faleh Al-Thani Group	PROTO ARABIA - PARCEL 13A & 13B[PODIUM & TOWER] PROJECT - DEWATERING & GROUND WATER MONITORING WORKS
46	2012	2012	TEKFEN CONSTRUCTION CO.	KEO/PEO	CEREMONIAL NATIONAL DAY ROAD PROJECT
47	2012	2012	AL MUFTAH TRADING & CONTRACTING CO.	QATAR GAS	GC-10112400-EPIC FOR PROVIDING PERMANENT POWER SUPPLY TO QATAR GAS
48	2012	2012	AL MUFTAH TRADING & CONTRACTING CO.	QATAR GAS	AL MEERA HAZIM AL MARKHIYA
49	2012	2012	GULF CONSOLIDATED CONTRACTORS (GCC)	QP	EPIC OF TEMPORARY SAFETY IMPROVEMENT TO EXISTING SEA LINE
50	2012	2012	REDCO CONSTRUCTION AL MANA	QATAR FOUNDATION/ PARSONS	CONSTRUCTION OF WESTERN GREEN SPINE @ EDUCATON CITY QATAR FOUNDATION
51	2013	2013	REDCO CONSTRUCTION AL MANA	QATAR FOUNDATION/ PARSONS	CP 14-3 THE PEARL QATAR FIRE STATION BUILDING AT VIVA BAHRIYA
52	2013	2013	REDCO CONSTRUCTION AL MANA	PRIVATE ENGINEERING OFFICE/ EHAF	DESIGN AND BUILD OF MAJLIS AT LUSAIL VILLA
53	2013	2016	CHINA HARBOUR	HALCROW	CONSTRUCTION OF EAST CORRIDOR,P 011 PACKAGE-2, QATAR GEOPHYSICAL INVESTIGATION WORK
54	2014	ONGOING	DOGUS	ASHGHAL/EGIS	CONSTRUCTION & UPGRADE OF AL RAYYAN ROAD, PROJECT-7
55	2014	2014	AL ALI PROJECT	QATAR PETROLEUM	GC-12113500 EPIC OF ROAD UPGRADE FROM STP TO HERITAGE BUILDING, FIRE TRAINING GROUND & NEW LAY BAY
56	2014	2015	HYUNDAI ENGINEERING & CONSTRUCTION CO.	AECOM	QEZ 3 CANAL EXCAVATION QUAY WALL AND CHANNEL DREDGING, MESAIEED NEW PORT
57	2015	2015		EMAD A. AL DARWISH	G+1 VILLA AT PLOT 64, LAGTAIFIYA
58	2016	2016	IMARITSNBUL CONTRACTIONG CO.	ROYAL QATAR AIR FORCE	AEROMEDICAL CENTRE AT ROYAL QATAR AIRFORCE TRAINING CENTER AL UDEID
59	2016	2016	-	ENERGY CITY	OFFICE BUILDING AT AL WAAB
60	2016	ONGOING	AL ALI CONSTRUCTION		CONSTRUCTION OF SEA BUND AT AL JASSASIYA PALACE
61	2016	2016	ENERGY & ENVIRONMENT ENGINEERING -3E		AL MAHA ANTISEPTIC MANUFACTURING FACILITIES

## LIST FOR MAJOR COMPLETED/ON-GOING PROJECTS

### 3. DRILLING WORKS & PROJECTS

SI.No.	YEAR		CONTRACTOR	CLIENT / CONSULTANT	NAME OF THE PROJECT
	STARTING	COMPLETING			
1	2005	2007	MIDDLE EAST ENGINEERING	-	DRILLING WORKS AT WADI SAIL
2	2006	2007	LEIGHTON CONSTRUCTION QATAR	KEO INTERNATIONAL	AL SHAQAB ACADEMY-EDUCATION CITY,DOHA-QATAR
3	2007	2007	SAMKO INTERNATIONAL W.L.L.	-	GTC05/217/ED DESIGN OF STRUCTURES AND CONST. OF W.SHOPS ,W.HOUSE &OFFICE AT QPSFA,DUKHAN
4	2007	2008	AL MUFTAH CONTRACTING CO.	WOQOUD	WOOQUD PETROL STATION AT DUKHAN
5	2007	2008	AL MUFTAH CONTRACTING CO.	WOQOUD	TC/14/03/07 - CONSTRUCTION OF NAIJA PETROLL STATION
6	2007	2008	BILFINGER BERGER-AL HAMAD JOINT VENTURE	ASHGHAL	AL KHOR KARWA PROJECT - DEWATERING & GROUND WATER MONITORING WORKS
7	2007	2008	FERNAS CONSTRUCTION CO.	QP	GTC/07/106/ED EPIC OF CONSOLIDATED GAS SUPPLY WITHIN MESAIEED
9	2007	2007	RAS LAFFAN IND. CITY	QP	NEW SERVICE BERTH-1 to 7 IN RAS LAFFAN
10	2007	2007	KEPPEL SEGHERS	MMAA	PRIVATIZATION OF CLEANING SERVICES & WASTE TREATMENT FACILITIES
11	2007	2008	EL SEIF & QUALITY CONTRACTING TRADING Co.	-	P89 QATAR SILHOUETTE TOWER PROJECT
12	2007	2008	GAMA QATAR	QATAR GAS	QATARGAS 3 & 4 ONSHORE PROJECT (QCS)-UTILITIES, OFFSITE & OFFPLOT
13	2007	2008	KEPPEL SEGHERS	MMAA	DOMESTIC SOLID WASTE MANAGEMENT
14	2007	2008	AL HUDA ENGINEERING WORKS	QP	CONSTRUCTION OF THE REMAINING WORKS FOR CRUSHED STONE IMPORT FACILITY ROADS & BRIDGERS AT MESAIEED
15	2007	2008	AMANA STEEL BUILDING CO	MIC	LOGISTIC TERMINAL FOR 450 KTPA LLDPE UNIT AT MESAIEED
16	2007	2008	AL MISNAD READY MIX	AL MISNAD	CONCTRE BATCHING PLANT- RLIC
17	2008	2008	GULF CONTRACTING CO.	UDC/DAR AL HANDASAH	CP/14-1 FACILITIES MANAGEMENT PACKAGE-01 FOUNDATION AT PEARL QATAR
18	2008	2008	AL JABER TRADING & CONTRACTING CO.	SPORTS CITY	HAMAD AQUATIC CENTER - SPORT CITY COMPLEX
19	2008	2010	GAMA QATAR	QATAR GAS	RLIC - PEARL GTL PROJECT
20	2008	2009	FERNAS CONSTRUCTION CO.	QP	GTC/07/106/ED EPIC OF CONSOLIDATED GAS SUPPLY WITHIN MESAIEED
21	2009	2013	TEKFEN CONSTRUCTION	ASHGHAL / DAR AL HANDASAH	NORTH ROAD CONSTRUCTION PROJECT
22	2009	2009	FERNAS CONSTRUCTION CO.	QP	GTC/07/106/ED EPIC OF CONSOLIDATED GAS SUPPLY WITHIN RAS LAFFAN
23	2010	2010	DANEM ENGINEERING WORKS	-	NGL TANK FARM AREA
24	2010	2012	PUNJ LLOYD LTD	-	EPIC FOR STRATEGIC GAS TRANSMISSION
25	2010	2011	FERNAS CONSTRUCTION CO.	QP	GC08112500- EPIC OF GAS SUPPLY TO UMM BAAB & DUKHAN & GAS SUPPLY TO QAFCO-05
26	2010	2010	REDCO CONSTRUCTION - AL MANA	-	VILLA PROJECT AT AL WAAB AREA
27	2010	2010	KENTECH QATAR TECHNICAL SERVICES	-	RLIC POROJECT
28	2010	2010	PROMOR QATAR CONTRACTING WLL	-	DUKHAN HOSPITAL PROJECT
29	2010	2010	REDCO CONSTRUCTION - AL MANA	-	SHOWCASE STADIUM PROJECT AT ABU HAMUR
30	2010	2012	AL ALI PROJECTS	-	DUKHAN HOSPITAL EXTESION PROJECT
31	2010	2010	GULF CONSOLIDATED CONTRACTORS CO.	-	SLOPE PROTECTION & CRASH BARRIERS FOR ROADS WITHIN DUKHAN FIELDS
32	2010	2010	GENCO BUILDERS & CONTRACTOR	-	AL SHAMAL PROJECT
33	2010	2010	STFA MARINE CONSTRUCTION CO.	-	EPIC FOR CONTAINER TERMINAL
34	2010	2010	AMRAN CP SYSTEM & SERVICES LLC	-	RAS LAFFAN INDUSTRIAL CITY
35	2010	2011	DODSAL ENGINEERING AND CONSTRUCTION	-	EPIC FOR RAS LAFFAN COMMON COOLING SEA WATER SYSTEM PHASE #2, PUMP HOUSE #3 INTAKE WATER STRUCTURE
36	2010	2012	REDCO CONSTRUCTION - AL MANA	-	BUSINESS PARK & HOTEL FACILITIES PROJECT

## LIST FOR MAJOR COMPLETED/ON-GOING PROJECTS

### 3. DRILLING WORKS & PROJECTS

SI.No.	YEAR		CONTRACTOR	CLIENT / CONSULTANT	NAME OF THE PROJECT
	STARTING	COMPLETING			
37	2010	2016	REDCO CONSTRUCTION - AL MANA	-	DEVELOPMENT OF BARZAN CAMP PROJECT
38	2010	2011	AL MUFTAH CONTRACTING CO.	-	WOOQUD PETROL STATION AT SALWA ROAD
39	2010	2012	TEKFEN CONSTRUCTION	-	CEREMONIAL NATIONAL DAY ROAD PROJECT
8	2011	2013	PROMER QATAR CONTRACTING CO.	Shk. Nasser Bin Faleh Al-Thani Group	PROTO ARABIA - PARCEL 13A & 13B[PODIUM & TOWER] PROJECT - DEWATERING & GROUND WATER MONITORING WORKS
40	2011	2015	DANEM ENGINEERING WORKS	-	DEVELOPMENT OF BARZAN CAMP PROJECT
41	2011	2014	TEKFEN CONSTRUCTION	ASHGHAL / DAR AL HANDASAH	NORTH ROAD CONSTRUCTION PROJECT - SOAKAWAY DRILLING BH
42	2011	2011	AL MUFTAH CONTRACTING CO.	-	WOOQUD PETROL STATION AT ABU SAMRA
43	2012	2012	FERNAS CONSTRUCTION CO.	QP	NEAR LIFTING PIT 2116A @ MIC
44	2012	2012	QATER ENGINEERING & CONSTRUCTION CO.	ORYX	ORYX RAS LAFFAN
45	2012	2012	MEDGULF CONSTRUCTION	RAS GAS	RAS GAS HELIUM 2 HEXUS & UTILITIES
46	2012	2012	MEDGULF CONSTRUCTION	-	DRILLING WORKS AT RAS LAFFAN
47	2012	2012	AL MUFTAH CONTRACTING CO.	-	DRILLING WORKS AT RAS LAFFAN
48	2012	2012	AL MUFTAH CONTRACTING CO.	-	AL KHOR KARWA PROJECT - DEWATERING & GROUND WATER MONITORING WORKS
49	2012	2012	AMRAN CP SYSTEM & SERVICES LLC	QATAR GAS	VERTICAL ANODE QATAR GAS FACILITIES AT RASLAFFAN
50	2012	2014	PROMER QATAR CONTRACTING CO.	-	GRAVE YARD @ MESAIMMEER
51	2012	2013	AMRAN CP SYSTEM & SERVICES LLC	QATAR GAS	BOREHOLES FOR VERTICAL ANOLDE QATAR GAS FACILITIES AT RASLAFFAN
52	2012	2014	GULF CONSOLIDATED CONTRACTORS CO.	QP	EPIC OF DUAL CARRIAGE WAY FROM RASLAFFAN TO SEALIMNE AVENUE
53	2012	2016	REDCO CONSTRUCTION - AL MANA	PEO	CONSTRUCTION OF DEVELOPMENT OF BARZAN CAMP PHASE-2 PKG-1 BARRACK BUILDING
54	2014	2015	GULF CONSOLIDATED CONTRACTORS CO.	QP	GC-11101500 AT DUKHAN
55	2014	2017	REDCO CONSTRUCTION - AL MANA	-	OFFICE BUILDING (3B+G+22) AT PLOT MIX 50 IN LUSAIL DISTRICT MARINA
56	2014	2016	REDCO CONSTRUCTION - AL MANA	-	CONSTRUCTION OF WESTERN GREEN SPINE AT EDUCATION CITY - DRILLING OF EARTHING BOREHOLES
57	2014	2016	REDCO CONSTRUCTION - AL MANA	-	DESIGN & BUILDING OF MAJLISH AT LUSAIL VILLA, EARTH BIT CORE DRILLING
58	2014	2016	REDCO CONSTRUCTION - AL MANA	RACING & EQUESTRIAN	BREEDING FARM PROJECT PHASE 1 OF 2
59	2014	2016	REDCO CONSTRUCTION - AL MANA	ABDULLAH BIN NASER AL MISNAD	LUSAIL MARINA - COM 20 OFFICE TOWER (3B+G+27)
60	2014	2014	REDCO CONSTRUCTION - AL MANA	BARRACKS BUILDING	CONSTRUCTION OF DEVELOPMENT OF BARZAN CAMP PHASE 2 PACKAGE 1 -
61	2015	2016	REDCO CONSTRUCTION - AL MANA		GYM AND SPA, AL ABRAJ TOWER, AVM MILITARY COLLEGE
62	2015	2016	NAKHEEL	LUSAIL CITY	LANDSCAPE AT LUSAIL CITY
63	2017	ON-GOING	AL ALI PROJECTS	QP	EPIC OF ROAD UPGRADE FROM KSGDS TO KHUFF E/C (ARAB-D) - EARTHING BOREHOLES
64	2017	ON-GOING	AL NAKHEEL		LANDSCAPE AT LUSAIL CITY - EARTHING BOREHOLES
65	2017	ON-GOING	REDCO CONSTRUCTION - AL MANA	AEB	LE MIRAGE RESIDENTIAL DEVELOPMENT 5 BUILDINGS - EARTHING BOREHOLES
66	2017	ON-GOING	REDCO CONSTRUCTION - AL MANA	AEB	PROPOSED AL KHALIJ HEAD QUARTER - LUSAIL MARINA - EARTHING BOREHOLES
67	2017	ON-GOING	DAEWOO E&C	ASHGHAL / AECOM	NEW ORBITAL HIGHWAY & TRUCK ROUTE (P023) CONTRACT -4



## LIST FOR MAJOR COMPLETED/ON-GOING PROJECTS

### 4. SLOPE STABILITY ANALYSIS & ANCHORING WORKS

SI.No.	YEAR		CONTRACTOR	CLIENT / CONSULTANT	NAME OF THE PROJECT
	STARTING	COMPLETING			
<b>GOVERNMENT ROAD PROJECTS</b>					
1	2007	2008	BILFINGER BERGER-AL HAMAD JOINT VENTURE	ASHGHAL / MOUNSELL	DOHA EXPRESS WAY PROJECT - 22nd FEBRUARY STREET ALAMIR STREET UPGRAE & INTERCHANGES WORK , AL RAYYAN PUMPING STATION
2	2007	2008	BILFINGER BERGER-AL HAMAD JOINT VENTURE	ASHGHAL / MOUNSELL	DOHA EXPRESS WAY PROJECT - 22nd FEBRUARY STREET ALAMIR STREET UPGRAE & INTERCHANGES WORK , AL JAWAN PUMPING STATION
3	2007	2008	BILFINGER BERGER-AL HAMAD JOINT VENTURE	ASHGHAL / MOUNSELL	DOHA EXPRESS WAY PROJECT - 22nd FEBRUARY STREET ALAMIR STREET UPGRAE & INTERCHANGES WORK, MICRO TUNNEL SHAFTS @ OMAR BIN KHATTAB AREA
4	2007	2008	BILFINGER BERGER-AL HAMAD JOINT VENTURE	ASHGHAL / MOUNSELL	DOHA EXPRESS WAY PROJECT - 22nd FEBRUARY STREET ALAMIR STREET UPGRAE & INTERCHANGES WORK, MICRO TUNNEL SHAFTS @ AL JAWAN AREA
5	2007	2007	LUSAIL CAR PROJECT	QATARI DIAR / QDVC	LUSAIL CAR PARK PROJECT - PRESSURE GROUTED ANCHORING FOR CUT SLOPE STABILIZATION
6	2007	2008	BILFINGER BERGER-AL HAMAD JOINT VENTURE	ASHGHAL	AL KHOR KARWA PROJECT - DEWATERING & GROUND WATER MONITORING WORKS
7	2008	2008	AL JABER TRADING & CONTRACTING CO.	SPORTS CITY	HAMAD AQUATIC CENTER - KHALIFA STADIUM DIVING POOL GROUND SLAB STABILIZATION BY APPLICATION OF PRESSURE GROUTED ANCHORING
8	2006	2010	BILFINGER BERGER-AL HAMAD JOINT VENTURE	ASHGHAL/ MOUNSELL	DOHA EXPRESS WAY PROJECT - 22nd FEBRUARY STREETALAMIR STREET UPGRADE & INTERCHANGES WORKS
9	2011	2012	PROMER QATAR CONTRACTING CO.	Shk. Nasser Bin Faleh Al-Thani Group	PROTO ARABIA - PARCEL 13A & 13B[PODIUM & TOWER] PROJECT - DEWATERING & GROUND WATER MONITORING WORKS

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LIST FOR **MAJOR** COMPLETED/ON-GOING PROJECTS

## 5. CAVITY PROBING & PRESSURE GROUTING PROJECTS

SI.No.	YEAR		CONTRACTOR	CLIENT / CONSULTANT	NAME OF THE PROJECT
	STARTING	COMPLETING			
<b>GOVERNMENT ROAD &amp; OTHER PROJECTS</b>					
1	2007	2008	BILFINGER BERGER-AL HAMAD JOINT VENTURE	ASHGHAL / MOUNSELL	DOHA EXPRESS WAY: ERC1400/D20/C1 - AL JAWAN PUMPING STATION [CAVITY PROBING]
2	2007	2008	BILFINGER BERGER-AL HAMAD JOINT VENTURE	ASHGHAL / MOUNSELL	DOHA EXPRESS WAY: ERC1400/D20/C1 - AL RAYYAN PUMPING STATION [CAVITY PROBING]
3	2007	2008	BILFINGER BERGER-AL HAMAD JOINT VENTURE	ASHGHAL / MOUNSELL	DOHA EXPRESS WAY: ERC1400/D20/C3 - OMAR BIN KHATTAB UNDER PASS [CAVITY PROBING]
4	2008	2008	GULF CONTRACTING CO.	UDC / DAR AL HANDASAH	CP/14-1 FACILITIES MANAGEMENT PACKAGE-01 FOUNDATION AT PEARL QATAR <b>[CAVITY PROBING &amp; 1,500 M<sup>3</sup> PRESSURE GROUTING]</b>
5	2010	2010	TEKFEN CONSTRUCTION & INSTALLATION CO.	ASHGHAL	ERC 0638 C1B - CONSTRUCTION OF QATAR PROMARY ROUTES - NORTH ROAD PROJECT PACKAGE # 2 & 3
<b>QATAR PETROLEUM (QP) PROJECTS</b>					
6	2007	2008	MEDULF CONSTRUCCION CO.	RAS GAS	D-5648/09, ONSHORE PIPELINE INSTALLATION WORK FOR RAS GAS OFFSHORE EXPANSION PROJECT.[PRESSURE GROUTING]
7	2009	2012	DODSAL ENG. & CONSTRUCTION Pte. LTD	QATAR PETROLEUM	RLC COMMON COOLING SEAWATER SYSTEM, PHASE II, PUMP HOUSE WING WALL STRUCTURE [PRESSURE GROUTING]
<b>OTHER PROJECTS</b>					
8	2007	2008	AL JABER TRADING & CONTRACTING CO.	GULF CEMENT COMPANY	GULF CEMENT COMPANY MINING PROJECT-UMM BAAB [CAVITY PROBING]
9	2009	2009	AMMICO CONTRACTING CO. WLL	-	100 STOREY AL QUD TOWER DEVELOPMENT PROJECT AT WESTBAY
10	2013	2013	AL SAIRIYA CONTRACTING	-	CONSTRUCTION OF HEALTH CARE CENTER AT KARANA [23m <sup>3</sup> PRESSURE GROUTING]
11	2013	2013	NUROL	ASTAD	LUSAIL MULTIPURPOSE HALL FOR MICRO PILLING & GROUTING
12	2013	2014	AL KHALIJ CEMENT COMPANY	-	LINE 2 (800 M3 PRESSURE GROUTING)
13	2014	ONGOING	DOGUS	ASHGHAL/EGIS	CONST. & UPGRADE OF AL RAYYAN ROAD, PROJECT 7
14	2014	2015	MIDMAC/SIX CONSTRUCT	ASPIRE ZONE/DAR AL HANDASAH	TOTAL RENOVATION OF KHALIFA STADIUM & MUSEUM @ ASPRE ZONE, QATAR [63m3 PRESSURE GROUTING]
15	2015	2017	SBG-PORR HBK JV	QATAR RAIL	QATAR METRO - GREEN LINE - AL WUAAB [200 m3 PRESSURE GROUTING]
16	2017	ONGOING	DOHA INTERTEK	PEO/ KEO	AL KHOR EXPRESSWAY - BUTHELAH SUBSTATION

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LIST FOR **MAJOR** COMPLETED/ON-GOING PROJECTS

## 6. DEWATERING WORKS/PROJECTS

Sl.No.	YEAR		CONTRACTOR	CLIENT / CONSULTANT	NAME OF THE PROJECT
	STARTING	COMPLETING			
<b>GOVERNMENT &amp; OTHER PROJECTS</b>					
1	2007	2008	KEPEL SEGHERS ENGINEERING	MMAA	DOMESTIC SOLID WASTE MANAGEMENT PROJECT AT MESAIEED AREA [DEWATERING & GROUND WATER MONITORING]
2	2007	2009	BILFINGER BERGER-AL HAMAD JOINT VENTURE	ASHGHAL / MOUNSELL	DOHA EXPRESS WAY: ERC1400/D20/C1 - AL JAWAN PUMPING STATION [DEWATERING]
3	2007	2009	BILFINGER BERGER-AL HAMAD JOINT VENTURE	ASHGHAL / MOUNSELL	DOHA EXPRESS WAY: ERC1400/D20/C1 - AL RAYYAN PUMPING STATION [DEWATERING]
4	2007	2009	BILFINGER BERGER-AL HAMAD JOINT VENTURE	ASHGHAL / MOUNSELL	DOHA EXPRESS WAY: ERC1400/D20/C3 - OMAR BIN KHATTAB UNDER PASS [DEWATERING]
5	2010	2011	GULF BEACH TRADING & CONTRACTING CO. WLL	LUSAIL DEVELOPMENT PROJECT MANAGEMENT/KEO	DEWATERING OF 70 Mt X 100 Mt RECLAIMED AREA IN LUSAIL COASTAL AREA FOR THE CONSTRUCTION OF SEA OUTFALL STRUCTURE CONSTRUCTION BY LOWERING GROUND WATER LEVEL TO - 10.0 Mt FOR A PERIOD OF 6 MONTHS
6	2011	ONGOING	PROMER QATAR CONTRACTING CO.	ASHGHAL	AL KHOR KARWA PROJECT - DEWATERING & GROUND WATER MONITORING WORKS
7	2011	ONGOING	PROMER QATAR CONTRACTING CO.	SHEIK NASSER BIN FALEH AL-THANI GROUP	PROTO ARABIA - PARCEL 13A & 13B[PODIUM & TOWER] PROJECT - DEWATERING & GROUND WATER MONITORING WORKS
8	2014	ONGOING	DOGUS	ASHGHAL/EGIS	CONSTRUCTION & UPGRADE OF AL RAYYAN ROAD, PROJECT 7
9	2016	2017	NAVAYUGA ENGINEERING CO.	HAWAR REAL ESTATE	CONSTRUCTION, COMPLETION & MAINTENANCE OF THE CORE & SHELL OF B+G+M+4 - AL SAAD
10	2016	ONGOING	NAVAYUGA ENGINEERING CO.	HAWAR REAL ESTATE	3B+G+3+PH BUILDING AT ECQ - LUSAIL



# TECH LAB



ISO/ IEC 17025:2005

LIST FOR MAJOR COMPLETED/ON-GOING PROJECTS

## 7. GEOPHYSICAL SURVEY [MASW, ERT & GPR]

SI.No.	YEAR		CONTRACTOR	CLIENT / CONSULTANT	NAME OF THE PROJECT
	STARTING	COMPLETING			
<b>GOVERNMENT ROAD &amp; OTHER PROJECTS</b>					
1	2014	ONGOING	CHINA HARBOUR ENGINEERING	ASHGHAL/ CH2MHILL & KBR	CONSTRUCTION OF EAST CORRIDOR P011, (PACKAGE-2) DOHA, QATAR [MASW]
2	2016	2016	UMM AL HOUL POWER	MR. SIDDQUI	RESIDENTIAL BUILDING (2B+G+7 STOREY) OFF C RING ROAD [GPR]
3	2016	2016	SAMSUNG C & T CORPORATION	UMM AL HOUL POWER	UMM AL HOIL POWER IWPP [GPR]
4	2016	2016	JEFFERSON CONTRACTING	ASHGHAL	P003 LUSAIL EXPRESSWAY WAHDA [GPR]