

## **CURRICULUM VITAE**



**DR. MD. MANIRUZZAMAN BIN ABDUL AZIZ (Zaman)**

### **ACADEMIC POSITION**

Senior Lecturer  
Universiti Teknologi Malaysia (UTM), Malaysia

June 2012- till-date

### **EXPERTISE**

- a. Working on research related on Pollution to Solution and development of renewable energy in sustainable ground.
- b. Carbon Neutral Roads
- c. Application of Microwaves in Civil Engineering.
- d. Development of Nomograph for Material Testing by Microwaves.
- e. Design of Roads and Highways.
- f. Given a number of talks as invited presenter on “how to get articles published in ISI journals”.

### **SPECIALTY**

- A. Fifteen (15) years Industrial Experiences in Malaysian Highways and Airport:
  - Kuala Lumpur International Airport (KLIA), Malaysia.
  - North–South Interurban Toll Expressways (PLUS Malaysia Bhd) projects.
  - XVI Commonwealth game at Bukit Jalil, Kuala Lumpur, Malaysia.
  - Public Works Department (JKR) projects, Malaysia.
  - Malaysian Highway Authority (MHA) projects.
- B. Registered with Board of Engineers Malaysia (LJM) in the year 1996 & 1997 (519F).
- C. **PhD Thesis Dissertation:** “Determination of Asphalt Properties using Microwave Techniques”.
- D. **Master Thesis Dissertation:** “Uniformity Study on Sugrade – A case study on Jalan Pintas Rawang, Kuala Lumpur, Malaysia”.

### **INTERNATIONAL RECOGNITION**

Member of Technical Committee of 8th Innovation, Arabia Conference in the Hamdan Bin Mohammed Smart University, United Arab Emirates (UAE), held on February 2015 in UAE.

## **INVITED SPEAKERS FOR INTERNATIONAL CONFERENCES (>11 Nos.)**

1. Invited Speaker for “Asian Advanced Materials Congress” ([www.vbripress.org/asamc](http://www.vbripress.org/asamc)), will be held on 11-16 March 2017, Cruise Ship events sailing on the Strait of Malacca from Singapore - Kuala Lumpur (Malaysia) - Penang (Malaysia) - Phuket (Thailand)-Singapore by the Diamond Princess Cruise Ship organised by the International Association of Advanced Materials (IAAM) with the collaboration of VBRI Press AB, Sweden.
2. Invited speaker at the 238-Call for Speaker at the 3rd Annual World Congress of Smart Materials-2017, (WCSM-2017), will be held on March 16-18, 2017, Bangkok, Thailand.
3. Invited speaker at the 6th Annual World Congress of Nano Science & Technology – 2016, will be held on October 26-28, 2016, in Singapore.  
Web: <http://www.bitcongress.com/nano2016/>
4. Invited speaker at the 5th International Symposium on Energy Challenges and Mechanics, which will be held on 10-14 July 2016, Inverness, Scotland.
5. Speaker Opportunity: International Conference on Sustainable Civil Engineering, held on June 20-22, 2016, Cape Town, South Africa.
6. Invited speaker at the 2nd Annual World Congress of Smart Materials-2016 (WCSM-2016), held during March 4<sup>th</sup>-6<sup>th</sup>, 2016, Singapore.
7. Invited speaker at the World Scientific and Engineering Academy and Society (WSEAS 2015), held on 5<sup>th</sup>-7<sup>th</sup> September 2015, Seoul, Korea.
8. Invited speaker at the 3rd International Symposium on Energy Challenges and Mechanics, held on 7<sup>th</sup>-9<sup>th</sup> July 2015, Aberdeen, Scotland, in the session 10: Bio-energy.
9. 413-Invitation for GCC-2016, KINTEX, Goyang-si, South Korea. deliver a speech at Track 6-7: Green Biobased Products at the Green and Sustainable Chemistry Forum. It will be held on June 30-July 2, 2016, South Korea.
10. Invited presenter in the “Culturing Knowledge Drive Session-V by Dr. Md. Maniruzzaman B. A. Aziz on “Publication as a tool to Culture Knowledge” at Faculty of Civil Engineering, University Technology Malaysia (UTM), Malaysia, June 2015.
11. Invited speaker at the World Scientific and Engineering Academy and Society, WSEAS, held on 23<sup>rd</sup> – 25<sup>th</sup> April 2015, Kuala Lumpur, Malaysia.

## **EDUCATION**

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| 2011 | PhD in Civil Engineering (Highway and Transport Engineering), University Putra Malaysia (UPM), Malaysia. |
| 2006 | M.Sc. Engineering (Highway and Transport Engineering), University Putra Malaysia (UPM), Malaysia.        |

- 1981 B.Sc. (Civil Engineering), Bangladesh University of Engineering & Technology (BUET), Dhaka, Bangladesh.
- 1974 Higher Secondary Certificate (HSC), Ananda Mohon College (Govt.), Mymensingh, Bangladesh.
- 1971 Secondary School Certificate (SSC), Mymensingh Zilla School (Govt.), Mymensingh, Bangladesh.

### **FACULTY COLLOQUIUM**

- 1. Given a talk on Publication as the 'Chairman of Faculty Task Force' under the programme of '**PUBLICATION AS A TOOL TO CULTURE KNOWLEDGE**' as the 5<sup>th</sup> invited speaker on 3<sup>rd</sup> June 2015. This is a forum for invited speakers from all around the world.
- 2. Sustainable warm mix asphalt pavement with partial replacement of stone Aggregates by steel slags and microwave technology, Universiti Teknologi Malaysia (UTM), 14 June 2013, Skudai, Johor, Malaysia.
- 3. Application of Microwaves for the Characterization of Civil Engineering Materials and their Unique Electromagnetic Properties, Universiti Teknologi Malaysia (UTM), Skudai, Johor, Malaysia, on 24 October 2012.

### **FACULTY APPOINTMENT**

- A. Chairman of Task Force for Publishing papers by Post graduate students, for the Faculty of Civil Engineering, Universiti Teknologi Malaysia (UTM), Malaysia:  
Ref. of Appointment: UTM.J.22.02/10.15/4 jld.2 (11)
- B. Chairman of the Committee (International Participation) on International Conference on GEOTROPIKA 2016, held on 17-18 February 2016 in Kuala Lumpur, Malaysia: Ref. of Appointment: UTM.J.22/19.11/1/29/13/(57)

### **Book Chapter**

Book: Soils of Malaysia

- a. Ebenezer Akin Oluwasola, Mohd Rosli Hainin, **Md. Maniruzzaman A. Aziz\***, Santokh Singh A/L. Mahinder Singh: "Effect of Aging on the Resilient Modulus of Stone Mastic Asphalt incorporating Electric Arc Furnace Steel Slag and Copper Mine Tailings" Springer, Chapter InCIEC, year 2014, pp 1199-1208, date of Publication: 12 May 2015.
- b. World Soil Series, Springer, Chapter 6: "Mechanical Properties of Soils based on Engineering Characteristics" **Md. Maniruzzaman A. Aziz**. It will be uploaded on the website with the following link: (<http://www.springer.com/series/8915>), expected date of publication (July/August 2016).

### **AWARDS:**

#### **a. BEST PAPER AWARD**

The 1<sup>st</sup> International Conference on Engineering Technology, and Applied Business (ICETAB 2014), on "Effect of Styrene-Butadiene Rubber on Rheological Properties of Asphalt Emulsion" by M. Naquiuddin M. Warid\*, Mohd Rosli Hainin, Haryati Yaacob, **Md. Maniruzzaman A. Aziz**, Mohd Khairul Idham, Noor Azah Abdul Raman, Rosmawati Mamat at Polytechnic Negeri Batam, Indonesia on 4th December 2014.

## b. SILVER AWARD

Award of Silver Medal, at 17<sup>th</sup> Industrial Art and Technology Exhibition (INATEX) 2015 at Dewan Sultan Iskandar, UTM, Johor Bahru, Malaysia by Mohd Rosli Bin Hainin, Azman Bin Mohamed, **Md. Maniruzzaman Bin A. Aziz**, Muhammad Naquiddin Bin Mohd Warid, Mohd Khairul Idham Bin Mohd Satar, Noor Azah Binti Abdul Raman and Oluwasola, Ebenezer Akin for the invention/innovation of “*Innovative Asphalt Concrete from Steel Slag and Copper Mine Tailing*” held on 3-5 November 2015, organized by Research Management Centre (RMC), University Technology Malaysia (UTM), Malaysia.

### **TOTAL ISI INDEX JOURNAL PAPERS PUBLISHED IN THE YEAR 2014, 2015 & 2016 (>42)**

1	Ebenezer Akin Oluwasola, Mohd Rosli Hainin and <b>Md. Maniruzzaman A. Aziz</b> , “Comparative Evaluation of Dense-Graded and Gap-Graded Asphalt Mix Incorporating Electric Arc Furnace Steel Slag and Copper Mine Tailings” <i>Journal of Cleaner Production</i> ( <b>IF 4.959, Q1</b> ), Volume 122, 20 May 2016, Pages 315–325 . Journal of Cleaner Production.
2	<i>Ebenezer Akin Oluwasola, Mohd Rosli Hainin, Md. Maniruzzaman A. Aziz and M. Naquiddin M. Warid (2015).</i> “Volumetric Properties and Leaching Effect of Asphalt Mixes with Electric Arc Furnace Steel Slag and Copper Mine Tailings”. Sains Malaysiana, ( <b>IF=0.446, Q3</b> ), Volume 45, Issue 2, 2016, Pages 279–287 ( <b>ISI and Scopus Indexed</b> ).
3	<b>Md. Maniruzzaman A Aziz*</b> , <i>Md Tareq Rahman, M. R. Hainin, Wan Azelee Wan Abu Bakar</i> , “An Overview on Alternative Binders for Flexible Pavement” <i>Construction and Building Materials</i> , 2015, ( <b>IF=2.265, Q1</b> ), Volume: 84, issue: 1, Pages 315-319, ISSN: 0950-0618.
4	<i>M.A.Kibria, R.Saidur , F.A. Al-Sulaiman, Md. Maniruzzaman A. Aziz.</i> “Development of a thermal model for a hybrid photovoltaic module and phase change materials storage integrated in buildings” <i>Solar Energy</i> , 2015, ( <b>IF=3.469, Q1</b> ), Volume: 124 (2016), Pages 114-123.
5	<i>Ebenezer Akin Oluwasola, Mohd Rosli Hainin and Md. Maniruzzaman A. Aziz (2015).</i> “Evaluation of rutting potential and skid resistance of hot mix asphalt incorporating electric arc furnace steel slag and copper mine tailings” <i>Indian Journal of Engineering and Materials Sciences</i> , 2015, ( <b>IF=0.413, Q4</b> ), Volume: 22, Issue 5, Pages 550-558, ISSN: 0971-4588.
6	<i>Norhidayah Abdul Hassan, Gordon D. Airey, Nur Izzi Md. Yusoff, Mohd Rosli Hainin, Ramadhansyah Putrajaya, Mohd Ezree Abdullah, Md. Maniruzzaman A. Aziz</i> “Microstructural characterisation of dry mixed rubberised asphalt mixtures” <i>Construction and Building Materials</i> , (2015), ( <b>IF=2.265, Q1</b> ), Volume: 82, Pages 173-183, ISSN: 0950-0618.
7	<b>M. M. A. Aziz*</b> , <i>M. R. Hainin, H. Yaacob, S. M. Feizabadi, M. Shokr, and M. N. M. Warid</i> , “Performance of warm mix asphalt in highway industry” <i>Materials Research Innovation (MRI)</i> , 2014, ( <b>IF=0.473, Q4</b> ), Volume: 18, issue: S6, Pages 245 – 249, ISSN: 1432-8917.
8	<b>M. M. A. Aziz*</b> , <i>M. R. Hainin, H. Yaacob, Z. Ali, F.-L. Chang<sup>2</sup> and A. M. Adnan</i> , “Characterisation and utilisation of steel slag for the construction of roads and highways” <i>Materials Research Innovation (MRI)</i> , 2014, ( <b>IF 0.473, Q4</b> ), Volume: 18, issue: S6, Pages 255 – 259, ISSN: 1432-8917.

9	<i>E.A.Oluwasola, M. R. Hainin<sup>2</sup>, M. M. A. Aziz<sup>2*</sup>, H. Yaacob<sup>4</sup> and M. N. M. Warid,</i> “Potentials of steel slag and copper mine tailings as construction materials” <i>Materials Research Innovation (MRI)</i> , 2014, ( <i>IF=0.473, Q4</i> ), Volume 18, issue S6, Pages 250 – 254, ISSN: 1432-8917.
10	<i>M. N. M. Warid*, M. R. Hainin, H. Yaacob, M. M. A. Aziz and M. K. Idham</i> “Thin Cold-Mix Stone Mastic Asphalt Pavement Overlay for Roads and Highways” <i>Materials Research Innovation (MRI)</i> , ( <i>IF=0.473, Q4</i> ), Volume: 18, issue: S6, Dec 2014, Pages 303 – 306, ISSN: 1432-8917.
11	<i>Moetaz ElSergany, Amimul Ahsan, M. M. A. Aziz</i> “Optimizing the Performance of a Paper Mill Effluent Treatment”, 2015, Sains Malaysiana, ( <i>IF=0.480, Q3</i> ), Volume: 44, issue: 1, Pages 101 – 106, ISSN: 0126-6039.
12	Ashraf Bin Ahmad Zaini, <b>Md Maniruzzaman A. Aziz*</b> , Khairul Anuar Bin Kassim, Khairul Hafiz Bin Mustafa, “A Brief Review On Crack Relief Layer in Airport Runway”, Vol 78, No. 7–2, July, 2016, pages 41–48, www.jurnalteknologi.utm.my, eISSN 2180–3722, Highway and Transportation Engineering.
13	Khairul Hafiz Bin Mustafa, <b>Md Maniruzzaman A. Aziz*</b> , Mohd Rosli Hainin, Ashraf Bin Ahmad Zaini, M. Naquiuddin M. Warid, “A Brief Review on Crack Relief Layer (CRL) in Roads and Highways”, Vol 78, No. 7–3, July, 2016, pages 45-52, www.jurnalteknologi.utm.my, eISSN 2180–3722, Highway and Transportation Engineering.
14	Zohair Ahmed Altieb, <b>Md. Maniruzzaman A. Aziz*</b> , Khairul Anuar Bin Kassim, Hauwa Baffa Jibrin, “A Short Review on Partial Replacement of Asphalt Binder with Crumb Rubber”, Vol 78, No. 7–3, July, 2016, pages 29-36, www.jurnalteknologi.utm.my, eISSN 2180–3722, Highway and Transportation Engineering.
15	Ebenezer Akin Oluwasola, Mohd Rosli Hainin*, <b>Md. Maniruzzaman A. Aziz</b> , “Effect of Moisture Damage on Gap-Graded Asphalt Mixture Incorporating Electric Arc Furnace Steel Slag and Copper Mine Tailings”, Vol 78, No. 7–3, July, 2016, pages 1-9, www.jurnalteknologi.utm.my, eISSN 2180–3722, Highway and Transportation Engineering.
16	Fauzan Mohd Jakarni*, Muhammad Fudhail Rosli, Nur Izzi Md Yusoff, <b>Md Maniruzzaman A Aziz</b> , Ratnasamy Muniandy and Salihudin Hassim, “An Overview of Moisture Damage Performance Tests on Asphalt Mixtures”, Vol 78, No. 7–2, July, 2016, pages 91-98, www.jurnalteknologi.utm.my, eISSN 2180–3722, Highway and Transportation Engineering.
17	<b>Md. Maniruzzaman A. Aziz*</b> , Ahmed Wsoo Hamad, Abdulmalik Musa Maleka, Fauzan Mohd Jakarni, “Effect of Viscoelastic Behaviour of Cellulose Oil Palm Fiber (COPF) Modified 60-70 Asphalt Binder for Deterioration for Roads and Highways” <i>Jurnal Teknologi (Sciences &amp; Engineering)</i> , SCOPUS indexed Volume: 75, Issue: 11, July, pp. 17-23, eISSN 2180-3722
18	<i>M. Naquiuddin M. Warid, Mohd Rosli Hainin*, Haryati Yaacob, Md. Maniruzzaman A. Aziz, Mohd Khairul Idham, Noor Azah Abdul Raman, Rosmawati Mamat.</i> “Effect of Styrene-Butadiene on Rheological Properties of Asphalt Emulsion, 2015, Volume: 77, Issue: 23, Pages 1–5, www.jurnalteknologi.utm.my   eISSN 2180–3722.

19	<i>Darain, K. M., Jumaat, M. Z., Nazimuddin, S. M., Ahsan, A., Rashid, R., Aziz, Md. Maniruzzaman A. Aziz, Islam, A. B. M. S.</i> (2015). "A Review of the Corrosion Behavior of Metallic Heritage Structures and Artifacts". <i>Jurnal Teknologi</i> , Volume: 77, issue: 1, Pages 205-218. ( <b>Scopus</b> ).
20	<i>Wan Nur Aifa Wan Azahar, Mastura Bujang, Ramadhansyah Putra Jaya, Mohd. Rosli Hainin, Md. Maniruzzaman A. Aziz, Norzita Ngadi.</i> "Application Of Nanotechnology In Asphalt Binder: A Conspectus And Overview", 2015, <i>Jurnal Teknologi</i> , Volume: 76, issue: 14, Pages 85-89. www.jurnalteknologi.utm.my eISSN 2180-3722.
21	<i>Mohd. Rosli Hainin, Md. Maniruzzaman A. Aziz*</i> , Abbas Mukhtar Adnan, Norhidayah Abdul Hassan, Ramadhansyah Putra Jaya, Hong Y Liu, "Performance of Modified Asphalt Binder with Tire Rubber Powder" <i>Jurnal Teknologi-Special Edition (Highway and Transportation Engineering)</i> , 2015, Volume: 73, issue: 4, Pages 55-60, eISSN 2180-3722. ( <b>SCOPUS</b> indexed).
22	<i>Mohd. Rosli Hainin, Md. Maniruzzaman A. Aziz*</i> , Zulfiqar Ali, Ramadhansyah Putra Jaya, Moetaz M. El-Sergany, Haryati Yaacob, "Steel Slag as a Road Construction Material". <i>Jurnal Teknologi-Special Edition (Highway and Transportation Engineering)</i> , 2015, Volume: 73, issue: 4, Pages 33-38, eISSN 2180-3722. ( <b>SCOPUS</b> indexed).
23	<i>Mohd. Rosli Hainin, Md. Maniruzzaman A. Aziz*</i> , Shahab Moeini Feizabadi, Ramadhansyah Putra Jaya, Norhidayah Abdul Hassan, Fauzan Mohd Jakarni, "An Overall Review: Modified Asphalt Binder Containing Sasobit in Warm-Mix Asphalt Technology" <i>Jurnal Teknologi-Special Edition (Highway and Transportation Engineering)</i> , 2015, Volume: 73, issue: 4, Pages 1-6, eISSN 2180-3722. ( <b>SCOPUS</b> indexed).
24	<i>Fauzan Mohd Jakarni<sup>a</sup>, * Nur Izzi Md Yusoff,<sup>b</sup> Jiantao Wu,<sup>c</sup> Md. Maniruzzaman A Aziz<sup>d</sup></i> , "Utilization of Sewage Sludge Molten Slag as Aggregate Substitute in Asphalt Mixtures", <i>Jurnal Teknologi-Special Edition (Highway and Transportation Engineering)</i> , 2015, Volume: 73, issue: 4, Pages 105-110, eISSN 2180-3722. ( <b>SCOPUS</b> indexed).
25	<i>Nadhir Ahmad Tarmuzi, Ramadhansyah Putra Jaya<sup>a</sup>, Haryati Yaacob, Norhidayah Abdul Hassan, Md. Maniruzzaman A Aziz</i> , "Aggregate Angularity Effect on Porous Asphalt Engineering Properties and Performance" <i>Jurnal Teknologi-Special Edition (Highway and Transportation Engineering)</i> , 2015, Volume: 73, Issue: 4, March 2015, Pages 99-104, eISSN 2180-3722. ( <b>SCOPUS</b> indexed).
26	<i>Ebenezer Akin Oluwasola, Mohd Rosli Hainin, and Md. Maniruzzaman A. Aziz*</i> , "Evaluation of Asphalt Mixtures Incorporating Electric Arc Furnace Steel Slag and Copper Mine Tailings for Road Construction" <i>Journal of Transportation Geotechnics</i> , 2015, Volume 2, Pages 47–55. ( <b>SCOPUS</b> indexed).
27	<i>Md Tareq Rahman, Md Maniruzzaman A. Aziz*</i> , Mohd. Rosli Hainin, Wan Azelee Wan Abu Bakar, "Impact of Bitumen Binder: Bio-Based Binder for Construction of Flexible Pavement", <i>Jurnal Teknologi- Special Issue on Sustainability and Construction Management</i> , 2014, Volume: 70, issue: 7, Pages 105–109, eISSN 2180 –3722. ( <b>SCOPUS</b> indexed).
28	<i>Mohd. Rosli Hainin<sup>a</sup>, Md. Maniruzzaman A. Aziz<sup>a,b*</sup>, Manouchehr Shokri<sup>a</sup>, Ramadhansyah Putra Jaya<sup>a</sup>, Norhidayah Abdul Hassan<sup>a</sup>, Amimul Ahsan<sup>c</sup></i> , "Performance of Steel Slag in Highway Surface Course", <i>Jurnal Teknologi-Special Edition (Highway and Transportation Engineering)</i> , 2014, Volume: 71, issue: 3, Pages 99–102, eISSN 2180–3722. ( <b>SCOPUS</b> indexed).

29	<i>Ebenezer Akin Oluwasola, Mohd Rosli Hainin, <b>Md. Maniruzzaman A. Aziz</b>,</i> “Characteristics and Utilization of Steel Slag in Road Construction” Special Issue on Sustainability and Construction Management, 2014, Volume: 70, issue :7, Pages 117–123, eISSN 2180 –3722. ( <b>SCOPUS</b> indexed).
30	<i>Norhidayah Abdul Hassan<sup>a*</sup>, Gordon D. Airey<sup>b</sup>, Ramadhansyah Putra Jaya<sup>a</sup>, Nordiana Mashros<sup>a</sup>, <b>Md. Maniruzzaman A. Aziz<sup>a</sup></b>,</i> “A review of crumb rubber modification in dry mixed rubberized asphalt mixtures” Jurnal Teknologi (Science & Engineering), 2014, Volume: 70, issue :4, Pages 127–134. ( <b>SCOPUS</b> indexed).
31	<i>Dewi Sri Jayanti, Ramadhansyah Putra Jaya, Norhidayah Abdul Hasan, <b>Md. Maniruzzaman A. Aziz</b>, Mohd. Rosli Hainin,</i> “Performance of RHA blended cement concrete under sodium chloride via wetting and drying” Applied Mechanics and Material, 2014, Pages 106-110. ( <b>SCOPUS</b> indexed).
32	<i>Dewi Sri Jayanti, Ramadhansyah Putra Jaya, Norhidayah Abdul Hasan, <b>Md. Maniruzzaman A. Aziz</b>, Mohd. Rosli Hainin and Mohd Haziman Wan Ibrahim,</i> “Effect of rice husk fineness on the properties of concrete” Applied Mechanics and Materials, 2014, Pages 203-207. ( <b>SCOPUS</b> indexed).
33	<i>Nurulain Che Mat, Ramadhansyah Putra Jaya*, Norhidayah Abdul Hassan, Hasan Md Nor, <b>Md. Maniruzzaman A. Aziz</b>, Che Norazman Che Wan,</i> “Properties of Asphaltic Concrete Containing Sasobit®”, Jurnal Teknologi-Special Edition (Highway and Transportation Engineering), 2014, Volume: 71, issue: 3, Pages 27–31. ( <b>SCOPUS</b> indexed).
34	<i>Thanwa Filza Nashruddin, Ramadhansyah Putra Jaya*, Norhidayah Abdul Hassan, Hasan Md Nor, <b>Md. Maniruzzaman A. Aziz</b>, Che Norazman Che Wan,</i> “Evaluation of Binder Absorption in Asphalt Mixture with Various Aging Conditions Using Rice Method” Jurnal Teknologi-Special Edition (Highway and Transportation Engineering), 2014, Volume: 71, issue: 3, Pages 53–56. ( <b>SCOPUS</b> indexed).
35	<i>Ramadhansyah Putra Jaya*, Norhidayah Abdul Hassan, Mohd Zul Hanif Mahmud, <b>Md. Maniruzzaman A. Aziz</b>, Meor Othman Hamzah, Che Norazman Che Wan,</i> “Effect of Aggregate Shape on the Properties of Asphaltic Concrete AC14” Jurnal Teknologi-Special Edition (Highway and Transportation Engineering), 2014, Volume: 71, issue:3, Pages 69–73. ( <b>SCOPUS</b> indexed).
36	<i>Gizing Sami Hamad, Ramadhansyah Putra Jaya,*, Norhidayah Abdul Hassan, <b>Md. Maniruzzaman A. Aziz</b>, Mohd Ibrahim Mohd Yusak,</i> “Influences of Crumb Rubber Sizes on Hot Mix Asphalt Mixture” Jurnal Teknologi-Special Edition (Highway and Transportation Engineering), 2014, Volume: 71, issue :3, Pages 63–68. ( <b>SCOPUS</b> indexed).
37	<i>Haryati Yaacob, Mohd. Rosli Hainin, <b>Md. Maniruzzaman A. Aziz</b>, Naquiddin M. Warid, Fung-Lung Chang, Che Ros Ismail, Norhidayah Abdul Hassan,</i> “Bitumen Emulsion in Malaysia–A Conspectus, Jurnal Teknologi, 2013, Volume: 65, issue:3, Pages 97-104. ( <b>SCOPUS</b> indexed).
38	<i><b>Md Maniruzzaman A. Aziz<sup>a*</sup></b>, Md Tareq Rahman, Mohd. Rosli Hainin, Wan Azelee Wan Abu Bakar,</i> “Alternative Binders for Flexible Pavement” International Integrated Engineering Summit 2014 (IIES2014), Universiti Tun Hussein Onn Malaysia (UTHM). Accepted for publication, ( <b>SCOPUS</b> indexed).

39	<b>Md. Maniruzzaman A. Aziz</b> , Ramadhansyah Putra Jaya*, Norhidayah Abdul Hasan, Mohd Ibrahim Mohd Yusak, Badorul Hisham Abu Bakar and Salwa Mohd Zaini, "Use of Rice husk Ash to Improve Properties of Concrete under Sodium Chloride by Wetting and Drying" 2nd International Conference on Global Sustainability and Chemical Engineering (ICGSCE), 2014 at University Technology Mara (UiTM), Shah Alam, Kuala Lumpur, Malaysia. Published. ( <b>SCOPUS</b> indexed).
40	<b>Md. Maniruzzaman B. A. Aziz*</b> , Ratnasamy Muniandy, Khazani Abdullah, Ahmad Rodzi Mahmud, Kaida Khalid, Dr. Alyani Ismail, "Preliminary determination of asphalt rheological properties by microwave techniques" Journal of Engineering and Applied Science, 2010, Volume: 5, Issue: 11, Pages 70-81. ISSN 1819 -6608.

**Total non citation-indexed journal papers published /accepted in the year 2014/2015**  
**(2 Nos.)**

1	Jinhai Gao, H. Y. Liu*, Mingjian Zhang, <b>M. M. A. Aziz</b> , "Failure Process and Support Method of Roadways Excavated in Inclined Rockmass Strata" Civil Engineering and Architecture, 2014, Volume: 2, Issue: 8, Pages 304-312. ( <b>Indexed</b> by the <b>Library of U.S Congress</b> ), ISSN: 1934-7359.
2	<b>Md. Maniruzzaman A. Aziz*</b> , Ahmed Wsoo Hamad, Abdulmalik Musa Maleka and Moetaz Elsergany, "Rheological Properties of Cellulose Oil Palm Fiber (COPF) Modified 80-100 Asphalt Binder" Journal of Advanced Research in Materials Science, 2015, Volume: 5, issue: 1, Pages 10-20. ISSN: 2289-7992. Link: <a href="http://www.akademiabaru.com/doc/ARMSV5_N1_P10_20.pdf">http://www.akademiabaru.com/doc/ARMSV5_N1_P10_20.pdf</a>

**Publication in Press and Under Review**

a. Impact Factor (IF) Journals

1	Journal of Cleaner Production, IF 4.959, Q1 "An Overview of Low Greenhouse Gases Emissions Approach in Road Construction Activities," JCLEPRO-D-15-03239R1, Revisions Being Processed for <b>Author Md Maniruzzaman A. Aziz</b> , Ph.D
2	Renewable & Sustainable Energy Reviews, IF 6.798, Q1 "Pollution to Solution: Capture and Sequestration of Carbon Dioxide (CO <sub>2</sub> ) and its Utilization as a Renewable Energy Source for a Sustainable Future" RSER-D-15-01855, Under Review, Submissions Being Processed for <b>Author Md Maniruzzaman A. Aziz</b> , Ph.D
3	Journal of Construction & Building Materials, IF 2.883, Q1 "Elevating Professionalism in Project Management," CONBUILDMAT-D-16-03014, Under Review for <b>Author Md Maniruzzaman A. Aziz</b> , Ph.D

**Total Conference Papers including Indexed Proceedings: 23 Nos.**

1. Ebenezer Oluwasola, Mohd Rosli Hainin, **Md. Maniruzzaman A. Aziz**, "Durability Assessment of Dense-Graded Asphalt Incorporating Electric Arc Furnace Steel Slag and Copper Mine Tailings" Paper ID: 161, at the 8th International Conference on Maintenance and Rehabilitation of Pavements (MAIREPAV8) at the Furama Riverfront Singapore Hotel from 27th to 29th July 2016.



2. Zohair Ahmed Altieb, **Md. Maniruzzaman A. Aziz\***, Khairul Anuar Bin Kassim, Hauwa Baffa Jibrin, "A Short Review on Partial Replacement of Asphalt Binder with Crumb Rubber", Paper ID 41. 10th International Conference on Geotechnical and Transportation Engineering (Geotropika 2016), held at Seri Pacific Hotel, Kuala Lumpur, Malaysia from 17-18 February 2016.
3. Ashraf Bin Ahmad Zaini, **Md Maniruzzaman A. Aziz\***, Khairul Anuar Bin Kassim, Khairul Hafiz Bin Mustafa, "A Brief Review On Crack Relief Layer In Airport Runway", Paper ID 45. 10th International Conference on Geotechnical and Transportation Engineering (Geotropika 2016), held at Seri Pacific Hotel, Kuala Lumpur, Malaysia from 17-18 February 2016.
4. Khairul Hafiz Bin Mustafa, **Md Maniruzzaman A. Aziz\***, Mohd Rosli Hainin, Ashraf Bin Ahmad Zaini, M. Naquiddin M. Warid, "A Brief Review on Crack Relief Layer (CRL) in Roads and Highways", Paper ID 47. 10th International Conference on Geotechnical and Transportation Engineering (Geotropika 2016), held at Seri Pacific Hotel, Kuala Lumpur, Malaysia from 17-18 February 2016.
5. Fauzan Mohd Jakarni\*, Muhammad Fudhail Rosli, Nur Izzi Md Yusoff, **Md Maniruzzaman A Aziz**, Ratnasamy Muniandy and Salihudin Hassim, "An Overview of Moisture Damage Performance Tests on Asphalt Mixtures", Paper ID 59. 10th International Conference on Geotechnical and Transportation Engineering (Geotropika 2016), held at Seri Pacific Hotel, Kuala Lumpur, Malaysia from 17-18 February 2016.
6. Ebenezer Akin Oluwasola, Mohd Rosli Hainin\*, **Md. Maniruzzaman A. Aziz**, "Effect of Moisture Damage on Gap-Graded Asphalt Mixture Incorporating Electric Arc Furnace Steel Slag and Copper Mine Tailings", Paper ID 66. 10th International Conference on Geotechnical and Transportation Engineering (Geotropika 2016), held at Seri Pacific Hotel, Kuala Lumpur, Malaysia from 17-18 February 2016.
7. Mohd Amar Ismail, Mohd Bukhari Mohd Yunus, Md. Syafiq Mohamad Daud, Nurul Hidayah Muslim, Farahiyah Abdul Rahman, **Md Maniruzzaman A. Aziz<sup>1\*</sup>**, "An Appraisal on Non-destructive and Non-automated Tests for Pavement Distress – A Case Study" in the 4th International Conference on Engineering Business Management (ICEBM) 2015 held at Hotel Maya, Kuala Lumpur from 22 – 23 August 2015.
8. **Md. Maniruzzaman A. Aziz\***, Ahmed Wsoo Hamad, Abdulmalik Musa Maleka and Moetaz Elsergany, "Rheological Properties of Cellulose Oil Palm Fiber (COPF) Modified 80-100 Asphalt Binder" Article no.: WVCASEA2015-ID-053, World Virtual Conference on Applied Sciences and Engineering Applications, held on March 27-29, 2015, in Universiti Teknologi Malaysia (UTM), Johor, Malaysia. (**SCOPUS** indexed).
9. **Md. Maniruzzaman A. Aziz\***, Ahmed Wsoo Hamad, Abdulmalik Musa Maleka, Fauzan Mohd Jakarni, "Effect of Viscoelastic Behaviour of Cellulose Oil Palm Fiber (COPF) Modified 60-70 Asphalt Binder for Deterioration for Roads and Highways" Article no.: WVCASEA2015-ID-052. World Virtual Conference on Applied Sciences and Engineering Applications, held on March 27-29, 2015, in Universiti Teknologi Malaysia (UTM), Johor, Malaysia. (SCOPUS indexed).
10. **Md Maniruzzaman A. Aziz<sup>1,2,a\*</sup>**, Md Tareq Rahman<sup>1, b</sup>, Mohd. Rosli Hainin<sup>1,2, c</sup>, Wan Azelee Wan Abu Bakar<sup>3, d</sup>, "Alternative Binders for Flexible Pavement" International Integrated Engineering Summit 2014 (IIES 2014), Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Batu Pahat, Johor, held on 1-4 December 2014. (**SCOPUS** indexed).

11. Ebenezer Akin Oluwasola<sup>1</sup>, Mohd Rosli Hainin<sup>2,3</sup> and **Md. Maniruzzaman A. Aziz<sup>2,3\*</sup>**, “Effect of aging on the resilient modulus of stone mastic asphalt incorporating electric arc furnace steel slag and copper mine tailing” International Civil Infrastructure Engineering Conferences (InCIEC 2014), held in Sabah, East Malaysia from 28.9.2014 to 01.10.2014. **SPRINGER** indexed (in Press).
12. **Md. Maniruzzaman A. Aziz**, Ramadhansyah Putra Jaya, Norhidayah Abdul Hasan, Mohd Ibrahim Mohd Yusak, Badorul Hisham Abu Bakr and Salwa Mohd Zaini, “Use of Rice husk Ash to Improve Properties of Concrete under Sodium Chloride by Wetting and Drying” 2nd International Conference on Global Sustainability and Chemical Engineering (ICGSCE), held on 20 – 22 August 2014 at University Technology Mara (UiTM), Shah Alam, Kuala Lumpur, Malaysia. **Paper ID: 69. (SCOPUS indexed).**
13. Shahab Moeini Feizabadi<sup>1</sup>, Mohd Rosli Hainin<sup>2</sup>, **Md. Maniruzzaman B. A. Aziz<sup>3\*</sup>**, Haryati Yaacob<sup>4</sup>, M. Naquiuddin M. Warid<sup>5</sup> and Manouchehr Shokri<sup>6</sup>, “A Review: Merits of Warm-Mix Asphalt Technology using Sasobit and Aspha-Min Additives”, 1st International Conference on the Science & Engineering of Materials (ICoSEM 2013), 13-14 Nov. 2013, Kuala Lumpur, Malaysia. **Paper ID 251.**
14. Ebenezer Akin Oluwasola<sup>1</sup>, Mohd Rosli Hainin<sup>2</sup>, **Md. Maniruzzaman B.A. Aziz<sup>3\*</sup>**, Haryati Yaacob<sup>4</sup> and Fung – Lung Chang<sup>5</sup>, “Potentials Of Steel Slag And Copper Mine Tailings As Construction Materials: A Review”, 1st International Conference on the Science & Engineering of Materials (ICoSEM 2013), 13-14 Nov. 2013, Kuala Lumpur, Malaysia. **Paper ID: 252.**
15. Zulfiqar Ali<sup>1</sup>, Mohd Rosli Hainin<sup>2</sup>, **Md. Maniruzzaman B.A. Aziz<sup>3\*</sup>**, Haryati Yaacob<sup>4</sup>, Fung-Lung Chang<sup>5</sup>, Abbas Mukhtar Adnan<sup>6</sup>, “Utilization of Steel Slag for the Construction of Roads in Pavement Layers A Review”, 1st International Conference on the Science & Engineering of Materials (ICoSEM 2013), 13-14 Nov. 2013, Kuala Lumpur, Malaysia. **Paper ID: 253.**
16. M. Naquiuddin M. Warid<sup>\*1,a</sup>, Mohd Rosli Hainin<sup>1,b</sup>, Haryati Yaacob<sup>1,c</sup>, **Md. Maniruzzaman B. A. Aziz<sup>1,d</sup>**, Mohd Khairul Idham<sup>1,e</sup>, “Thin Cold Mix Asphalt Overlay”, 1st International Conference on the Science & Engineering of Materials (ICoSEM 2013), 13-14 Nov. 2013, Kuala Lumpur, Malaysia. **Paper ID: 280.**
17. Mohd Rosli Hainin, Md. Maniruzzaman B. A. Aziz\* and Oluwasola Ebenezer Akin, “Steel Slag Utilization: Prospects and Challenges”, Proceeding of GEOCON 2013, A Joint Conference of International Conference in Geotechnical and Transportation Engineering (9th GEOTROPICA) and International Conference on Innovative Construction and Buildings (1st ICONBUILD), Persada Johor International Convention Centre, Johor Bahru, 28-30th Oct 2013, Pages 1221-1233. ISBN 978-967-0194-36-3. Paper ID: 200.
18. Mohd Rosli Hainin<sup>1</sup>, **Md. Maniruzzaman B. A. Aziz<sup>2\*</sup>**, Shahab Moeini Feizabadi<sup>3</sup>, Zulfiqar Ali<sup>4</sup>, Manouchehr Shokri<sup>5</sup> and Abbas Mukhtar Adnan<sup>6</sup>, “An Overall Review: Modified Asphalt Binder Containing Sasobit In Warm-Mix Asphalt Technology”, Proceeding of GEOCON 2013, A Joint Conference of International Conference in Geotechnical and Transportation Engineering (9th GEOTROPICA) and International Conference on Innovative Construction and Buildings (1st ICONBUILD), Persada Johor International Convention Centre, Johor Bahru, 28-30th Oct 2013. Pages 1297-1311. ISBN 978-967-0194-36-3. **Paper ID: 218.**

19. Mohd Rosli Hainin, **Md. Maniruzzaman B. A. Aziz\***, Manouchehr Shokri, Abbas Mukhtar Adnan, Shahab Moeini Feizabadi and Zulfiqar Ali, "A Review on Performance of Steel Slag in Highway Surface Course", Proceeding of GEOCON 2013, A Joint Conference of International Conference in Geotechnical and Transportation Engineering (9th GEOTROPICA) and International Conference on Innovative Construction and Buildings (1st ICONBUILD), Persada Johor International Convention Centre, Johor Bahru, 28-30th Oct 2013. Pages 1312-1322. ISBN 978-967-0194-36-3. **Paper ID: 219.**
20. Mohd Rosli Hainin<sup>1</sup>, **Md. Manniruzzaman B. A. Aziz<sup>2\*</sup>**, Abbas Mukhtar Adnan<sup>3</sup>, Shahab Moini Feizabadi<sup>4</sup>, Zulfiqar Ali<sup>5</sup> and Manouchehr Shokri<sup>6</sup>, "A Review on the Performance of Modified Asphalt Binder with Tire Rubber Powder", Proceeding of GEOCON 2013, A Joint Conference of International Conference in Geotechnical and Transportation Engineering (9th GEOTROPICA) and International Conference on Innovative Construction and Buildings (1st ICONBUILD), Persada Johor International Convention Centre, Johor Bahru, 28-30th Oct 2013. Pages 1323-1337. ISBN 978-967-0194-36-3. **Paper ID: 220.**
21. Mohd Rosli Hainin<sup>1</sup>, **Md. Maniruzzaman B.A. Aziz<sup>2\*</sup>**, Zulfiqar Ali<sup>3</sup>, Abbas Mukhtar Adnan<sup>4</sup>, Manouchehr Shokri<sup>5</sup>, Shahab Moeini Feizabadi<sup>6</sup>, "A Review of Steel Slag as a Road Construction Material Not an Industrial Waste". Proceeding of GEOCON 2013, A Joint Conference of International Conference in Geotechnical and Transportation Engineering (9th GEOTROPICA) and International Conference on Innovative Construction and Buildings (1st ICONBUILD), Persada Johor International Convention Centre, Johor Bahru, 28-30th Oct 2013. Pages 1338-1352. ISBN 978-967-0194-36-3. **Paper ID: 221.**
22. Ratnasamy Muniandy\*, **Md. Maniruzzaman B. A. Aziz**, Salihudin Hassim, "Preliminary study on the use of microwave permittivity in the determination of asphalt binder penetration and viscosity" Hong Kong International Conference on Engineering and Applied Science, (2012 HKICEAS)., SkyCity Marriott Hotel, Hong Kong, Conference proceedings, 14-15 December 2012. Pages 103-112. **Paper ID: 056.**
23. Ratnasamy Muniandy, **Md. Maniruzzaman B. A. Aziz**, Khazani Abdullah, Ahmad Rodzi Mahmud, Kaida Khalid, Alyani Ismail, "An overview of determination of asphalt properties using microwave techniques" World Engineering Congress (WEC) 2010, Sarawak, Malaysia, 2-5, August, 2010.

<b>SUPERVISION OF RESEARCH STUDENTS: Present Research Students, year 2015/2016</b>		
I	PhD	2 (Main Supervisor)
		2 (Co-supervisor)
ii	Master by Research	3 (Main Supervisor)
iii	Master by taught course	5 (Main Supervisor)
iv	PSM (Undergraduate)	3 (Main Supervisor)
	Total	<b>15 Students</b>

<b>TEACHING:</b>		
<b>Pavement Management System, (PMS, MAP 1113), (not shearing with anyone):</b>		
This core subject was introduced in UTM for the first time by myself in the session 201220131 for post graduate students. I am one of the two lecturers in Malaysia, who are able to teach this subject. This is due to my fifteen (15) years industrial experience in Malaysian highway industry including KL International Airport (KLIA).		
<b>Highway Engineering (SKAA 2832)</b> Undergraduate students from semester 201520162		
<b>Master Students</b>		
<b>MAP/MKAQ 1113) &amp; Lecturer teaching evaluation by stuents e-PPP</b>		
<b>Semester</b>	<b>Total students</b>	<b>e-PPP</b>
Semester, 201220131	22	4.510 (P3), MAP 1113
Semester, 201220132	26	4.615 (P4), MAP 1113
Semester, 201320141	32	4.613 (P3), MAP 1113
Semester, 201320142	33	4.760 (P4), MAP 1113
Semester, 201420151	12	4.820 (P4), MAP 1113
(less international students in the session 201420151)		5.000 (P5), MKAQ 1113(Excellent)
Semester, 201420152	31	5.000 (P5), MKAQ 1113 (Excellent) 5.000 (P5), MAP 1113 (Excellent)
Semester, 201520161	11	4.880 (P5), MKAQ 1113 (Excellent)
Semester, 201520162	19	-

<b>Road Materials and Pavement Evaluation (MKAQ 1023)</b>		
Semester, 201220131	22	4.526 (P3)
<b>Undergraduate Students</b>		
1. <b>Highway Engineering (SKAA 2832)</b>		
Semester, 201520162	37	-
2. Highway and Traffic Laboratory (SKAA 3012, 3)		
<b>Evaluation of Annual Performance Assessment Report, Academic Staff (e-LPPT), UTM</b>		
<b>e-LPPT (year)</b>	<b>Marks (%)</b>	
2012	73.00 (6 months 18 days)	
2013	86.54	
2014	<b>99.78</b>	
2015	<b>95.54</b>	

**RESEARCH PROJECTS**  
**FUNDS, PROJECT LEADER, PROJECT MEMBER**

- 2015, PY/2015/05113, Phase 3/2015, "Utilization of Carbon Dioxide (CO<sub>2</sub>) Emissions from Road Construction Industries to Renewable Energy" GUP Research Grant, Tier 2015/3, 13H00 (RM 50,000.00). **Project Leader (UTM)**. (duration: 01 Febuary 2016 – 19 January 2018).
- 2015 "Modification of Bitumen Binder for Roads and Highways by Waste Materials" GUP Research Grant, Tier 1, 09H94 (RM 42,250.00). **Project Leader (UTM)**. (duration: 01 May 2015 - 31 October 2016).

3. 2014 “Construction of Roads and Highways using Hazardous Industrial Waste Materials” GUP Research Grant, Tier 1, 09H33 (RM 20,000.00). **Project Leader (UTM)**. (duration: 01 July 2014 – 30 June 2015, Ended in June 2015).
4. 2013 “Determination of Electromagnetic Properties of Bitumen Emulsion” GUP Research Grant, PAS 00K42 (RM 30,000.00). Duration: 01 June 2013 – 31 August 2014, Ended in August 2014. Project Leader (UTM).
5. 2014, Networking Grant, Fundamental Re “Determination of Adhesive Behaviour and Failure Characteristics of Asphalt Mixtures” Ref: FRGS/1/2014/TK02/UPM/02/1), X034, (RM 89,700.00). Duration: 01 July 2014 – 30 June 2016). **Project Member, UPM**.
6. 2015 “The Effects of Coconut Shell on the Engineering Properties and Performance of Porous Asphalt” GUP Research Grant, Tier 1, 09H67 (RM 50,000.00). Duration: 01 May 2015 - 31 October 2016. **Project Member (UTM)**.
7. 2014 “Traffic Accident Predictive Model Based on Pavement Condition” GUP Research Grant, Tier 1, 06H53 (RM 50,000.00). **Project Member (UTM)**.
8. 2014, “Performance of Porous Concrete Pavement Incorporating Nano Silica From Rice Husk Ash” GUP Research Grant, Tier 2 E, 09J75, (RM 20,000.00).. **Project Member (UTM)**.
9. 2015, PY/2015/05009 “The Application of Cup Lump Rubber for Asphalt Pavement” GUP Research Grant, Tier 1, 11H76, (RM 50,000.00). Duration 15.11.2015-14.11.2017. **Project Member (UTM)**.
10. 2011 “Determination of Asphalt Properties by Microwave Techniques”, University Putra Malaysia (UPM), Malaysia. **PhD Project**.
11. 2006 “Uniformity Study of Subgrade – A case study on Jalan Pintas Rawang, Kuala Lumpur, Malaysia”, **Master Project**.

### **PROFESSIONAL SERVICES**

#### **EVALUATOR OF RESEARCH UNIVERSITY GRANT SCHEME (RUG/GUP), 1/2015**

- i. Appointment as Assessment Panel Technical Proposal Evaluation Gup 2015/3, Niche Area Innovative Engineering (Lantikan Sebagai Panel Penilai Teknikal Penilaian Proposal (GUP) 2015/3 Niche Area Innovative Engineering), Research Management Center (RMC), UTM, JB, October 2015 on PY/2015/05 PY/2015/04963149, “Eco-Driving Licence Index Manual For Promoting Low-Energy And Low-Emission”.
- ii. Appointment as Assessment Panel Technical Proposal Evaluation Gup 2015/3, Niche Area Innovative Engineering (Lantikan Sebagai Panel Penilai Teknikal Penilaian Proposal (GUP) 2015/3 Niche Area Innovative Engineering), Research Management Center (RMC), UTM, JB, October 2015 on PY/2015/05149, “Parking Generation on Government Hospitals in Malaysia”.
- iii. Appointment as Assessment Panel Technical Proposal Evaluation Gup 2015/3, Niche Area Innovative Engineering (Lantikan Sebagai Panel Penilai Teknikal Penilaian Proposal (GUP) 2015/3 Niche Area Innovative Engineering), Research Management Center (RMC), UTM, JB, October 2015 on PY/2015/05220, “Interaction Mechanism Between Bituminous Mixtures And Kenaf Fibre To Improve Rutting Resistance And Moisture Damage”.

- iv. Evaluator for the panel of application e-science fund 1/2015, Ref. UTM.J.09.09/25 (3) of dated 30 March 2015 for Smart Infrastructure and Innovative Construction (ISIIC) of potential academic staff for senior lecturer 'Arezou Shafaghat', for "Development of Driver's Green Travel Behavior Assessment Model towards Low-energy and low-emission" March 2015.
- v. Evaluator for RUG 1/2015 from Construction Research Alliance (Panel & Project Leader), "Development of High Permeability and Low Noise Concrete Paving Blocks" of Project leader Prof. Ir. Dr. Hasan Md Nor, November 2014.
- vi. Evaluator for Tier 2 of Research University Grant Scheme (RUG/GUP) from Construction Research Alliance (CRA), for senior lecturer 'Arezou Shafaghat', for "Eco-driver adaptive behavior assessment model for energy efficient car design" November 2014.
- vii. Evaluator for Research University Grant Scheme (RUG/GUP) from Construction Research Alliance (CRA), potential academic staff of senior lecturer 'Arezou Shafaghat', for "Driver's green adaptive travel behaviors in low-energy urban development" November 2014.

### **PROFESSIONAL SOCIETIES AND ACTIVITIES**

<b><u>Organization</u></b>	<b><u>Registration No.</u></b>	<b><u>Year of Registration</u></b>
Lembaga Jurutera Malaysia (BEM)	519F	1997
Lembaga Jurutera Malaysia (BEM)	519F	1996
Institute of Engineers Bangladesh (IEB)	M/6663	1986

### **SUPERVISION**

#### **a. PhD Thesis (Main Supervisor, 8 Students)**

- i. Farahiyah Bt. Abdul Rahman, (PKA143033), "Solution of pollution" February 2015 - present.
- ii. Thanwa Filza Binti Nashruddin, (PKA143042), "Solution of pollution" February 2015 - present.
- iii. Ahmad Raad Hassan (PKA143035), "Pollution to solution" February 2015 - present.
- iv. NurulHuda Binti Ahamad (PKA 153003), "Pollution to solution" February 2015 - present.
- v. Abdul Hadi bin Ahamad (PKA143047), "Managing Roads, Highways and Airport Runways with Life Cycle Cost (LCC) in view of Pavement Management System.
- vi. Fazzarieyyah Binti Abd Halim (PKA143028), "Modelling and Simulation of Airport Crack Relief Layer (CRL) into Sustainable Highway Pavement and Asset Management Systems". February 2015-
- vii. Nur Nadhira Bt. Abdul Rasid (PKA143049) "Pollution to solution" February 2015 -
- viii. Nurul Hidayah Binti Hj. Muslim, (PKA143010), "Solution of pollution" September 2014 -

**b. PhD Thesis (Co-supervisor, 2 Students)**

- i. Mohammad Naquiuddin Bin Mohd. Warid (PA103148), “Behaviour of cold stone mastic asphalt using small nominal maximum aggregate size”, April 2013 - Present (**Co-Supervisor**).
- ii. Oluwasola, Ebenezer Akin (PA123049), “Suitability of Electric Arc Furnace (EAF) steel slag and copper mine tailings in asphaltic concrete material”. March 2013 - Present (**Co-Supervisor**), Graduated in 2015.

**c. MASTER Thesis (Research, 4 students)**

- i. Mohammad Golam Kader Mahmud (MKA143013), “Evaluation of Nanoclay Modified Asphalt Binder for Road Works” September 2014 – Present (**Main Supervisor**).
- ii. Rezaul Karim Bhuiya (MKA143012), “Structural and Architectural design of Civil Defense (CD) Shelter Walls Opening) for road works” September 2014 – Present (**Main Supervisor**).
- iii. Mohammad Mosiour Rahman (MKA143011), “Development of Electromagnetic properties of Soil” September 2014 – Present (**Main Supervisor**).
- iv. Md. Tareq Rahman (MA133025) , “Development of non-traditional binder (without bitumen) for road works” February 2014 - (**Main Supervisor**)

**d. MASTER Thesis (Taught Course, 14 students)**

- i. Aiban Abdulhakim Saeed Ghaleb (MKA 151035), A new approach to recycle PET bottles as plastic aggregates in road pavement, February 2016.
- ii. Muhammad Umair Israr (MKA 151109), A new approach to recycle PET bottles as plastic aggregates in road pavement, February 2016.
- iii. Hauwa Baffa Jibrin (MKA 141102), Development of alternative of asphalt binder for Highway industry, 2015.
- iv. Lawrence Madu Chikezie (MKA141132), Evaluation of Dense Bituminous Macadam (DBM) for Roads and Highways, June 2015.
- v. Zohair Ahamed Altieb (MKA141130), Replacement of asphalt binder with waste materials for highway industry, 2015.
- vi. Ashraf Bin Ahmad Zaini (MKA141020), Design of Crack Relief Layer (CRL) for Airport Runways, 2015.
- vii. Khairul hafiz Bin Mustafa (MKA141010), Design of Crack Relief Layer (CRL) for Roads and Highways, 2015
- viii. Najeebullah Khan, “Determination of microwave properties of bitumen emulsion” August 2014, completed.
- ix. Shahab Moeini Feizabadi, “Performance Aspects of Warm-Mix Asphalt (WMA) Compare with Hot Mix Asphalt (HMA) in terms of Rutting and Fatigue”, 2014 completed.

- x. Manouchehr Shokri, "Performance of Steel Slag for wearing course compared with conventional wearing course", June 2014, completed.
- xi. Abbas Mukhtar Adnan, "Performance of Tire Rubber Powder (TRP) Modified Asphalt Binder", January 2014, completed.
- xii. Zulfiqar Ali, "Performance of Steel Slag for Wearing Course of Pavement", January 2014, completed.
- xiii. Ahmad Wsoo Hamad, "Determination of viscosity and complex shear modulus of Cellulose Oil Palm Fiber (COPF) modified bitumen blended with penetration grade bitumen binder 80-100 and 60-70", January 2014, completed.
- xiv. Ahmad R. Hassan, "Comparing Rutting and Fatigue for Sasobit Modified Asphalt Binder", January 2014, completed.

**e. Undergraduate Project (5 students)**

- i. Mohamad Shafiq Bin Suhaimi ( A13KA0075), Plastic aggregates for construction of roads, in Universiti Teknologi Malaysia 2016-2017 – Present (**Main Supervisor**).
- ii. Ahmad Kamal Akram Md. Uzir (A13KA0005), Engineering properties of plastic aggregates for road construction, in Universiti Teknologi Malaysia 2016-2017 – Present (**Main Supervisor**).
- iii. Mohd Amar Bin Ismail (B12KA0017), "Determination of pavement condition using Ground Penetrating Radar (GPR) and Dynamic Cone Penetrometer (DCP)" at Jalan Persiaran Satelit – Jalan Kolam Air, Ch 0-280 in Universiti Teknologi Malaysia 2014 – Present (**Main Supervisor**)
- iv. Mohd Bukhari Bin Mohd Yunus (B12KA0018), "Determination of pavement condition using Ground Penetrating Radar (GPR) and Dynamic Cone Penetrometer (DCP)" at Jalan Persiaran Satelit – Jalan Kolam Air, Ch 280-560 in Universiti Teknologi Malaysia 2014 – Present (**Main Supervisor**)
- v. Md Syafiq Bin Mohamad Daud (B12KA0011), "Determination of pavement condition using Ground Penetrating Radar (GPR) and Dynamic Cone Penetrometer (DCP)" at Jalan Persiaran Satelit – Jalan Kolam Air, Ch 560-840 in Universiti Teknologi Malaysia 2014 – Present (**Main Supervisor**).

**INDUSTRIAL COLLABORATION**

- i. Collaboration with IJM Corporation Berhad Workshop, held on 12 May 2016, at Senate Building, from 11:00am to 3:00pm, chaired by Deputy Vice Chancellor.
- ii. Shell Singapore is supplying free bitumen from Singapore to Faculty of Civil Engineering (FKA) including the cost of transportation in the year 2014-2016.



## **ACADEMIC SERVICES**

### **SITE VISIT WITH STUDENTS FOR PRACTICAL DEMONSTRATION OF WORK AND LABORATORY TESTS AND EQUIPMENT (10 Nos.)**

1. A visual inspection was carried out on 27 March 2016 for the Master students of semester 201520162 of Jalan Meranti (inner roads), University Technology Malaysia (UTM), Johor Bahru, for determining the deterioration of roads [Pavement Condition Index (PCI)] for rehabilitation strategies.
2. A site visit on Cold in-Place Recycling (CIPR) of Senai Desaru Expressway, Johor, Malaysia was carried out on 18 March 2016, UEM Propel Edgenta, Km 0.2-5.2, with 25 PhD and Master students.
3. A visual inspection was carried out on 05 December 2015 for the students of semester 201520161 of Jalan Meranti (inner roads), University Technology Malaysia (UTM), Johor Bahru, for determining the deterioration of roads [Pavement Condition Index (PCI)] for rehabilitation strategies.
4. A site visit was carried out on construction of road project of 5.8km Main Road from Seelong Road to Taman Impian Emas, Johor Bahru for the students of semester 2014/2015/2 on 8 May 2015. Owner: Amber Heights Sdn. Bhd and the Builder: Woon Brothers Sdn. Bhd.
5. A visual inspection was carried out on 12 April 2015 for the students of semester 201420152 of inner roads of University Technology Malaysia (UTM), Johor Bahru, for determining the deterioration of roads [Pavement Condition Index (PCI)] for rehabilitation strategies.
6. Visual inspection was carried out on 20 November 2014 for the students of semester 201420151 of inner roads of University Technology Malaysia (UTM), Johor Bahru for determining the deterioration of roads [Pavement Condition Index (PCI)] for rehabilitation strategies.
7. Demonstration of Chipseal was carried out on 12 April 2014 at Jalan Sungai Kluang, Ayer Hitam, Johor Bahru with 29 Master students of semester 201320142 to gain the practical work at site, the work was carried out by Bina Masyhur Sdn. Bhd, a member of Selia Selenggara group.
8. Visual inspection of inner roads of University Technology Malaysia (UTM), Johor Bahru for determining the deterioration of roads [Pavement Condition Index (PCI)] for rehabilitation strategies for the students of semester 201320142 on 16 March 2014.
9. Demonstration of latest road deterioration measurement equipment including Falling Weight Deflectometer (FWD), Road Scanner, Grip tester and almost all equipment presently available in Malaysia by Selia Selenggara Selatan Sdn. Bhd. Meleka with 21 PhD and Master students for the semester 2013/2014/1 on 15 January 2014.
10. Cold in-place recycling work at Batu Enam, Segamat district, Johor Bahru with 31 PhD and Master students of semester 2012/2013/2 to gain the practical work including milling and laying work, the work was carried out by Bina Masyhur Sdn. Bhd, a member of Selia Selenggara group on 5 April 2013.

## **DEMONSTRATION OF LABORATORY TESTS AND EQUIPMENT**

### **In-total Demonstration of Laboratory tests & Equipment**

- 5<sup>th</sup> Lab demonstration was carried out on 29 May, 2016 for the semester 201520162.
- 4<sup>th</sup> Lab demonstration was carried out on 22 December, 2015 for the semester 201520161.
- 3<sup>rd</sup> Lab demonstration was carried out on 4 December 2014 for the session 201420151
- 2<sup>nd</sup> Lab demonstration was carried out on 9 March 2014 for the session 201320142.
- 1<sup>st</sup> Lab demonstration was carried out in the lab of Highway and Geotechnics on 9 December 2013.

### **POSTGRADUATE THESIS/PROJECT ASSESSMENT AND EXAMINATIONS**

**(67 Nos.)**

1. Panel assessor to a PhD Thesis entitled "The Performance of Nano charcoal ash from Coconut Shell as Binder Modifier in Asphalt Mixture" Siti Nur Amira Jeffry (PKA 153001), May 2016.
2. Panel assessor to a PhD Thesis entitled "Properties of Waste Cooking Oil (WCO) as an Alternative Asphalt Binder in Hot Mix Asphalt" Wan Nur Aifa Bt. Wan Azahar, April 2015
3. Panel assessor to a PhD Thesis entitled "The Properties of Waste Cooking Oil (WCO) as an Alternative Asphalt Binder in Hot Mix Asphalt" Wan Nur Aifa Bt. Wan Azahar, April 2015
4. Panel assessor to a Master Thesis entitled "Performance of Asphaltic Concrete incorporating SBR subjected to Aging" Faisal Mohammed Salah, MKA 141026, December 2015
5. Panel assessor to a Master Thesis entitled "Effect of Fineness Coconut Shell Charcoal Ash on the Rheological Properties of Bitumen" Nurul Najihah Mad Rosni, December 2015
6. Panel assessor to a Doctorial Thesis entitled "Green Highway Life Cycle Costing by Using Linear Programming" Muhammad Faiz Bin Abd Rahman (870510015923), December 2015.
7. Panel assessor to a Doctorial Thesis entitled "Accident Prediction Model By Road Conditions In Malaysia" Sudesh Nair A/L Baskarapka, November 2015.
8. Panel assessor to a Doctorial Thesis entitled "Effect of Nanoclay modified Asphalt on Engineering Properties and Performance of Porous Asphalt" Nurulain Bte. Che' Mat PKA PA 133040, October 2015.
9. Panel assessor to a Doctorial Thesis entitled "Effect of Application of Diatomite as Anti-clogging Agent for Porous Asphalt" Nor Asniza Binti Mohamed Abdullah, MKA 143007, May 2015

10. Panel assessor to a Master Thesis entitled “Experimental Evaluation of Diatomite as Anti-stripping in Porous Asphalt Mixtures” Nurul Athma Binti Mohd Shukry, MKA 143003, May 2015.
11. Panel assessor to a Master Thesis entitled “Effect of Coconut Fiber and Coconut Shell on the Properties of Double Layer Porous Asphalt Pavement” Tay Lay Ting, MKA143008, May 2015.
12. Panel assessor to a Doctorial Thesis entitled “The Application of Waste Cooking Oil (WCO) as Bio Asphalt for Binder Modification in Porous Mix Asphalt” Wan Nur Aifa Binti Wan Azahar PKA143021, May 2015.
13. Panel assessor to a Doctorial Thesis entitled “Properties of Porous Concrete Pavement Containing Nano-Silica” Mohd Ibrahim Bin Mohd Yusak (881118016263), April 2015.
14. Panel assessor to a Doctorial Thesis entitled “Laboratory Evaluation of Bio-Asphalt as sustainable binder for Hot Mix Asphalt” Noor Azah Binti Abdul Raman (740913075044), April 2015.
15. Panel assessor to a Master Thesis entitled “Parking Demand Triend at Machap Rest Area” Muhammad Syimir Bin Abd Wahab (890601-05-5195/MA131016), December 2014.
16. Panel assessor to a Master Thesis entitled “A Study on Parking Generation at Government Office Building in Perak” Abdul Razak Ali (670613-08-6111/MA131070), December 2014.
17. Panel assessor to a Master Thesis entitled “Properties of Asphaltic Concrete AC 14 containing Coconut Shell as Course Aggregates” Siti Nur Amiera Jeffry (890212-13-6004/MA 131023), December 2014.
18. Panel assessor to a Master Thesis entitled “The Effects of Coconut Shell on the Engineering Properties of Porous Asphalt” Norhafizah Binti Manap (830426-04-5090/MA131019), December 2014.
19. Panel assessor to a Master Thesis entitled “Effect on Effort of Compaction on Hot Mix Asphalt” Mohd Amirul Hakim Bin Md Noor, (900806-01-6495/MA131082), December 2014.
20. Panel assessor to a Master Thesis entitled “Rheological Properties of Polyethylene Modified Bitumen” Moazzam Ali Mughal, (201308M10025/MA131001), December 2014.
21. Panel assessor to a Master Thesis entitled “Effect on Effort of Compaction on Warm Mix Asphalt” Azim Bin Abdul Razak, (900806-01-6495/MA131082), December 2014.
22. Panel assessor to a Doctorial Thesis entitled “Performance of Asphalt Binder Blended with Modified Nanoclay on The Engineering Properties of Porous Asphalt” Nurulain Bte Che` Mat, November 2014.
23. Panel assessor to a Doctorial Thesis entitled “Utilizing Bio- Binder from Coconut Shell to Improve the Properties of Asphalt Performance” Rosmawati Mamat, November 2014.
24. Panel assessor to a Doctorial Thesis entitled “Studies on Parking Generation at Expressway Rest Areas in Southern Peninsular Malaysia” Izzul Bin Ramli, October 2014.

25. Panel assessor to a Doctorial Thesis entitled "Permeability and Clogging Properties for Porous Asphalt Friction Course" Mohd Zul Hanif Mahmud, October 2014.
26. Panel assessor to a Master Project entitled "Influence of Crumb Rubber Size in Hot Mix Asphalt Mixture" Gizing Sami Hamad, May 2014.
27. Panel assessor to a Master Pre-project entitled "The effect of coconut shell on engineering properties of porous asphalt" Norhafizah Binti Manap, May 2014.
28. Panel assessor to a Master pre-project entitled "Evaluation of effect in compaction of Hot Mix Asphalt (HMA)" Mohd Amirul Hakim Bin Md. Noor, May 2014.
29. Panel assessor to a Doctorial Thesis entitled "Laboratory Evaluation of Bio-Asphalt as sustainable binder for Hot Mix Asphalt" Noor Azah Binti Abdul Raman (740913075044), April 2014.
30. Panel assessor to a Doctorial Thesis entitled "Properties of Porous Concrete Pavement Containing Nano-Silica" Mohd Ibrahim Bin Mohd Yusak (881118016263), April 2014.
31. Panel assessor to a Doctorial Thesis entitled "Automated Decision Making Model for Green Highway Life Cycle Cost by Using Linear Programming Method" Muhammad Faiz Bin Abd Rahman (870510015923), April 2014.
32. Panel assessor to a Doctorial Thesis entitled "Performance of Recycled Mixture Containing Waste Engine Oil in Warm Mix Asphalt" Nurul Hidayah Binti Mohd Kamaruddin, March 2014.
33. Panel assessor to a Master Project entitled "Influence of Flaky Aggregates on Stone Mastic Asphalt (SMA)" Mohammed Mansoor Mofreh Gubran, December 2013.
34. Panel assessor to a Master Project entitled "Performance of Underside Shaped Concrete Block Pavement Under Horizontal Loading" Nur Nadhira Binti Abdul Rasid, December 2013.
35. Panel assessor to a Master Project entitled "The Effect of Rubber Bitumen Interaction on the properties of Dry Mixed Rubberised Asphalt Mixture" Abdul Warith Ibrahim Bibi Farouk, December 2013.
36. Panel assessor to a Master Project entitled "The Effect of Crumb Rubber Size and Content on the Properties of Dry Mixed Rubberised Asphalt Mixtures" Ali Abdul Hussein abdul Ridha, December 2013.
37. Panel assessor to a Master Project entitled "Investigation of the Macro Structure Properties of Porous Asphalt" Kabiru Abdullahi Ahmad, December 2013.
38. Panel assessor to a Master Pre-project entitled "Influence of Crumb Rubber Size in Hot Mix Asphalt" Gizing Sami Hamad, December 2013.
39. Panel assessor to a Doctorial Thesis entitled "Permeability and Clogging Behaviour for Asphalt Mixtures under Tropical Climate" Mohd Zul Hanif Mahmud, November 2013.
40. Panel assessor to a Doctorial Thesis entitled "Porous Concrete Block Pavement" Nur Hidayah Abd Halim, November 2013.

41. Panel assessor to a Master Pre-project entitled "Performance of Dry mixed Rubberised Asphalt with Different Sizes of Crumb Rubber" Ali Abdul Hussein Abdul Ridha, July 2013.
42. Panel assessor to a Master Project entitled "The Effect of Aging on Asphaltic Concrete Containing Rubber by Using Loss Abrasion" Diana Binti Naubi, July 2013.
43. Panel assessor to a Master Project entitled "Effect of Palm Oil Fuel Ash (POFA) Fineness on the Mechanical Properties of Asphaltic Concrete AC 14" Maleka Abdul Malik Musa, July 2013.
44. Panel assessor to a Master Project entitled "The Effect of Time Dependent on Absorption of Asphaltic Concrete and Subjected to Aging" Thanwa Filza Binti Nashruddin, May 2013.
45. Panel assessor to a Master Project entitled "Effect of using Ethylene Vinyl Acetate (EVA) Polymer on Asphalt Pavement" Nurulain Bte Che Mat, May 2013.
46. Panel assessor to a Doctorial Thesis entitled "Assessment Model for Material and Technology Elements in Green Highway Index" Mastura Bujang, April 2013.
47. Panel assessor to a Master Project entitled "Engineering Properties and Performance of Waste Engine Oil in Warm Mix Asphalt" Nurul Hidayah Mohd Kamaruddin, April 2013.
48. Panel assessor to a Doctorial Thesis entitled "Porous Concrete Block Pavement" Nur Hidayah Abd Halim, January 2013.
49. Panel assessor to a Master Project entitled "The construction of road diversion in swampy area at Jalan Lencongan Kurong Tengar, Perlis, case study" Noor Izaidah Binti Md Nasir, December 2012.
50. Panel assessor to a Doctorial Thesis entitled "Influence of Raised intersection on traffic flow and delay" Seyed Mehrdad Ghaemi, December 2012.
51. Panel assessor to a Master Project entitled "Effect of flaky aggregates on AC 14" Mohd Daud Bin Jarkasi, December 2012.
52. Panel assessor to a Master Project entitled "Effect of aging on asphalt mix" Ali Moghaddasi, December 2012.
53. Panel assessor to a Master Project entitled "Effect of fine aggregate angularity on rutting resistance on AC 10" Izzul Bin Ramli, December 2012.
54. Panel assessor to a Master Project entitled "Effect of flaky aggregate on Marshall properties for asphaltic concrete AC 20" Zaini Bin Abd. Karim, December 2012.
55. Panel assessor to a Master Project entitled "Influence of flaky aggregate toward creep and resilient modulus on AC 20" Mohd Zul Hanif Bin Mahmud, December 2012.
56. Panel assessor to a Master Project entitled "Utilization of builders debris' recycled aggregates in asphaltic binder course aggregate" Ahmad M. Abu Draz, December 2012.
57. Panel assessor to a Master Project entitled "Flaky aggregates effect on creep and resilient modulus of AC 14" Muhammad Faiz Bin Abd Rahman, December 2012.
58. Panel assessor to a Master Project entitled "The effect of fine aggregates angularity on Marshall properties of AC 14" Khairil Azman Bin Masri, December 2012.

59. Panel assessor to a Master Project entitled “The effect of rubber dipping by-product on bitumen properties” Ruzaini Binti Mohamad Khalid, December 2012.
60. Panel assessor to a Master Pre-project entitled “Effect of using Ethylene Vinyl Acetate (EVA) polymer on asphalt pavement” Nurulain Che Mat, December 2012.
61. Panel assessor to a Master Pre-project entitled “The effect of asphaltic concrete on absorption subjected to aging” Thanwa Fiilza Nashruddin, December 2012.
62. Panel assessor to a Master Pre-project entitled “Evaluation of abrasion loss on asphaltic concrete subjected to aging” Abdirizak Osman Dawlad, December 2012.
63. Panel assessor to a Master Pre-project entitled “Tack coat evaluation” Liew Yee Shian, December 2012.
64. Panel assessor to a Master Pre-project entitled “Tack coat evaluation” Vrida Ingrid Vellan, December 2012.
65. Panel assessor to a Doctorial Thesis entitled “Recycling of hot mix asphalt mixture” Mohd Khairul Idham Bin Mohd Satar, November 2012.
66. Panel assessor to a Doctorial Thesis entitled “Evaluation of the performance of bond strength between pavement surfacing layers” Chang Fung-Lung, November 2012.
67. Panel assessor to a Doctorial Thesis entitled “Mid block u-turn facility” Iman Abbaszadeh Fallah, November 2012.

### **UNDERGRADUATE FINAL YEAR PROJECT ASSESSMENT AND EXAMINATIONS**

**(61 Nos.)**

1. Panel assessor to a Undergraduate Project, “Effect of Bitumen Emulsion on Sand Bedding Layer of Concrete Block Pavement” Putri Fatin Amira Binti Saadon (A12KA0163), June 2016.
2. Panel assessor to a Undergraduate Project, “Asphalt Block Using Recycled Asphalt Pavement” Siti Nur Naqibah Binti Kamarudin, (A12KA0178), June 2016.
3. Panel assessor to a Undergraduate Project, “The Effect of Bitumen Emulsion as an Additive to Jointing Sand” Siti Farhana Binti Abd Malek, (A12KA0173), June 2016.
4. Panel assessor to a Undergraduate Project, “Analysis of Road Accident at T-Junction” Farah Nabila Binti Hashim, (A12KA0026), June 2016.
5. Panel assessor to a Undergraduate Project, “Performance of Different Types of Road Humps in Univeristi Teknologi Malaysia” Ting Hui Min (A12KA0192), June 2016.
6. Panel assessor to a Undergraduate Project, “Rheological Study of Modified Bitumen Using Strene-Butadiene-Styrene (SBS)” Nazhatul Syazwanee Binti Jajuli, (A12KA0099), June 2016.
7. Panel assessor to a Undergraduate Project, “Study the Performance of Modified Asphalt Mixture Using Strene-Butadiene-Styrene (SBS)” Nur Izzati Binti Saad, (A12KA0134), June 2016.

8. Panel assessor to a Undergraduate Project, "Study the Performance of Modified Asphalt Mixture Using Strene-Butadiene-Styrene (SBS)" Siti Nursyazana Binti Yaacop, (A12KA0179), June 2016.
9. Panel assessor to a Undergraduate Project, "The Effect of Fast Pyrolysis Bio-oil from Oil Palm Empty Fruit Branch on Bitumen Properties" Chia Chin Poh, (A12KA0014), June 2016.
10. Panel assessor to a Undergraduate Project, "Effect of Using Waste Cooking Oil on the Bitumen Properties" Maisarah Binti Rasman, (A12KA0047), June 2016.
11. Panel assessor to a Undergraduate Project, "A Study on the Efficiency of Bus Service in UTM" Yvonne Pui, (A12KA0200), June 2016.
12. Panel assessor to a Undergraduate Project, "The Effect of Black Rice Husk Ash on the Rheological Properties of Bitumen" Raissa Romastarika, (A11KA2002), June 2016.
13. Panel assessor to a Undergraduate Project, "Utilization of Waste Plastic as Additive to Improve Asphalt Mixture" Siti Aminah Binti Abd Kader, (A12KA0202), June 2016.
14. Panel assessor to a Undergraduate Project, "The Effect of Coconut Shell as Course Aggregate in Asphalt Mixture" Amirah Hannani Binti Madzaili, (A12KA0010), June 2016.
15. Panel assessor to a Undergraduate Project, "The Use of Plastic Waste in Bituminous Mixture for the Road Pavement" Nurul Asyiqin Binti Ahmad, (A12KA0155), June 2016.
16. Panel assessor to a Undergraduate Project, "The Use of Kenaf Fibers as a Stabilizing Agent in Asphaltic Concrete" Fansuriah Zainab Binti Mohamad Sukor, (B13KA0012), June 2016.
17. Panel assessor to a Undergraduate Project, "Use of Cup Lump Rubber for Bitumen Modification" Nur Haslinda Binti Danial (B13KA0049), May 2016.
18. Panel assessor to a Undergraduate Project, "Performance of Concrete Pavement Incorporating Kaolin Clay" Mohd Nor Afiq Bin Shahafuddin, December 2015.
19. Panel assessor to a Undergraduate Project, "Relationship between Time Mean Speed and Space Mean Space under various Weather Condition" Muhammad Afiq Naquiuddin Bin Muhamad Zubir December 2015.
20. Panel assessor to a Undergraduate Project, "The Impact of Rainfall at Night on Vehicle's Speed-Flow-Density Relationship" Nurul Aishah Binti Ahmad Suhaimi December 2015.
21. Panel assessor to a Undergraduate Project "Application of Spike Concrete Block Pavement as Edge Constaraint" Alvin Joss Gurubot, November 2015.
22. Panel assessor to a Undergraduate Project "Effectiveness of Block's Spike Design for Edge Restaraint" Nurul Amalina Binti Mohammad Sani, November 2015.
23. Panel assessor to a Undergraduate Project "Use of Plastic Waste in Bitumen Mixture" Nurul Asyiqin Binti Ahmad, November 2015.

24. Panel assessor to a Undergraduate Project “Study the performance of Modified Asphalt Mixture using Styrene Butadiene Styrene (SBS) using AC 14” Siti Nursyazana Binti Yaacop, November 2015.
25. Panel assessor to a Undergraduate Project “Effect of Shear Resistance of the Bedding Sand on the Underside Shape Concrete Block (USCB)” Nor Syafira Bt Muzamil, June 2015.
26. Panel assessor to a Undergraduate Project “Performance of Cold Mix Asphalt using Medium Setting Emulsion” Nor Arifah Binti Mispan, June 2015.
27. Panel assessor to a Undergraduate Project “Effect of Air Voids Content and Soaking Time on the Performance of Porous Asphalt” Siti Noorafiffah Munirah Bt Che Mohd Rosli, June 2015.
28. Panel assessor to a Undergraduate Project “Shear Resistance of Bedding Soil on Underside Shaped Concrete Block” Nur Ayunni Fatin B Mazlan, June 2015.
29. Panel assessor to a Undergraduate Project “The Properties of Virgin Asphalt Blended with Waste Engine Oil and Artificial Aged Asphalt Binder” Nur Shahira Binti Samsuri, June 2015.
30. Panel assessor to a Undergraduate Project “Left Turning Vehicles Bypassing Signalized Intersection” Diana Mutia Binti Naziruddin, June 2015.
31. Panel assessor to a Undergraduate Project “Calibration of Automatic Traffic Counter using Video Recording” Arif Bin Mohd Arshad, June 2015.
32. Panel assessor to a Undergraduate Project “Performance of Multiple Blended Binders on the Properties of Concrete Pavement” Tan Huan Chan, June 2015.
33. Panel assessor to a Undergraduate Project “Comparison between Point and Segmented Flow for Two-lane Single Carriageway Road” Siti Farhana Binti Abd Ghani, June 2015.
34. Panel assessor to a Undergraduate Project “Concrete Block Pavement without Edge Restrain” Al-Amin B Jamaluddin, June 2015.
35. Panel assessor to a Undergraduate Project “Measuring Passenger Car Equivalent at Signalized Intersection” Nailly Izzaty Binti Mat Sidek, June 2015.
36. Panel assessor to a Undergraduate Project “Effect of Rainfall on Speed-flow-density Relationship at Night in Terengganu” Nurul'azizah Mukhlas, June 2015.
37. Panel assessor to a Undergraduate Project “Effect of Rainfall on Speed at Night: a case study Terengganu” Zulhilmi Abdullah, June 2015.
38. Panel assessor to a Undergraduate Project “The Effect of EVA as Additive in the Bitumen” Fuad Fazrin Bin Jamil (920506-12-5233), December 2014.
39. Panel assessor to a Undergraduate Project “Asphaltic Concrete Incorporating Ethylene Vinyl Acetate” Siti Aspalaili Binti Mohamd Sharif (Matric No. A11KA0174), December 2014.



40. Panel assessor to a Undergraduate Project "Influence of Rainfall on Speed under Artificial Light Condition" Zulhmi Bin Abdullah (Matric No. A11RS0120), December 2014.
41. Panel assessor to a Undergraduate Project "The Relationship between the Air Void Contents and the Durability of the Porous Asphalt Pavement" Syazwani Binti Abdul Hamid, June 2014.
42. Panel assessor to a Undergraduate Project "The Effect of Road Gradient on Travel Time" Suryani Binti Parman, June 2014.
43. Panel assessor to a Undergraduate Project "Trend Estimation of Travel Speed at Roundabout" Lim Zi Kuan, June 2014.
44. Panel assessor to a Undergraduate Project "Properties of Double Layer Rubberized Concrete Paving Blocks" Lee Kuan Lim, June 2014.
45. Panel assessor to a Undergraduate Project "Effect of Different Air Voids content on the Performance of Porous Asphalt" Nurainaa Adi, June 2014.
46. Panel assessor to a Undergraduate Project "Effect of Air Voids content on the Performance of Porous Asphalt" Noraziela Binti Rahmat, June 2014.
47. Panel assessor to a Undergraduate Project "Vehicle Speed Downstream of the Roundabout" Chia Chin Fung, June 2014.
48. Panel assessor to a Undergraduate Project "Skid Resistance Performance of Asphalt Wearing Course using Steel Slag" Mohamad Azhar Che Him, June 2014.
49. Panel assessor to a Undergraduate Project "Vehicle Headway Distribution of Traffic Signal" Emir Akief Bin Ahmad Saifuddin, June 2014.
50. Panel assessor to a Undergraduate Project "Vehicle Speed Downstream of the Traffic Signal" Lukman Khidir Bin Zainal Abidin, June 2014.
51. Panel assessor to a Undergraduate Project "Effect of Clogging of the Permeability of Porous Asphalt" Nurul Athma Binti Mohd Shukry, June 2014.
52. Panel assessor to a Undergraduate Project "Establishment of Suitable Gradation for Cold Mix Porous Asphalt" Lim Jee Wen, June 2013.
53. Panel assessor to a Undergraduate Project "The Effect of Horizontal Movement on Concrete Block Pavement due to Bedding Sand Thickness and Laying Pattern" Azhar Bin Mohd Hussin, June 2013.
54. Panel assessor to a Undergraduate Project "The Effect of Lime as Additive in the Jointing Sand for Concrete Block Pavement" Mohd. Farid Bin Abdul Rashid, June 2013.
55. Panel assessor to a Undergraduate Project "Pavement Materials" Mohamad Firdaus Bin Shahidan, June 2013.
56. Panel assessor to a Undergraduate Project "Pavement Materials" Mohd Haniff Bin Mohd Sani, June 2013.
57. Panel assessor to a Undergraduate Project "Performance of Microsurfacing at Federal Route FT 001Jalan Gemas-Tampin, Section 244-245" Ammirul Bin Mazelan, June 2013.

58. Panel assessor to a Undergraduate Project “Research of Road Accidents at Km 4.1, Precint 11-Lebuh Sentosa, Putrajaya” Gogilans/o Murugesu, June 2013.
59. Panel assessor to a Undergraduate Project “Study on Temperature and Strength in Flexible Pavement” Ismarizal Vin Ismail, June 2013.
60. Panel assessor to a Undergraduate Project “Comparison of the Cold in-place Recycling using 100% Aggregate and Mixed Asphalt Concrete with Fresh Aggregates” Junaini Salleh, June 2013.
61. Panel assessor to a Undergraduate Project “Performance and Road Maintenance at Jalan Kg. Brunei / Kg. Baru / Kg. Kut / Kg. Kut Muara, Dalat District, Mukah, Sarawak” Noor Susielawati Binti Ismail, June 2013.

**REVIEWER OF JOURNALS**  
**(25 Nos.)**

1. “Development of an Improved Open Graded Premix Carpet for Single Laying by Cold Mix Design” Journal of Traffic and Transportation Engineering. May 2016
2. “Physical Properties and Storage Stability of Geopolymer Modified Asphalt Binder” (ID 16), Jurnal Teknologi, January 2016.
3. “Rheological Properties of Styrene-Butadiene-Rubber as Modified Bitumen” (ID N3), Jurnal Teknologi, January 2016.
4. “Recycling Toward Sustainable Pavement Development:End-of-Life Considerations in Asphalt Pavement” (ID 90), Jurnal Teknologi, January 2016.
5. “Performance of Stone Mastic Asphalt Mix Using Selected Fibres” (ID:19), Jurnal Teknologi, December 2015.
6. “Experimental Evaluation of Anti-Stripping Additives on Porous Asphalt Mixtures” (ID: 23), Jurnal Teknologi, December 2015.
7. “Microstructure And Physical Properties of Nanosilica Modified Asphalt Binder” (ID: 44), Jurnal Teknologi, December 2015.
8. “Investigation On Ruting Performance Of Nanocomposite Polymer Modified Binder Asphalt Mixes” (ID: 79), Jurnal Teknologi, December 2015.
9. Ms. Ref. No.: HAZMAT-D-15-02730, Title: “Multidisciplinary Approach to the Environmental Impact of Steel Slag Reused in Road Construction” Journal of Hazardous Materials (Q1), August 2015.
10. Difference In Behavior Of Right-Turning Vehicles And Their Effect On Safety At Unsignalized Intersections In Malaysia, for Jurnal Teknologi Special Issue (Transportation Behaviour & Human Factors), July 2015.
11. Strength of Porous Concrete Pavement at Different Curing Methods, for Jurnal Teknologi Special Issue (Transportation Behaviour & Human Factors), July 2015. Mohd Ibrahim Mohd Yusaka, Ramadhansyah Putra Jayaa\*, Mohd Rosli Hainina, Mohd Haziman Wan Ibrahim.

12. Laboratory Evaluation On The Effect Of Clogging On Permeability Of Porous Asphalt Mixtures, for Jurnal Teknologi Special Issue (Transportation Behaviour & Human Factors), July 2015. Norhidayah Abdul Hassan\*, Nor Asniza Mohamed Abdullah, Nurul Athma Mohd Shukry, Mohd Zul Hanif Mahmud, Nur Zurairahetty Mohd Yunus, Ramadhansyah Putrajaya, Mohd Rosli Hainin, Haryati Yaacob.
13. Travel Behaviour Modification Technique – A Framework For Increasing Carbon Footprint Awareness Towards Adolescents In Developing Country” for Jurnal Teknologi Special Issue (Transportation Behaviour & Human Factors), July 2015. Nur Sabahiah Abdul Sukor\*, Nur Khairiyah Basri, Sitti Asmah Hassan
14. Utilization Of Coconut Shell And Coconut Fiber In Road Construction, for Jurnal Teknologi Special Issue (Transportation Behaviour & Human Factors), July 2015. Tay Lay Ting<sup>a</sup>, Ramadhansyah Putra Jaya<sup>a</sup>, Norhidayah Abdul Hassan<sup>a</sup>, Haryatiyaacob<sup>a</sup>, Dewi Sri Jayanti<sup>b</sup>
15. Sub-reviewer of conference papers of 8th Innovation, Arabia Conference in the Hamdan Bin Mohammed Smart University, United Arab Emirates (UAE), Paper #136, “Green Economy - Carbon Dioxide: From Pollution to Solution” of Prof Adi Arida 2014-2015.
16. Reviewer of article “The effect of Aggregate’s Angularity on Engineering Properties and Performance of Porous Asphalt”, Jurnal Teknologi-Special Edition (Highway and Transportation Engineering) on October 2014.
17. Reviewer of article “A Review on The Warm Mix Asphalt Technology”, Jurnal Teknologi-Special Edition (Highway and Transportation Engineering) on July 2014.
18. Reviewer of article “Properties of asphaltic concrete containing Sasobit”, Jurnal Teknologi-Special Edition (Highway and Transportation Engineering), on July 2014.
19. Reviewer of article “Effect of jointing sand sizes and widths on horizontal displacement of concrete block pavement”, Jurnal Teknologi-Special Edition (Highway and Transportation Engineering) on July 2014.
20. Review of paper #1569987135, “Pavement assessment of Farm Roads in Bhutan” of International Civil and Infrastructure Engineering Conference (InCIEC), July 2014.
21. Reviewer of article “Sustainability in Construction Projects Toward the Final Account Closing Success” from Geocon 2013 conference in special issue of Journal technology, on June 2014 (CRC-Geocon 2014).
22. Reviewer of article “Investigation on Future Building Performance Factors Towards Energy Efficient Travel Plan in Regional Development” from Geocon 2013 conference in special issue of Journal technology, on June 2014 (CRC-Geocon 2014).
23. Reviewer of article “Open Plan Office Design Features Affecting Staff's Health And Well-Being Status” from Geocon 2013 conference in special issue of Journal technology, on June 2014 (CRC-Geocon 2014).
24. Reviewer of article “Mix design and properties evaluation of dry mixed rubberized asphalt” of Special Edition of (Sustainable issues on Transportation Engineering) Journal technology, on May 2013.
25. Reviewer of article “Occupational noise exposure among road construction workers” from Geocon 2013 conference, on August 2013 (CRC-Geocon 2013).

## **MEMBER of EDITORIAL BOARD OF JOURNAL / CONFERENCES / REVIEWER**

1. Member of Editorial Board Committee for the International Symposium of Civil and Environmental Engineering,- (ISCEE 2016), which will be held in December 2016, Malacca, Malaysia.
2. Member of Editorial Board Jurnal Teknologi – Special Issue (Highway and Transportation Engineering, Ref of appointment letter: UTM.J.12.01.00/18.10/17Jld.3 dated 29 March 2016.
3. Member of Editorial Board Jurnal Teknologi – Special Edition (Highway and Transportation Engineering, Ref of appointment letter: UTM.J.12.01.00/18.10/17/5 s.k 40(5), dated 21 May 2014.
4. Appointment as a Reviewer Jurnal Teknologi – Special Issue (Sustainability and construction management), dated 4 November 2014.

## **SPECIAL PRESENTATION**

1. Special Presentation on Bio-Asphalt “Development of Non-Traditional Binder for Roads and Highways” to Deputy Minister of MOSTI (Ministry of Science, Technology and Innovation) Y.B. Datuk Dr. Abu Bakr bin Mohamad Diah on 22<sup>nd</sup> April 2014 at UTM, Johor Bahru.

## **RECOGNITION**

- Session Chair of GEOCON 2013, a Joint Conference of International Conference in Geotechnical and Transportation Engineering (9<sup>th</sup> GEOTROPIKA) And International Conference of Innovative Construction And Buildings (1<sup>st</sup> ICONBUILD), Persada, Johor Bahru, 28-30 October 2013.

## **PROFESSIONAL TALK/FORUM**

Lectures delivered for the graduate students of lesser developed countries, organized by IKRAM on behalf of Malaysian Government, under the Malaysian Technical Assistance program, August 2008.

- Technology of Malaysian Road construction
- Drainage system of Malaysian roads
- Testing of highway engineering materials of Malaysian roads

## **PRESENTATION IN CONFERENCES**

1. Ashraf Bin Ahmad Zaini, **Md Maniruzzaman A. Aziz\***, Khairul Anuar Bin Kassim, Khairul Hafiz Bin Mustafa, “A Brief Review On Crack Relief Layer in Airport Runway”, Paper ID 45. 10th International Conference on Geotechnical and Transportation Engineering (Geotropika 2016), held at Seri Pacific Hotel, Kuala Lumpur, Malaysia from 17-18 February 2016.

2. Khairul Hafiz Bin Mustafa, **Md Maniruzzaman A. Aziz\***, Mohd Rosli Hainin, Ashraf Bin Ahmad Zaini, M. Naquiddin M. Warid, "A Brief Review on Crack Relief Layer (CRL) in Roads and Highways", Paper ID 47. 10th International Conference on Geotechnical and Transportation Engineering (Geotropika 2016), held at Seri Pacific Hotel, Kuala Lumpur, Malaysia from 17-18 February 2016.
3. Mohd Amar Ismail, Mohd Bukhari Mohd Yunus, Md. Syafiq Mohamad Daud, Nurul Hidayah Muslim, Farahiyah Abdul Rahman, **Md Maniruzzaman A. Aziz\***, "An Appraisal on Non-destructive and Non-automated Tests for Pavement Distress – A Case Study" at 4<sup>th</sup> International Conference on Engineering Business Management (ICEBM 2015) held on 22-23 August 2015 (Maya Hotel, Kuala Lumpur) jointly organized by UTM Razak School of Engineering and Advance Technology and Graduate School of Business Administration (GSBA) Meiji University, Tokyo, Japan.
4. ICoSEM 2013, "Thin Cold Mix Asphalt Overlay", 1<sup>st</sup> International Conference on the Science & Engineering of Materials, 13-14 Nov. 2013, Kuala Lumpur, Malaysia.
5. World Engineering Congress (WEC 2010), An overview of determination of asphalt properties using microwave techniques, Sarawak, 2-5, August, 2010.

### **COURSES/CONFERENCES/SEMINARS ATTENDED**

#### **Presentation in international conferences/world congress/symposiums/seminars** (24 Nos.)

1. Attending a three (3) days workshop on "Kursus Pavement Forensic Investigation" held on 6-8 October 2015 in the Faculty of Civil Engineering with 28 staff from the Jabatan Kerja Raya (JKR), PWD Malaysia.
2. Attended a Supervisory Orientation Course (AS 101), organized by UTM Academic Leasershship (UTMLead) on 3<sup>rd</sup> September 2015.
3. Attending 4<sup>th</sup> International Conference on Engineering Business Management (ICEBM 2015) held on 22-23 August 2015 (Maya Hotel, Kuala Lumpur) jointly organized by UTM Razak School of Engineering and Advance Technology and Graduate School of Business Administration (GSBA) Meiji University, Tokyo, Japan.
4. Training on Malaysian Highway Index (MyGHI) from 5 to 6 May 2015, Malaysian highway Authority (LLM) at Johor Bahru, Johor, Malaysia.
5. ISO Awareness Course 2014 on 18 December 2014 at M46, FKA, UTM
6. Attending International Integrated Engineering Summit 2014 (IIES2014), Universiti Tun Hussein Onn Malaysia (UTHM), 86400 Parit Raja, Batu Pahat, Johor on 3-4 December 2014.
7. Training on Malaysian Highway Index (MyGHI) on 16 October 2014, Malaysian highway Authority (MHA), Kajang, Selangor, Malaysia.
8. UTM-CRA Strategic Planning a two day Workshop from 29 -30 September 2014, Pulai Springs Resort, Johor Bahru, Johor.
9. UTM Construction Research Centre (UTM CRC), 28 May 2014, Seminar Room, Blok M50, Faculty of Civil Engineering (FKA), UTM, Johor Bahru.
10. 52nd Convocation ceremony, attended on 24 May (Saturday) 2014,

11. "Green Highway Index Malaysia" a joint workshop, organized by UTM-LLM meeting Hotel Colmar Tropical Berjaya Hills, KM 48, Persimpangan Bertingkat, Lebuhraya Karak, 28750 Bukit Tinggi, Pahang, Malaysia, from 9 to 10 December 2013.
12. ICoSEM 2013, 1st International Conference on the Science & Engineering of Materials, 13-14 Nov. 2013, Kuala Lumpur, Malaysia.
13. GEOCON 2013, a Joint Conference of International Conference in Geotechnical and Transportation Engineering (9th GEOTROPIKA) and International Conference of Innovative Construction And Buildings (1st ICONBUILD), Persada, Johor Bahru, 28-30 Oct 2013
14. BIS-Invention, innovations & public relations, University Putra Malaysia, (UPM), 17 April, 2009, Participant.
15. Education symposium, "Innovations in measurement", Agilent Technologies & MIMOS, Kuala Lumpur, MIMOS, 26 March, 2009, Participant.
16. Managing references effectively and professionally, University Putra Malaysia, Malaysia, 15 June, 2008, Participant.
17. International seminar on Stone Mastic Asphalt (SMA), REAM, Malaysia, 13 March, 2008, Participant.
18. Basic academic writing, University Putra Malaysia, Malaysia, 19-30 June, 2006, Participant.
19. Communicating in English, University Putra Malaysia, Malaysia, 19-30 June, 2006, Participant
20. Short course on "Geosynthesis in transportation application", University Putra Malaysia, Malaysia, 18 May, 2005, Participant, Talked by Professor Richard A. Reid, PhD , PE, Professor, Civil and Environmental Engineering, South Dakota State University, USA.
21. Short course on "Geotechnical aspects of subgrade material in road construction", University Putra Malaysia, Malaysia, 16 July, 2004, Participant, Talked by Professor Vern Schaefer, Iowa State University, USA.
22. Potential of earthquake risks in Malaysia and its mitigation using rubber bearing, Institute of Engineers, Malaysia, IKRAM Park, 17 May, 2005, Participant.
23. Specifications for Geotechnical Works, Institute of Engineers, Malaysia, IEM-REAM, 1 Dec. 2005, Participant.
24. Auditing the contractor's quality system, Quality Strategies Consult Sdn. Bhd, Malaysia, Kuala Lumpur, 21-22 July, 1999, Participant.

### **TECHNICAL REPORTS**

1. Farm roads and Bridges - Aggregate surfaced roads, DID Manual 5, Chapter 7, Ministry of Agriculture, (MoA), Malaysia, 2009.
2. Seismic study for Malaysia, IKRAM-JKR-Endeavour Consult Sdn. Bhd, JKR-IKRAM Malaysia, 2005.

3. Investigation of failure the 12.5m high embankment, ERL bridge of Jalan B20 (Bukit Changgang to Salak Tinggi, Nilai), JKR (PWD), KL- HQ, Malaysia, 2002.
4. Report of Settlement at Geotextile Pile Embankments by Instrumentation (Slope Indicator), Package 1A, Jalan B 20, (Bukit Changgang to Salak Tinggi, Nilai), JKR, KL- HQ, Malaysia, 2002.

**Industrial Experiences in Malaysian Highways and Airport Runways:**

**PROFESSIONAL / INDUSTRIAL EXPERIENCE**

**a. Endeavour Consult Sdn. Bhd**

	<b>Endeavour Consult Sdn. Bhd (01.12.2001-31.10.2006, 4 years 11 months)</b>				
	<b>Design Engineer:</b> Design of roads, infrastructure for various projects undertaken by the company <b>Assistant Resident Engineer:</b> Supervision of highway projects, warehouse and other infrastructures undertaken by the company				
<b>a.</b>	<b>Name of Project</b>	<b>Responsibility</b>	<b>Amount (RM)</b>	<b>Owner</b>	<b>Duration</b>
i.	Naiktaraf Jalan dan Ganti 1 Jambatan Kayu di Jalan Kg. Melayu Sempalit, Raub, Pahang, Darul Makmur, Malaysia.	Design	15 million	JKR, Pahang	2001-2001
ii.	Eastern Access to Kuala Lumpur (KLIA) International Airport, 1B2, of B 20,	Assistant Resident Engineer	219 million	JKR-HQ, Malaysia	2002-2004
iii.	Ware house for Crown Relocation	Resident Engineer	35 million	Crown Worldwide Movers	2004-2005
iv.	Seismic Study for Malaysia (partly)	Research associates	1.5 million	JKR-IKRAM, Malaysia	2004-2005
v.	Road Safety Audit of "Projek menaiktaraf jalan persekutuan dari simpang Lee rubber ke Universiti Islam Antarabangsa	Design / Safety auditor	0.15 million	Metramac Corporation Sdn. Berhad	2005-2006
vi.	Road Safety Audit of Existing Road (Stage 5 Audit) at East-West Link Expressway and KL-Seremban Expressway	Design / Safety auditor	0.18 million	Metramac Corporation Berhad	2005-2006

<b>b.</b>	<b>Pro-plan Management Services Sdn. Bhd.</b>				
i.	Proposed construction of 328 units of class 'G' & 'E' residential units for General Hospital, Kuala Lumpur ( 2 units 20 storied & 1 unit 7 storied buildings)	Project Planning, QA & PQP plan	55 million	HKL	30.11.2001-01.02.2001  (0Y 10 months)
ii.	Rehabilitation of 10 km road for industrial area of Kampung Baru Sungai Buloh, Selangor	Design	0.42 million	Private	2001
<b>c.</b>	<b>Panzana Enterprise Sdn. Bhd. (01.03.1999-31.01.2001, 1 year 11 months),</b>				
i.	Cadangan Persimpangan Bertingkat di Bandar Baru Nilai, Nilai Interchange, Negeri Sembilan)	Engineer and Project Planning	38 million	PLUS Berhad	1999- 2001
	<b>Responsibility:</b> Project Planning by Microsoft Project, Preparation of QA Documents / Project Quality Plan, Project Quality Manual (PQM), Project Operating Procedures Manual (POPM), Project Inspection & Test Plan Manual (PI&TPM), Project Work Instructions Manual (PWIM)				
<b>d.</b>	<b>Endeavour Consult Sdn. Bhd. (01.06.1998-28.02.1999, (0 year 8 months)</b>				
i.	Site support facilities for XVI Commonwealth game at Bukit Jalil, KL	Resident Engineer	3.5 million	Ministry of sports, Malaysia	1998-1999
<b>e.</b>	<b>Perunding Faisal, Abraham dan Augustine, (01.04.1996-31.05.1998, 2 years 2 months)</b>				
i.	Upgrading of Road B20 as Eastern Access to KL International Airport (KLIA)	Assistant Resident / Resident Engineer	215 million	JKR (Public works department) Malaysia	1996-1998
<b>f.</b>	<b>IJM Corporation Bhd. (01.02.1995-31.03.1996, 1 year 2 months)</b>				
i.	Shah Alam Expressway Package 1A	Engineer	150 million	Gamuda Berhad	1995-1996
ii.	Kuala Lumpur International Airport, Sepang, Package RA 02 (Runway 02). Malaysia.	Project Planning by Artemis (Prism 7000)	215 million	KLIA Berhad	1995-1996
<b>g.</b>	<b>Imej Abadi Sdn. Bhd.</b>				
i.	12 units Mini Condominium at Bukit Damansara, Kuala Lumpur, Malaysia.	Engineer	3.2 million	Private	1994-1995
ii.	Pembinaan Lintasan Keretapi Bertingkat, Package 6 (Bridges & Embankment) at Sungei Besi, Kuala Lumpur, Malaysia.	Engineer	4.5 million	KTM	



<b>h.</b>	<b>Cita Saga Sdn. Bhd.</b>				
	<b>North South Interurban Toll Expressway (PLUS Berhad)</b>				
i.	Package 13B-2 –Sedenak to Kulai	Project Engineer	40 million	PLUS Berhad	1992-1994
ii.	Package 9C – Slim river to Bidoh	Project Engineer	27 million		
iii.	Package 9A –Slim river to Tg. Malim	Project Engineer	32 million		
iv.	Package 9B. – Bidoh to Tapah	Project Engineer	39 million		

<b>Experiences in Bangladesh</b>					
<b>i.</b>	<b>M/S Constart</b>				
i.	Design and supervision of 15km road from Jamalpur to Malandah under RD 13 in the District of Jamalpur	Design Engineer	US\$ 0.250 million	Roads and Highways, Bangladesh	
ii.	Construction of housing projects for Bangladesh Power Development board (PDB) in the District of Thakurgaon	Engineer	US\$ 0.130 million	PDB	
iii.	Construction of housing projects for Bangladesh Power Development board (PDB) in the District of Thakurgaon	Engineer	US\$ 0.330 million	PDB	
<b>j.</b>	<b>A &amp; A Enterprise and The C. E.</b>				
i.	210 MW (3 <sup>rd</sup> unit) Thermal Power Station Extension Project, Ghorasal, Bangladesh as a Project Engineer	Project Engineer	US\$ 200 million	PDB	
<b>k.</b>	<b>Bashirul Haq &amp; Associates</b>				
i.	Ispahani Housing project, Dhaka	Design Engineer	US\$ 10.0 million	Ispahani Limited	
ii.	Housing for Military Engineering Services	Design Engineer	US\$ 4.5 million	Bangladesh Army	

<b>I.</b>	<b>Eastern Boring &amp; Construction Co. Ltd.</b>			
i.	Installation of 450 Nos. 20" & 16" dia. cast-in-situ R.C. Piling Work, for Bangladesh Chemical Industries Corporation, 24 storied building (BCIC, HQ)	Site Engineer	US\$ 0.150 million	BCIC

### PERSONAL INFORMATION

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