

## 2018/2019D GROUP

<b>HIGHWAY &amp; TRANSPORTATION GROUP</b>			
<b>S/No.</b>	<b>Reg. No</b>	<b>Project Title</b>	<b>Supervisor</b>
1.	ENC211-0184/2016	Partial replacement of course aggregates by lateritic gravel pre-treated with lime in concrete production	Mr. Mandela
	EN251-9346/2015		
2.	EN251-9313/2015	Investigating the effects of hibiscus fibre on stone matrix asphalt	Mr. Mungathia
	EN251-9341/2015		
3.	EN251-5692/2014	Performance of polypropylene as an additive in asphalt concrete for road surfacing.	Prof. Abiero
	EN251-5693/2014		
4.	EN 251-5150/2014	Investigating the use of rap blended with sand to improve weak gravel for road base construction	Mr. Mandela
5.	EN251-0578/2014	Stabilization of clay soil using cement bypass dust for road subgrade construction.	Dr. Ambassah
	EN251-0431/2014		
6.	EN251-0420/2014	Investigating effects of hydrated lime treatment on reclaimed aggregates asphalt concrete for low volume roads surfacing	Mr. Mung'athia
	EN251-0427/2014		
7.	ENC211-0188/2016	Improvements of black cotton soil using fibre mesh polymers for low cost roads.	Ms. Mutungi
8.	EN251-0410/2014	Investigating the performance of volcanic pit sand in concrete made from local cement types	Dr. Ambassah
	EN251-5122/2014		
9.	EN251-0408/2014	A redesign of a bottlenecked road section from the A2-C66 intersection to Thika-Mangu flyover, Jomoko	Prof. Abiero
	EN251-2860/2014		
10.	ENC211-0173/2016	To evaluate the performance of sisal- plastic modified model road section.	Mr. Mungathia
	ENC211-0466/2016		
11.	EN251-0411/2014	Study on the Use of Crumb Rubber in Asphalt Concrete.	Mr. J. Karimi
	EN251-2811/2014		
12.	EN251-9339/2015	Stabilization of expansive soils using a mixture of lignosulfonate and molasses.	Mr. Mungathia
	EN251-5855/2014		
13.	EN251-0406/2014	Use of vulcanized molten rubber in asphalt concrete pavement.	Mr. Mungathia
	EN251-0416/2014		
14.	EN251-2865/2014	Performance of modified bitumen binder for surfacing of low volume seal roads	Prof. Abiero
	EN251-9334/2014		
15.	EN 251-0412/2014	Assessing the performance of Ndarugu stone dust as a partial replacement of river sand in masonry mortar	Mr. Mandela
	EN 251-0404/2014		

16.	EN251-0423/2014	Investigating effects of intergrating flexible steel fibres into concrete.	Mr. Mulei
	EN251-0418/2014		
17.	EN 251-5135/2013	Investigating the mechanical properties of 'Qhona' locally found in Rhamu (River Dawa) for use as fibre reinforcement in concrete.	Mr. Mulei
18.	EN251-5254/2014	A Study of the influence of road infrastructure design on road safety for vulnerable road users	Prof. Abiero
	EN251-5128/2014		
<b>STRUCTURE &amp; MATERIALS GROUP</b>			
19.	EN251-9330/2015	Geotechnical investigations of Dam Foundations in Kenya. (Case Study: Proposed Arror Multipurpose Dam in Elgeyo Marakwet County.)	Mr. Odero
	EN251-9324/2015		
20.	EN251-5124/2014	Comparative structural design of a 10 storey hotel using expanded polystyrene and reinforced concrete: Case study; Isiolo Town	Eng. Kioko
	EN251-5096/2015		
21.	EN251-0417/2014	Investigating the effect of replacing wire mesh with papyrus reeds in ferro cement slabs	Eng. Kioko
	EN 251-5102/2014		
22.	EN251-9301/2015	The effect of partially replacing cement with a mixture of maize cob and rice husk ashes in concrete	Eng Kioko
	EN251-9332/2015		
23.	EN251-9335/2015	Investigation on the use of polypropylene fibres as fire resisting admixture in normal concrete.	Mr. Winja
	EN251-9355/2015		
24.	EN251-5148/2014	Investigating the effect of partially replacing sand with a mixture of steel fibres and glass fine aggregates on the properties of concrete.	Eng. Kioko
	EN251-5441/2014		
25.	EN251-2809/2014	Investigating the effect of replacement of river sand with Mai Mahiu sand in concrete production	Prof. (Eng.) Mang'uriu
	EN251-2841/2014		
26.	EN251-5129/2014	Performance of concrete made from partially replaced cement with Macadamia Shell Ash and Coconut Shell Ash	Mr.B. Mutua
	EN251-9387/2015		
27.	EN251-5426/2014	Investigating the effects of graphene nanomaterial on the properties of concrete.	Eng. Kioko
	EN251-2826/2014		
28.	EN251-0424/2014	Effects of glass powder on characteristics of concrete	Mr. Njuki
	EN251-2812/2014		
29.	EN251-9333/2015	Investigation of the improvement of black cotton soil using laterite soil and rice husk ash for sub-base construction.	Mr. B. Mutua
	EN251-9314/2015		
30.	EN251-5422/2014	Investigation of partial replacement of coarse aggregates with shredded waste rubber tyres and burnt waste clay products in light weight concrete.	Mr. Winja
	EN251-5099/2014		
31.	EN251-0414/2014	The effect of Stabilizing black cotton soil using lime and molasses for use as subgrade road material	Mr. B. Mutua
	EN251 -0432/2014		

32.	ENC211-191/2016	Investigation of partial replacement of coconut fibres with waste rubber in cement earth blocks.	Mr. Winja
	EN251-9325/2015		
33.	ENC211-0174/2016	Design of 5 storey car park in Kitui town.	Eng. Kioko
	ENC211-0181/2016		
34.	ENC211-0193/2016	Investigate use of bamboo and recycled aggregate as suitable replacement of steel and coarse aggregate in port land cement concrete.	Mr. Winja
	ENC211-0487/2016		
35.	ENC211-0178/2016	Investigating the effects of super plasticiser on the properties on concrete containing both River Sand and Rock Sands.	Mr. Njuki
	ENC211-0209/2016		
36.	ENC211-0170/2016	Design of an earth fill embankment irrigation dam along Tiva River in Kitui County.	Mr. B. Mutua
	ENC211-0171/2016		
37.	ENC211-0172/2016	Structural Performance of Class M25 Concrete made using Laterite Sand (From Nyabondo Region) As Part of Fine Aggregates	Mr. Njuki
	ENC211-470/2016		
38.	ENC211-0182/2016	Strength properties of concrete made using foundry waste sand and crushed glass as part of fine aggregates.	Mr. B. Mutua
	ENC211-0496/2016		
39.	EN251-2802/2014	Investigating the effects of using Green Banana Peel extract (BPE) as an Admixture in Concrete.	Mr. Winja
	EN251-5101/2014		
40.	EN251-9393/2015	Investigation of the use of bacteria in cement stabilized earth blocks: A case study of Bacillus Megaterium bacteria induced earth blocks.	Mr. Winja
	EN251-9385/2015		
41.	ENC211-0211/2016	The use crushed macadamia nut shells as a partial replacement of fine aggregate in concrete.	Mr. Winja
	ENC211-0495/2016		
42.	EN251-9347/2015	Investigating the mechanical properties of geotextiles on low- strength concrete	Mr. Odero
	EN251-9356/2015		
43.	EN251-5716/2014	Investing the effect of Non-Newtonian Fluid (Oobleck) on the Mechanical Properties of Concrete	Eng. Kioko
44.	EN251-2828/2014	Design and Analysis of a Multipurpose Complex with a Bunker, Isiolo County	Mr. Njuki
	EN251-5443/2014		
45.	EN251-0419/2014	An experimental study on the effects of wheat straw ash as a partial replacement for cement in concrete.	Mr. Odero
	EN251-2866/2014		
46.	EN251-9363/2015	Comparative analysis of precast beam and block flooring system and reinforced slab in construction	Prof. Eng. Mang'uriu
	EN251-9361/2015		
47.	EN251-2858/2014	The redesign of structural components using steel bars from demolished buildings	Mr. Odero
	EN251-2820/2014		
48.	EN251-5259/2014	Analysis of suitability of improved collapsible soils	Prof. Eng.

	EN251-0428/2014	for subgrade and foundation preparation	Mang'uriu
49.	EN251-9338/2015	Experimental investigation on performance of stabilised interlocking lateritic blocks on low rise construction	Mr. Odero
	EN251-9352/2015		
50.	EN251-9317/2015	Investigating the effects of Partial Replacement of Cement with a Mixture of Bone and Coffee Husks Ashes in concrete.	Eng. Kioko
	EN251-9299/2015		
51.	EN251-5449/2014	Investigating the effects of banana fibre ash as a stabilizer for compressed earth blocks	Mr. Odero
	EN251-5104/2014		
52.	EN251-9360/2015	Comparing the use of geogrid and wire mesh in reinforcement of concrete suspended slabs	Mr. Odero
	EN251-9366/2015		
53.	EN 251-5114/2014	Finite element analysis of recycled concrete aggregates used as partial replacement of coarse aggregates in reinforced concrete beams	Mr. Odero
	EN251-2843/2014		
54.	EN251-5445/2014	A study on the effects of waste glass powder on the properties of unfired clay bricks	Mr. Odero
	EN251-0402/2014		
55.	EN 251-2830/2014	To investigate the effects of rice husks ash and egg shell powder in black cotton soil stabilization	Mr. B. Mutua
	EN251-2857/2014		
56.	ENC211-179/2016	To investigate the effect of sisal fibre and steel chippings on the properties of concrete.	Eng. Kioko
	ENC211-180/2016		
57.	EN251-0398/2014	Structural design of a high-rise commercial building to provide office space and car parking area.	Mr. Njuki
	EN251-0407/2014		
58.	EN251-5528/2014	Redesign of existing structures to accommodate change of use (Case study: Swimming Pool Annex,	Mr. Odero
<b>WATER &amp; ENVIRONMENTAL ENGINEERING GROUP</b>			
59.	EN251-9323/2015	Investigation on the engineering properties of Concrete Made of crushed River-Washed Aggregate (Case Study: 'Hajar' Stone Locally found in Wajir County).	Dr. Cheruyoit
	EN251-9306/2015		
60.	EN251-9345/2015	Design of an integrated sanitary land field at Kikuyu sub county.	Mr. Matoke
	EN251-9349/2015		
61.	EN251-5118/2014	Design of a water treatment plant at Madogo Ward, Tana River County	Mr. H. Mutua
	EN251-5106/2014		
62.	EN251-5447/2014	Performance analysis of Kang'oki waste water treatment plant	Mr. H. Mutua
	EN251-2851/2014		
63.	EN251-9353/2015	Comparative Analysis of the Performance of Aloe-	Dr. J. K. Mwangi

	EN251-9326/2015	Vera Gel diluted with distilled water and in sodium chloride solution as Coagulant Aid in turbidity	
64.	EN251-2832/2014	Investigating the effects of sea water intrusion on the coastal aquifer of Mombasa island and Mainland.	Dr. J.K. Mwangi
	EN251-2822/2014		
65.	EN251-0433/2014	Proposed design of a suspension bridge over the Lobo River along C577 Road Baringo County.	Mrs. Ann
	EN251-5427/2014		
66.	EN251-5260/2014	Assessment of the effect of land use on water quality while incorporating GIS: A case study of Thika river.	Dr. J. K. Mwangi
	EN251-5094/2014		
67.	EN251-0430/2014	Defluoridation of water using activated carbon prepared from banana peels and coffee husks as the bio adsorbent (Case Study: Nakuru County)	Dr. Cheruiyot
	EN251-5091/2014		
68.	EN251-0394/2014	Design of an urban water supply system. A case study of Ahero Town in Kisumu County	Dr. Eng Kiptala
	EN251-2852/2014		
69.	EN251-0403/2014	Hydrogeological impact assessment of over abstraction of groundwater in juja	Dr. Eng Kiptala
	EN251-2818/2014		
70.	EN251-304/2015	Comparative analysis on the effect of partial replacement of cement with shredded paper waste powder on the properties of concrete	Dr. Kakoi
	EN251-9310/2015		
71.	EN251-2864/2014	Decentralized wastewater treatment system for rural communities	Dr. Eng Kiptala
72.	EN251- 9348/2015	Assessment of drinking water quality in Urban Piped network in Kenya: A Case Study of Thika Town	Eng. Wangai
	EN251-9337/2015		
73.	EN251-2856/2014	Partial replacement of cement with micro silica in concrete.	Mrs. Ann
	EN251-3783/2012		
74.	EN251-0405/2014	Evaluation of undrained shear strength of cohesive soils using the atterberg limits. A case study of red loam soil in Ruaka, Kiambaa sub-county.	Dr. Cheruyoit
	EN251-0415/2014		
75.	ENC211-185/2016	A case study of ground water quality analysis in pipeline Umoja Kayole Estate.	Mrs. Ann
	ENC211-190/2016		
76.	EN251-9320/2015	Potential of biogas production from human wastewater sludge and water reuse from aerated onsite systems	Eng. Wangai
	EN251-0368/2013		
77.	EN251-3116/2014	Comparative study of the effects of barley straw ash and bean pod ash on the engineering properties of concrete.	Mrs. Ann
	EN251-3128/2014		
78.	EN251-5132/2014	Investigating viable roof water harvesting system to	Dr. Cheruyoit

	EN251-5451/2014	supplement water supply in Nyayo Estate	
79.	EN251-0395/2014	Profile and impact of pollution from Kibera on Nairobi dam.	Eng. Wangai
	EN251-0397/2014		
80.	EN251-5455/2014	Evaluating the components of non-revenue water and their effects on water utilities and their customers: A case study of Thika water and sanitation company	Mr. Matoke
	EN251-2808/2014		
81.	EN251-5138/2014	Stepped Hydraulic Installation for Enhancing the Aeration Capacity in Polluted Rivers. Case Study: Ndarugu River	Eng. Wangai
	EN251-5440/2014		
82.	EN251-1770/2010	Modular design approach for design of a stadium structure	Dr. Cheruyoit