

2016/2017 GROUP

HIGHWAY & TRANSPORTATION GROUP			
S/No.	Reg. No	Project Title	Supervisor
1.	EN251-3122/2014	Stabilization of black soil with burnt clay waste fines mixed with cement for production of building blocks.	Mr. Karimi
	EN251-3119/2014		
2.	EN251-1872/2012	Investigating the causes accidents of along Thika Roads	Eng. Wanyoike
	EN251-3124/2014		
3.	EN251-1867/2012	Comparative analysis of partial use of expanded polyterylene Styrofoam in asphalt concrete	Mr. Mungathia
	EN251-1838/2012		
4.	EN251-10023/2015	Investigating the causes of traffic congestion on A104 (Nairobi-Nakuru Highway)	Mr. Mungathia
	EN251-10003/2015		
5.	EN251-1831/2012	Geosynthetic and fly ash stabilized black cotton soil for pavement subgrade construction	Prof. Gariy
	EN251-4820/2013		
6.	EN251-2990/2012	Use of fired clay waste fines in the improvement of black cotton soil for a road subgrade.	Mr. Karimi
	EN251-0771/2006		
7.	EN251-3712/2012	A study on polystyrene-modified concrete as lightweight wall panels	Mr. Karimi
	EN251-9421/2015		
8.	EN251-0271/2012	Improving subgrade in low volume roads using probase construction technology by stabilization of red coffee soils	Mr. Mungathia
	EN251-1824/2012		
9.	EN251-9428/2015	Investigating the causes of pavement failure on Manyanja Road in Kayole	Eng. Wanyoike
	EN251-3688/2009		
10.	EN251-1823/2012	Investigating the use of crushed clay bricks as aggregates in Asphalt concrete	Eng. Wanyoike
	EN251-1816/2012		
11.	EN251-9419/2015	An investigation on the causes of traffic congestion at Jogoo Road U turn intersection.	Eng. Wanyoike
	EN251-9416/2015		
12.	EN251-9424/2015	A study of traffic congestion along Landhies road.	Prof. Gariy
	EN251-9409/2015		
13.	EN251-1851/2012	Traffic Congestion Study at Thika Road – Eastern By Pass Junction.	Mr. Karimi
	EN251-3110/2014		
14.	EN251-0274/2012	Stabilization of red clay soils using pozzolana for subgrade in road construction; Case Study of Dagoretti	Prof. Gariy
	EN251-0272/2012		
15.	EN251-0280/2012	Investigating the prospect of introducing tidal flow operation between Globe Interchange and Kasarani section of Nairobi- Thika Highway	Eng. Wanyoike
	EN251-3118/2014		
16.	EN251-1846/2012	The study on the effects of Rice Husk Ash (RHA) and Lime as a stabilizer in red coffee soil for a road sub base	Mr. Karimi
	EN251-2989/2012		

17.	EN251-0297/2012	A study of the Congestion and Delays at the RingRoad Kileleshwa, Ring Road Westlands and Riverside Drive Intersection.	Prof. Gariy
	EN251-2993/2012		
18.	EN251-1814/2012	A study on the suitability of zebra crossings and speed bumps on safety and mobility along a highway. A case study along the Thika Superhighway between Ngara and Thika.	Prof. Gariy
	EN251-3718/2012		
19.	EN251-1817/2012	Stabilization stone matrix asphalt using banana fibre	Mr. Mungathia
	EN251-1826/2012		
20.	EN251-0276/2012	A comparative study of single versus double stabilization of black cotton soil as a sub base material.	Eng. Wanyoike
	EN251-0299/2012		

STRUCTURE & MATERIALS GROUP

21.	EN251-3135/2014	Investigation of partial replacement of pit sand with crushed rock dust as fine aggregates in concrete.	Mr. Winja
	EN251-3132/2014		
22.	EN251-3112/2014	Design of highrise building on Weak and unstable Soil: A case study of Palm Valley Project in Kiambu County Paradise Lost Area	Mr. Njuki
	EN251-3524/2014		
23.	EN251-3393/2011	Effect of sand grading on the compressive strength of concrete in building construction.	Mr. Njuki/ Mr. Kiilu
	EN251-5958/2013		
24.	EN251-5247/2014	Investigation of sisal juice as an admixture in concrete made with quarry dust blended with river sand as fine aggregates	Mr. Winja
	EN251-3131/2014		
25.	EN2513125/2014	Investigation on the use of waste pineapple peeling juice as an admixture in concrete	Mr. Winja
	EN251-3121/2014		
26.	EN251-9426/2015	Use of expanded polystyrene concrete as a roofing material	Mr. Njuki
	EN251-3432/2013		
27.	EN251-3129/2014	Investigating the use of murrum as a replacement of sand as a fine aggregate in concrete	Mr. Winja
	EN251-5967/2013		
28.	EN251-1844/2012	Structural analysis and design of a jetty at Mkunguni Port Reitz Mombasa	Mr. Kiilu
	EN251-1830/2012		
29.	EN251-1802/2012	Investigating the effect of using bagasse and fly ashes in stabilizing black cotton soil	Mr. Kiilu
	EN251-1876/2012		
30.	EN251-1866/2012	Comparative design of residential buildings using reinforced concrete frame with masonry infill versus steel frame with light gauge steel infill.	Mr. Njuki
	EN251-1811/2012		
31.	EN251-0282/2012	Structural use of rubber reinforced concrete	Mr. Kiilu
	EN251-1822/2012		
32.	EN251-0279/2012	Effects of waste paper sludge on expansive soils for low	Mr. B. Odero

	EN251-1863/2012	cost constructions	
33.	EN251-1808/2012	Developing an algorithm for structural design using MathCAD	Eng. Kabubo
	EN251-1723/2010		
34.	EN251-0281/2012	A comparative study on the use of Eurocode 3 and BS 5950 in the design of a 5 storey steel building	Mr. Nguru
	EN251-0294/2012		
35.	EN251-0301/2012	Investigating the properties of polypropylene concrete as a roofing material	Mr. Nguru
	EN251-1825/2012		
36.	EN251-0278/2012	Investigating the use of corn cob ash and saw dust ash mixture as partial replacement for cement	Mr. Winja
	EN251-1864/2012		
37.	EN251-1835/2012	Study of use of rice husk ash and molasses in concrete	Eng. Kabubo
	EN251-0291/2012		
38.	EN251-2997/2012	Investigating the potential of using sand blended with plastics to make building blocks	Mr. Winja
	EN251-1836/2012		
39.	EN251-9414/2015	Design of a suspension bridge over KILINDINI Harbour at Mombasa Port.	Mr. Njuki
	EN251-9415/2015		
40.	EN251-0273/2012	Investigating the effects of soil stabilizers on rammed earth walls for low cost housing	Mr. B. Odero
	EN251-1865/2012		
41.	EN251-1805/2012	Comparison between hollow blocks and self-fabricated plastic blocks	Eng. Kabubo
	EN251-1881/2012		
42.	EN251-1837/2012	Design of a ten-storey lightweight composite steel and concrete institutional building.	Mr. Njuki
	EN251-0293/2012		
43.	EN251-1869/2012	Effect of Partial replacement of cement with sugarcane bagasse ash and bamboo leaf ash on the properties of concrete	Mr. B. Odero
	EN251-1879/2012		
44.	EN251-1068/2005	Investigation of effectiveness of performance based contracts (PBC) on road maintenance; Case study: Equator-Sweetwaters - Mirera road in Laikipia.	Mr. Winja
WATER & ENVIRONMENTAL ENGINEERING GROUP			
45.	EN251-1812/2012	Assessing the adequacy of the drainage channel at Kayole Junction to mitigate the problem of flooding and pollution	Dr. J.K. Mwangi
	EN251-1861/2012		
46.	EN251-5973/2013	Assessment of Thika River Pollution Profile	Dr. J.K. Mwangi
	EN251-3127/2014		
47.	EN251-5256/2014	Irrigation scheduling for JKUAT farm to improve water use efficiency and crop yield	Mr. Matoke
	EN251-5740/2014		
48.	EN251-3137/2014	Application of remote sensing to map and estimate water pans storage capacities in arid and semi-arid areas: a case study of isiolo county	Eng. Wangai
	EN251-3115/2014		

49.	EN251-3134/2014	Performance of an on-site waste water treatment in peri-urban areas-alternatives and potential reuse: case study Kitengela area.	Eng. Wangai
	EN251-5244/2014		
50.	EN251-3113/2014	Assessment of waste water disposal at Kenol Town, Murang'a County	Mr. Matoke
	EN251-10026/2015		
51.	EN251-3003/2012	Investigating the suitability of black cotton soil stabilized with cement, quarry dust and rice husk ash as a road sub base	Mr. Brian Mutua
	EN251-0302/2012		
52.	EN251-9425/2015	An investigation of water quality discharged from flower farms into lake Naivasha	Mr. Matoke
	EN251-9410/2015		
53.	EN251-1828/2012	Performance of red clayey soil blended with quarry dust and lime for road sub base material	Mr. Brian Mutua
	EN251-0275/2012		
54.	EN251-9439/2015	Feasibility study on water supply options for water supply and preliminary design for Kanjira village, Homa bay county	Mr. Matoke
	EN251-9437/2015		
55.	EN251-0286/2012	Structural performance of concrete when cement is partially replaced with rice husk ash and fine aggregate partially replaced with quarry dust	Mr. Brian Mutua
	EN251-1809/2012		
56.	EN251-0277/2012	Designing a sports field irrigation and drainage system: A case study of JKUAT	Mr. Mutua
	EN251-0287/2012		
57.	EN251-1828/2012	Investigating the suitability of improving red clayey soil by blending with quarry dust and lime for use as a sub base material	Mr. Brian Mutua
	EN251-0275/2012		
58.	EN251-9440/2015	Impact of incentives and payment schedule on road construction	Eng. Wangai
	EN251-9443/2015		
59.	EN251-1856/2012	Investigating the use of crumb rubber blended with bitumen in modified asphalt concrete.	Mr. Brian Mutua
	EN251-9430/2015		
60.	EN251-5256/2014	Automating irrigation in arid and semi-arid regions for water management.	Mr. Matoke
	EN251-5740/2014		
61.	EN251-0290/2012	Performance analysis of concrete as an alternative to asphalt in road paving in Kenya. A case study of Mbagathi Way	Eng. Wangai
	EN251-1839/2012		
62.	EN251-3429/2013	Investigation of the effect of lime & Cement stabilizers in black cotton soil using two stage stabilization for road construction	Mr. Mulei
	EN251-5245/2014		
63.	EN251-3523/2014	Assessment of water pan quality at Olulung'a Ward: Case Study Narok County.	Mr. Kahsay
	EN251-5248/2014		

64.	EN251-3136/2014	Effects of onsite sanitation disposal to ground water quality in Kawangware	Dr. Cheruiyot
	EN251-3117/2014		
65.	EN251-3130/2014	Case study for assessment of the quality of Nairobi river water and Ruai waste water treatment plant effluent as a source of irrigation water	Mr. Kahsay
	EN251-3120/2014		
66.	EN251-1870/2012	Investigation on the quality of storm water in hotspots along Nairobi river	Dr. Cheruiyot
67.	EN251-9423/2015	Use of plastic reinforcement in pavement construction.	Mr. Mulei
	EN251-9432/2015		
68.	EN251-0298/2012	Development of rating curves based on hydraulic analysis in Upper Tana Catchment	Prof. Mayabi/ Kahsay
	EN251-1843/2012		
69.	EN251-0292/2012	Feasibility of cluster onsite waste water treatment system. Case Study; Juja	Dr. Cheruiyot
	EN251-0295/2012		
70.	EN251-4627/2012	Investigating the cause and effects of traffic congestion at the Argwings Kodhek – Valley Road Intersection.	Mr. Mulei
	EN251-1847/2012		
71.	EN251-0300/2012	Assessment of water supply system of Juja Town	Mr. Kahsay
	EN251-0285/2012		
72.	EN251-1852/2012	Performance of the Eastern bypass in congestion relief. A case study of Nairobi city.	Mr. Mulei
	EN251-1854/2012		
73.	EN251-9408/2015	Stabilisation of road pavement layers using molasses and cement	Mr. Mulei
	EN251-9413/2015		
74.	EN251-3713/2012	Quality assessment of wastewater from manufacturing and processing industries. Case study: Thika industrial area	Ms. Ann Njuguna
	EN251-1810/2012		
75.	EN251-3428/2012	Investigating the suitability of wood ash as a red coffee soil stabilizer on road sub-grade.	Mr. Mulei
	EN251-1877/2012		
76.	EN251-6546/2012	Feasibility study and detailed design of a multipurpose dam for Co-operative University College of Kenya	Mr. Kahsay
	EN251-1819/2012		
77.	EN251-1871/2012	Removal of nutrients in wastewater stabilisation ponds effluent using charcoal (Case Study of JKUAT Sewage Plant)	Mr. G.M. Mwangi
	EN251-1874/2012		
78.	EN251-1868/2012	Improving transport accessibility for the urban poor in Nairobi county.	Mr. Mulei
	EN251-3109/2014		