12 December 2016



Uganda Humanist Schools Trust

# Multimedia Block and Large-group Teaching Project

Isaac Newton High School, Kateera, Masaka

December 2016



Senior one students at Isaac Newton High School in lesson without pictures

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# **Building work**

The project involves the construction of a large building comprising:

3 classrooms – each furnished to seat 55 students

1 science lab – fully equipped and furnished, with adjoining prep room.

1 teachers' preparation and development room, with adjoining store room

The building will have an insulated ceiling to prevent lessons being disrupted by the frequent heavy rain storms.

All rooms will be glazed to keep out rain and driving winds from Lake Victoria. The building will be secured to prevent theft by having bars on windows and metal security doors.

The rooms will be well lit and cabled to provide power sockets in each room.

Each room will be equipped with ceiling mounted data projector, HDMI cables, microphones and speakers. Laptop computers will be bought for each department to enable teachers to prepare materials for class. The teachers' room will have internet access to allow teachers to conduct research for lessons and to download pictures, videos and other lesson materials.

# **Professional Development**

UHST will use expertise among our trustees to organise a training programme to enable teachers to make effective use of multimedia and internet-sourced resources in their teaching with large groups of students (50+). Among UHST Trustees we have a technical IT specialist, a science curriculum developer, a teacher education specialist and former Director of the ELATE Africa (E-Learning and Teacher Education) Programme (based at Makerere University School of Education and funded by the British Council, a professor emeritus in Biological sciences who is experienced in developing sophisticated PowerPoint animations and a Mathematics teacher and teacher trainer. Three of these trustees have already run courses in the school for teachers and students.

We will also draw in expertise from within the school and from other schools and colleges in Uganda, including the NGO Uganda Connect (U-Connect). Teachers have already been trained in the use of the ICT resources of the ELATE Project, on the use of the RACHEL repository and Khan Academy Science and Mathematics Videos and the use of e-books from the Guttenberg collection. In addition they will learn to make effective use of the Office Suite and, in particular, Powerpoint and how to integrate web-based resources, such as YouTube videos and images found on Google, into their lessons.

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The training programme will be extended to teachers from other member schools of Uganda Humanist Schools Association – in collaboration with the Brighter Brains Institute of California. This will happen through an extended second national conference for teachers in Humanist Schools in January 2018, and such other workshops as are necessary.

## **Construction Costs**

#### Bills of Quantities: MULTIMEDIA BLOCK

ISAAC NEWTON HIGH SCHOOL

DESCRIPTION		
SUMMARY OF BILL	Ug Sh	£
ELEMENT NO.1: SUBSTRUCTURE	17,056,900	£3,790
ELEMENT NO.2: BUILDING FRAME	6,326,320.00	£1,406
ELEMENT NO.3 WALLS	9,059,960.00	£2,013
ELEMENT NO.4: ROOF STRUCTURE	4,499,040.00	£1,000
ELEMENT NO.5: WINDOWS	11,928,800	£2,651
ELEMENT NO.6: DOORS	14,841,200	£3,298
ELEMENT NO.7: MECHANICAL INSTALLATIONS	25,004,400.00	£5,557
ELEMENT NO.8: FLOOR FINISHES	2,089,360.00	£464
ELEMENT NO.9: WALL FINISHES	6,773,900.00	£1,505
ELEMENT NO.10: ROOF FINISHES	17,645,600.00	£3,921
ELEMENT NO.11: LIGHTNING PROTECTION	6,968,000	£1,548
ELEMENT NO.12: FIXTURES	18,959,200	£4,213
ELEMENT No.13: ELECTRICAL INSTALLATIONS	10,462,500	£2,325
ELEMENT NO.14: FLOWER GARDENS AND TREES	3,752,000	£834
ELEMENT NO.15: WATER HARVESTING	7,840,000	£1,742
TOTAL BILL	163,207,180	£36,268

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## Multimedia Equipment

Microphones, speakers, data projectors, laptops

Initial budget (based on used of reconditioned laptops from U-Connect)

The system will be extended later

## **Professional Development Programme**

Training will be provided by Trustees from UHST who will meet their own travel and subsistence expenses for visits to and stays in Uganda. (Approx. trustees contribution £3,000)

TOTAL PROJECT COSTS	£42,268
Costs for participants from other UHSA schools (after contribution from the Brighter Brains Institute)	£2,000
Susbsistence and facilitation expenses for teachers undergoing training from Isaac Newton High School	£1,000

# Schedule of payments (Funds will be sent by UHST in 5 staged payments)

Site preparation, foundations and lower walls	£12,268
Upper walls and roof	£12,000
Windows, doors, electrics and inside & exterior finishing	£12,000
Multimedia equipment	£3,000
Professional Development Programme	£3,000

£ 3,000

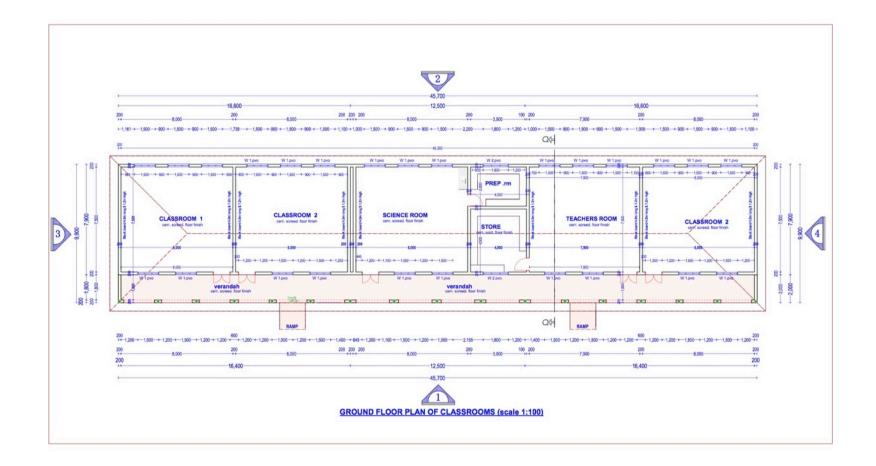
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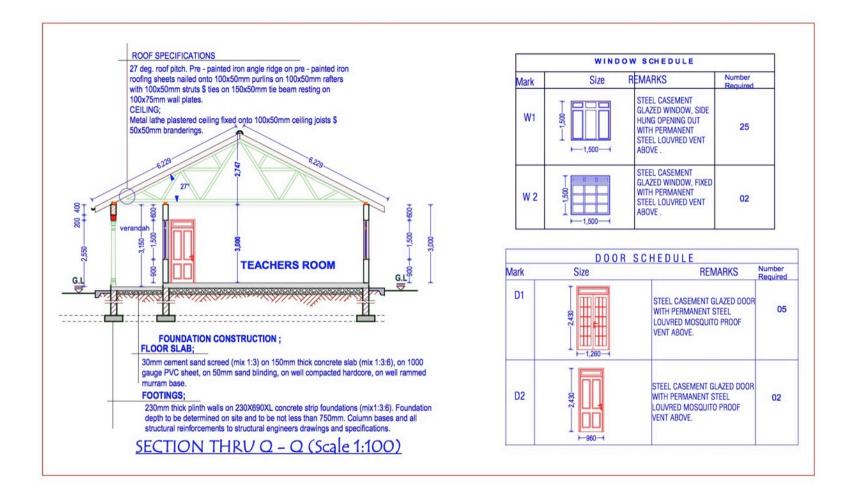
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Isaac Newton High School: Drawing of Multimedia Block



#### Isaac Newton High School: Plan of Multimedia Block



Isaac Newton High School: Specifications for Multimedia Block