



**Professional Audio, Visual and Acoustic Solutions**

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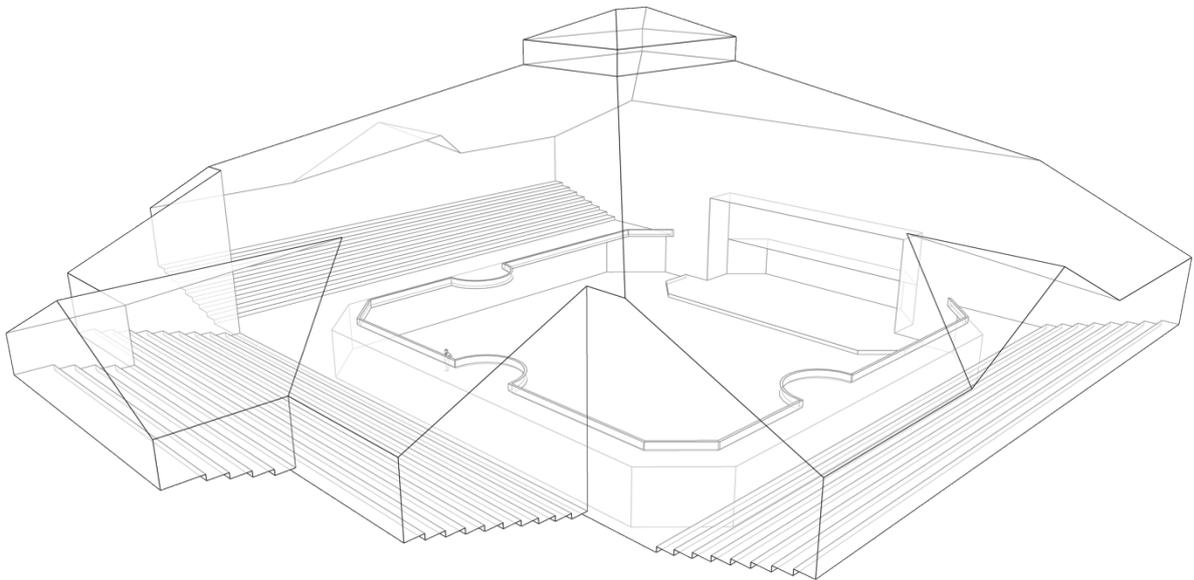
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*If it sounds good, it's Sound Creations!*

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## ARCHITECTURAL ACOUSTICS PROFILE



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Prepared by:

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## BACKGROUND INFORMATION

### Introduction

SOUND CREATIONS LIMITED is an audio, visual and acoustic solution company founded in 2004 to offer professional audio and visual solutions in Kenya and East Africa at large. In 2014 Sound Creations Ltd. ventured into acoustical solutions to be one of the first companies in Kenya to provide acoustic solutions. The company has a dossier of offering quality audio-visual and acoustical solutions to houses of worship, entertainment places, institutions, corporates, live sound & event companies, music production and broadcasting studio, among many others.

The company has on-board well qualified and talented work force to aid in execution of her mission and attainment of her vision. The talent behind the company's accomplishments comprises of architects, audio-visual consultants, freelance engineers, integrators, and technical support specialists. Sound Creations Ltd. has also received immense support from her mother company; Salute Holdings, and it continues to work closely with her sister companies.

### Services

#### Acoustic Design and Consulting

In partnership with architects and architectural firms, we can provide innovative solutions and procedures towards creating excellence in acoustic and electroacoustic design and installation. We always look forward to participate in the collaborative design process.

#### Acoustic Testing and Measurement

Using advance acoustic testing and measurement equipment, Sound Creations' consultants can evaluate and analyze different spaces to develop acoustic criteria as well as evaluate their achievement with utmost accuracy.

#### Internal Room Acoustics and Surface Treatments

Critical listening spaces such as auditoria, churches, studios, theatres, conference rooms, home theaters and all speech intelligibility sensitive spaces benefit from accurate acoustic design. We provide appropriate surface treatments to enhance the audio experience in these spaces.

#### Sound Isolation

Sound Creations provides acoustical measurement, analysis and design services to assure optimal acoustical isolation of existing or new construction.



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**Commercial and Performance Audio/Visual Systems Design and Integration**

Sound Creations provides technology integration design services for commercial and performance spaces. Using some of the world-renowned brands, that we distribute.

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## KEY PERSONNEL

### **Nipul B. Shah**

#### **Managing Director**

NIPUL SHAH is the Managing Director and founder of Sound Creations Limited in partnership with his co-directors; Zahir Manji & Vivek Mehra who also share his passion for audio. He graduated from Digital Academy in Mumbai in 2004 having successfully completed studies in Sound Engineering. For over fifteen years, Nipul has been distributing and integrating sound equipment from renowned international brands with a vision to provide the latest technologies in Kenya and the East African region. He recently developed special interest in the larger science of architectural acoustics after learning of its pivotal role in the audio industry. As a result, he pursued studies in Sound Reinforcement for Designers which earned him certification from Synergic Audio in 2014.

### **Robert J. Otieno**

#### **Architect | Architectural Acoustician**

Graduate from the University of Nairobi with Bachelor in Architectural studies and Bachelor of Architecture degrees. He specializes in acoustic design and consultancy, acoustical testing and measurement, sound insulation, room acoustics, surface treatments and sound system design. At Sound Creations he has been involved in developing acoustic solutions for different applications such as churches, performance halls, auditoria, multi-purpose halls, recording studios and home cinemas among many others. Robert heads our Architectural acoustics division.

### **Shaleen C. Ng'etich**

#### **Architectural Assistant**

Currently finalizing her degree in Architecture, she has recently joined the Sound Creations Ltd. team under Architectural Acoustics department. She has offered great assistance in the design face of projects in project drawings and assisting in project management under Project Manager.

### **Rutherford U. Lodenyo (Mike)**

#### **Audiovisual and Lighting Systems Engineer**

Sound and lighting engineer with a strong base in system design, installation and audio mixing. He has successfully handled a great number of projects on audio visual and lighting under Sound Creations Ltd and audio mixing at different establishments and events. He has also undergone several trainings and certifications in speakers, microphones and audio mixing software.

## **Roman K. Changawa**

### **Construction**

Engaged under contractors for Sound Creations Ltd, Roman is the director of Blue Light company which has been involved in most of Sound creations projects that require construction works. Fulfilling all state and professional requirements, all projects have earned a great review and recommendation from quality, adherence to timelines and workplans as well as workers professionalism.

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## ARCHITECTURAL ACOUSTIC SERVICES

### Introduction

At Sound Creations, we understand how people respond to various acoustic environments. This understanding has enabled us to apply acoustical science to buildings and successfully delivered results. Acoustical success is based on both objective and subjective measures, in this regard, we apply good acoustical analysis and design in collaboration with the entire project team to maximize client satisfaction.

We use sophisticated software and equipment such as real-time analyzers to measure, store and analyze acoustical parameters. This information is then communicated in the most appropriate format to the client and other consultants, when required.

Sometimes a space may require electroacoustic enhancement as the only architectural acoustic solution. When this is needed, Sound Creations can describe and provide the necessary enhancement required, having been in the electroacoustic enhancement business for almost 15 years.

### Process

The scope of acoustical services is normally determined by whether a project is design only or comprehensive services from initial design through construction administration. However, the process remains the same.

#### Step 01: Inception

At this stage we undertake a comprehensive acoustic survey to establish the existing acoustic environment and detect the acoustic defects in the space. This may involve the use of equipment for measuring and analyzing sound and sometimes interviews with key user groups.

Thereafter some acoustical criteria for the space is established. The acoustical criteria will detail the optimum acoustic environment required, this may include: the sound isolation requirements, the noise criterion (NC) and the reverberation time (RT60). After the acoustical criteria for the space has been established and the quality of the sound as it relates to the budget has been determined. This will be presented in the form of an acoustic report presented in both hard and soft copy formats.

An assessment of facility audio system needs is also undertaken, through interviews or a survey of existing equipment (if applicable). If the end user is not yet available, we will develop an audio system description and budget based on expected experience and requirements for each space.

#### Step 02: Schematic Design.

In the schematic design phase, recommendations for achieving the acoustical criteria are provided in broad terms. For example, information about the following may be specified: volumes of spaces; dimensions; location of spaces and their adjacencies; structural concerns; mechanical equipment locations

and guidelines; and a brief outline of major partition types, special floor or ceiling assemblies, area requirements for variable acoustic elements etc.

Electroacoustic design services during schematic design usually include a schematic audio systems description and an installed-systems cost estimate for various options.

A schematic design acoustical report prepared at this point for project team members. This document can become the basis for further acoustical design development. Although it is impossible to foresee all potential problems in advance, we can identify and document most of the issues early in the process.

### **Step 03: Design development.**

Deliverables at this stage include partition details, penetration details, and sketches for acoustic doors, windows, and floating floors. Room finish options are also developed. Mechanical duct and pipe sizing and distribution are discussed. Preliminary location and sizes of speakers and adjustable acoustic systems and layouts of orchestra enclosures or shells are shown on drawings.

### **Step 04: Construction documentation.**

Construction document services usually include many reviews of drawings and specifications to ensure that the acoustical recommendations have been incorporated correctly. We provide our recommendations in the form of sketches, drawings, reports, memorandums, letters, meetings, and so on for the architect and engineers to incorporate into the documents.

### **Step 05: Construction administration**

After the relevant contractor has been identified and contracted, the construction administration phase commences. Site visits for inspections are necessary to help contractors understand how the construction details coordinate with the proper acoustics product. Most contractors are less experienced in buildings for which acoustics are of major concern, so it is important to communicate to them why in acoustically critical projects some of the details are complex and what can go wrong if the designs are not properly implemented.

### **Step 06: Post Construction**

Acoustical services can and often must be part of building commissioning services. This usually involves verifying acoustical criteria and establishing the initial setting of adjustable acoustic systems. Where adjustable acoustic systems have been employed, post construction services may involve tuning to achieve the proper acoustical balance. For performance spaces, our consultant must work with performance groups in rehearsal to determine the most agreeable settings. In addition, the consultant may have to train users in the use of the audio systems or adjustable acoustic systems.

Process Summary

<p>Step 01: Inception</p> <p>Discovering Client's needs</p>	<p>Conducting a comprehensive acoustic survey, sometimes interviews with key user groups is included.</p> <p>Conducting acoustic measurements, if required.</p> <p>Determining the usage of the spaces – single or multiple.</p> <p>Determining the number of seats</p> <p>Identifying the audio system needs</p> <p>Developing some acoustic criteria for the space, detailing: Noise Criterion (NC) Reverberation time (RT60/RT30/RT20) Sound isolation requirements Adjustable acoustics? Orchestra shell?</p>			
<p>Step 02: Schematic Design</p> <p><i>Establishing a design direction</i></p>	<p>ROOM ACOUSTICS</p>	<p>SOUND ISOLATION</p>	<p>NOISE &amp; VIBRATION CONTROL</p>	<p>AUDIO-VISUAL SYSTEMS</p>
<p>Determine volume and dimensions.</p>	<p>Identify acoustic doors, windows, floating floors, sound control ceilings.</p>	<p>Identify mechanical equipment locations.</p>	<p>Develop preliminary audio systems description.</p>	
<p>Determine room locations and adjacencies.</p>	<p>Provide outline of partitions, floors, and ceilings.</p>	<p>Provide noise and vibration control guidelines.</p>	<p>Establish budget for audio systems.</p>	
<p>Determine amount of adjustable acoustic material</p>	<p>Determine the structural system and acoustical requirements (acoustic joints?)</p>			
<p>Broad discussion of room finishes</p>				
<p>Step 03: Design Development</p> <p><i>Developing the design</i></p>	<p>ROOM ACOUSTICS</p>	<p>SOUND ISOLATION</p>	<p>NOISE &amp; VIBRATION CONTROL</p>	<p>AUDIO-VISUAL SYSTEMS</p>
<p>Determine adjustable acoustic material and locations</p>	<p>Provide partition details</p>	<p>Review mechanical duct and pipe distribution and sizes</p>	<p>Provide preliminary locations and sizes of audio system speakers</p>	
<p>Discuss room finish options.</p>	<p>Provide acoustic door, window, floating floor, and ceiling details</p>	<p>Provide penetration details</p>	<p>Refine audio systems budget.</p>	
<p>Provide layouts for orchestra shell and risers</p>	<p>Provide intersection details.</p>			

Step 04: Construction Documents	ROOM ACOUSTICS	SOUND ISOLATION	NOISE & VIBRATION CONTROL	AUDIO-VISUAL SYSTEMS
<i>Detailing the design</i>	Provide guideline specifications for acoustic materials and constructions	Provide guideline specifications for acoustic materials and constructions	Perform acoustical calculations and provide recommendations for acoustical treatments.	Prepare audio systems bid documents (drawings and specifications)
	Review theatre consultant's documents.	Review structural engineer's documents.	Review mechanical engineer's documents.	Review bids.
	Review architect's documents.			
Step 05: Construction Administration	ROOM ACOUSTICS	SOUND ISOLATION	NOISE & VIBRATION CONTROL	AUDIO-VISUAL SYSTEMS
<i>Implementing the design</i>	Prepare submittal review list	Prepare submittal review list.	Prepare submittal review list.	Monitor audio contractor's progress.
	Review submittals and shop drawings of acoustic materials.	Review submittals and shop drawings of acoustic materials and construction.	Review submittals and shop drawings.	Perform site inspections and prepare punch lists
	Perform site inspections and prepare punch lists.	Perform site inspections and prepare punch lists.	Perform site inspections and prepare punch lists.	
Step 06: Post-Construction	ROOM ACOUSTICS	SOUND ISOLATION	NOISE & VIBRATION CONTROL	
<i>Tweaking the design</i>	Tune adjustable acoustic systems for each program use	Measure sound isolation for conformance to criteria	Measure background sound levels for conformance to criteria	Ensure proper tuning of the audio system and verify speaker aim and positioning, settings, and controls
	Set the orchestra shell for each program use	Make recommendations, if necessary, to resolve problems	Make recommendations if necessary to resolve problems	
	Measure RT60 and other architectural acoustical parameters			Ensure the training of system users

## PROJECT PORTFOLIO

	PROJECT	LOCATION	SERVICES	PERSONNEL	DATES	CONTACT
1	<b>PCEA Thamanda Main Church Sanctuary (1000 Pax)</b>	Kikuyu, Kiambu County, Kenya	Acoustic treatment design & implementation	<b>Robert</b> (Design 100%), <b>Roman</b> (implementation 60%)	Sep.'19 to Oct. '19	Samuel Njau <a href="mailto:samuel.njau@gmail.com">samuel.njau@gmail.com</a> [CLIENT]
					<b>VALUE:</b>	<b>KES. 5,800,000.00</b>
2	<b>Adventist University of Africa (AUA) Main Hall (2,000 Pax) and Mini- Auditorium (100Pax)</b>	Rongai, Kajiado County, Kenya	Acoustic treatment design & implementation	<b>Robert</b> (Design 25%), <b>Roman</b> (Implementation 75%)	Dec. '18 to Nov. '19	Arch. Charles Misiani <a href="mailto:acheraarch@gmail.com">acheraarch@gmail.com</a> [PROJECT ARCHITECT]
					<b>VALUE:</b>	<b>KES. 8,900,000.00</b>
3	<b>PCEA Evergreen Church New Sanctuary (2,000 Pax)</b>	Runda, Nairobi County, Kenya	Acoustic design & Consultation, Performance Audio/Visual & Lighting Systems Infrastructure Design	<b>Robert</b> (Acoustics Design 70%), <b>Mike</b> (Audiovisual and lighting Systems Design 30%)	Mar. '19 to present	Arch. Githaiga Mwangi <a href="mailto:githaiga@verv.co.ke">githaiga@verv.co.ke</a> [PROJECT ARCHITECT]
					<b>VALUE:</b>	<b>KES. 475,000.00</b>
4	<b>Anjarwalla &amp; Khanna – Africa Legal Network Auditorium (150 Pax) and Banquet Hall (300 Pax)</b>	Westlands, Nairobi County, Kenya.	Acoustic design & Consultation, Post-construction acoustic testing, Audio/Visual & Lighting System Design, Supply and installation	<b>Robert</b> (Acoustic design 50%), <b>Mike</b> (Audiovisual and Lighting Systems Design & Implementation 50%)	Feb '19 to present	Catherine Maina <a href="mailto:Catherine.Maina@mmltt.com">Catherine.Maina@mmltt.com</a> [PROJECT MANAGER]
					<b>VALUE:</b>	<b>KES. 7,450,000.00</b>
5	<b>Tanzania Assemblies of God, Bethel Christian Centre (800 Pax)</b>	Kijenge, Arusha, Tanzania	Internal room acoustics, Surface treatment design	<b>Robert</b> (Design 40%), <b>Roman</b> (implementation 60%)	Jan. 19 to present	Joshua Sengeo <a href="mailto:joshuasengeo@icloud.com">joshuasengeo@icloud.com</a> [CLIENT]
					<b>VALUE:</b>	<b>KES. 5,800,000.00</b>

6	<b>Karura Community Chapel new sanctuary (2,500 Pax), Youth Hall (800 Pax) and Teens Church (800 Pax)</b>	Karura, Nairobi County, Kenya.	Acoustic design & Consultation, Post-construction acoustic testing, Acoustic design & Consultation, Performance Audio/Visual & Lighting Systems Infrastructure Design & Integration	<b>Robert</b> (Acoustics Design 60%), <b>Mike</b> (Audiovisual and lighting Systems Design 40%)	Dec '18 to present	Dennis Kutto <a href="mailto:kutto@krm.co.ke">kutto@krm.co.ke</a> [PROJECT MANAGERS]	<b>VALUE:</b> <b>KES. 800,000.00</b>
7	<b>St. Joseph's Apostle Catholic Church Hall (700 Pax)</b>	Moshono, Arusha, Tanzania	Acoustics testing & measurement, Acoustic treatment design & implementation	<b>Robert</b> (Design 40%), <b>Roman</b> (implementation 60%)	Jan. '18 to Mar. '18	FR. CYRIL IMOHILOSEN <a href="mailto:cyimochurro@yahoo.com">cyimochurro@yahoo.com</a> [CLIENT]	<b>VALUE:</b> <b>KES. 6,712,500.00</b>
8	<b>Sarit Centre Expansion Proposed Phase III Exhibition hall (7,000 Pax) and meeting rooms (500 Pax)</b>	Westlands, Nairobi county, Kenya.	Acoustic design review & optimization, Acoustic material specification, value engineering & construction supervision, Post-construction acoustic testing & commissioning, Audio/Visual Systems	<b>Robert</b> (Design 100%)	Sep. '17 to present	SARIT SHAH <a href="mailto:sarit@tbc.co.ke">sarit@tbc.co.ke</a> [CLIENT]	<b>VALUE:</b> <b>KES. 35,000,000.00</b>
9	<b>KAG Umoja Church Hall (700 Pax)</b>	Umoja, Nairobi County, Kenya	Architectural design Architectural Acoustic Design	<b>Robert</b> (Design 100%)	Nov. '17 to present	SIMON MUHUKO <a href="mailto:muhuko@yahoo.com">muhuko@yahoo.com</a> [CLIENT]	<b>VALUE:</b> <b>KES. 360,000.00</b>
10	<b>Aga Khan Academy Amphitheatre (500 Pax)</b>	Mombasa County, Kenya	Sound System components and infrastructure design, supply & implementation	<b>Robert</b> (Design 40%), <b>Mike</b> (Design & Implementation 60%)	Nov. '17 to Mar. '18	DAMODARAN, ARUN <a href="mailto:arun.damodaran@agakhanacademies.org">arun.damodaran@agakhanacademies.org</a> [PROJECT MANAGER]	<b>VALUE:</b> <b>KES. 2,700,000.00</b>

11	<b>PCEA Gateway Church Hall (1,500 Pax)</b>	Thome, Nairobi County, Kenya	Acoustics testing & measurement, Acoustic treatment design & implementation; Sound System design, supply & implementation	<b>Robert</b> (Acoustic design 30%), <b>Roman</b> (Acoustic design implementation 30%), <b>Mike</b> (Audiovisual and Lighting Systems Design & Implementation 40%)	Aug. '17 to Nov. '17	PCEA GATEWAY CHURCH <a href="mailto:pceagateway@gmail.com">pceagateway@gmail.com</a> [CLIENT]	<b>VALUE: KES. 12,125,000.00</b>
12	<b>AIC Langata Church Hall (1,200 Pax)</b>	Langata, Nairobi County, Kenya.	Acoustics testing & measurement, Acoustic treatment design & implementation; Sound System design, supply & implementation	<b>Robert</b> (Acoustic design 30%), <b>Roman</b> (Acoustic design implementation 30%), <b>Mike</b> (Audiovisual and Lighting Systems Design & Implementation 40%)	Oct. '17 to Dec. '17	AIC LANGATA <a href="mailto:aiclangata@gmail.com">aiclangata@gmail.com</a> [CLIENT]	<b>VALUE: KES. 8,355,000.00</b>
13	<b>PCEA Nyahururu Church Hall (700 Pax)</b>	Nyahururu, Kenya	Acoustics testing & measurement, Acoustic treatment design & implementation.	<b>Robert</b> (Design 40%), <b>Roman</b> (implementation 60%)	Mar. '17 to Apr. '17	MR. WACHIRA <a href="mailto:jmlwachira60@gmail.com">jmlwachira60@gmail.com</a> [CLIENT]	<b>VALUE: KES. 3,710,000.00</b>
14	<b>PCEA Chuka Town Church (1,000 Pax)</b>	Chuka, Kenya	Acoustics testing & measurement, Acoustic treatment design & implementation.	<b>Robert</b> (Design 40%), <b>Roman</b> (implementation 60%)	Aug. '16 to Sep. '16	KIRIMI HENRY <a href="mailto:h.kirimi@yahoo.com">h.kirimi@yahoo.com</a> [CLIENT]	<b>VALUE: KES. 3,800,000.00</b>
15	<b>RGC Liberty Christian Centre (1,500 Pax)</b>	Plainsveiw Rd. South B, Nairobi, Kenya	Acoustics testing & measurement, Acoustic treatment design & implementation; Performance Stage design; Sound System design, supply & implementation	<b>Robert</b> (Acoustic design 30%), <b>Roman</b> (Acoustic design implementation 30%), <b>Mike</b> (Audiovisual and Lighting Systems Design & Implementation 40%)	Sep. '16 to Nov. '16	KEPHA N. OMAE <a href="mailto:omae@nbnet.co.ke">omae@nbnet.co.ke</a> [CLIENT]	<b>VALUE: KES. 5,170,000.00</b>

16	<b>Oshwal Community Centre Halls (5,000 Pax)</b>	Westlands, Nairobi, Kenya	Acoustics testing & measurement, Acoustic treatment design & implementation	<b>Robert</b> (Design 40%), <b>Roman</b> (implementation 60%)	Jan. '16 to Mar. '16	VISA OSHWAL COMMUNITY <a href="mailto:admin@oshwalnairobi.org">admin@oshwalnairobi.org</a> [CLIENT]	<b>VALUE: KES. 5,000,000.00</b>
17	<b>Oshwal Academy Nairobi Senior High Examination Hall (500 Pax)</b>	Parklands, Nairobi, Kenya.	Acoustics testing & measurement, Acoustic treatment design & implementation; Performance Stage design; Sound System design, supply & implementation	<b>Robert</b> (Acoustic design 30%), <b>Roman</b> (Acoustic design implementation 30%), <b>Mike</b> (Audiovisual and Lighting Systems Design & Implementation 40%)	Aug. '15 to Oct. '15	ROSEMARY NGERE <a href="mailto:rosemary.ngere@oshwalacademy.sc.ke">rosemary.ngere@oshwalacademy.sc.ke</a> [CLIENT]	<b>VALUE: KES. 2,850,000.00</b>
18	<b>Kenyatta University Amphitheatre (1,000 Pax)</b>	Kahawa, Nairobi, Kenya	Acoustics testing & measurement, Acoustic design and supply of materials	<b>Robert</b> (Design 100%)	Jun. '15 to Jul. '15	BANEY MULTIMEDIA <a href="mailto:gearxsystems@gmail.com">gearxsystems@gmail.com</a> [MAIN CONTRACTOR]	<b>VALUE: KES. 4,000,000.00</b>
19	<b>Lavington SDA Church Hall (1,500 Pax)</b>	Vanga Rd, Lavington, Nairobi, Kenya	Acoustics testing & measurement, Acoustic treatment design & implementation	<b>Robert</b> (Design 40%), <b>Roman</b> (implementation 60%)	Mar. '15- Aug '15	GEORGE KIDENDA <a href="mailto:george.kidenda@freightlogix-kenya.com">george.kidenda@freightlogix-kenya.com</a> [CLIENT]	<b>VALUE: KES. 5,445,000.00</b>
20	<b>Tumaini University Makumira Assembly hall (2,500 Pax)</b>	Makumira, Arusha, Tanzania	Audio-Visual, staging & stage lighting supply and installation; Acoustics measurement & Testing Acoustic treatment design & implementation.	<b>Robert</b> (Design 40%), <b>Roman</b> (implementation 60%)	Mar. '15 to Oct. '15	RANDY STUBBS <a href="mailto:manager@cac.makumira.ac.tz">manager@cac.makumira.ac.tz</a> [CLIENT]	<b>VALUE: KES. 20,000,000.00</b>