

**SCI-BONO DISCOVERY CENTRE NPC**

Tel: +27 11 639 8400 | Fax: +27 11 832 3360 | www.sci-bono.co.za  
C/o Miriam Makeba & Helen Joseph Streets | Newtown | Johannesburg  
PO Box 61882 | Marshalltown | 2107

Company registration: 2004/010183/08 | VAT no: 473 021 6290  
PBO reference no: 930 014 449 | NPO Registration: 056-334-NPO

## **Procurement of Erection of a multimedia and broadcasting studio**

### **Annexure A:**

### **Equipment, installation, and after-sales customer support and services for 5 years**

#### **IP - 4 HD Camera Studio**

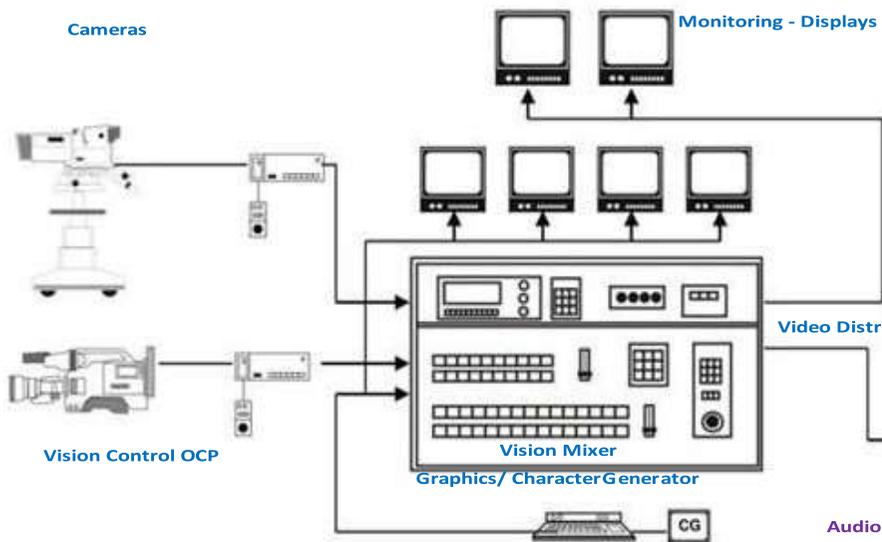
<b>NO</b>	<b>Item</b>	<b>Description</b>	<b>Quantity</b>
	Camera System	Studio Robotic and Roving Cameras	
	Pedestals	Studio Peds	
	Prompters	Studio Set-Up	
	Video	IP Router and Multiviewer, Video Switcher	
	Graphic Virtual	Virtual Studio Capability	
	Audio	Hi-End Audio Console	
	Communication	IP and Wireless Comms	
	Lighting	LED Lighting Solution	
	Playout and Post Production	Playout -Stream/Craft Editing Solution	
	Reference Distribution	Ancillaries	
	Vision	Ancillaries	
	Network	IP Network Backbone	
	Technical Furniture	Ergonomics	
	Installation	Professional Integration	
	Construction	Studio Estate Upgrade (Wall Dense Noise Barrier	

#### **BOARD OF DIRECTORS**

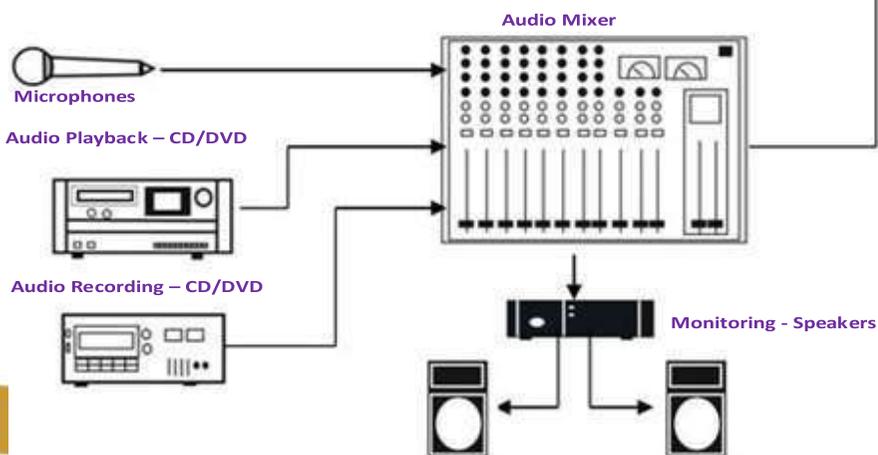
Abbey Witbooi (Chairperson) | Nandipha Madiba (Deputy) | Prof. Bongani Bantwini  
Zeth Malele | Patricia Maloka | Adv. Lentswe Mokgatle | Dr. Vathiswa Papu-Zamxaka  
Prof. Khulekani Sitole | Godfrey Tsotetsi | Mashane Mphahlele | Dr. More Chakane (CEO)

## Studio Production Equipment Block Diagram

### VIDEO FLOW



### AUDIO FLOW

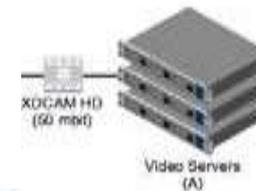
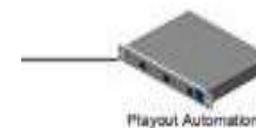


STUDIO OUTPUT

Video/Audio Ingest/Recording

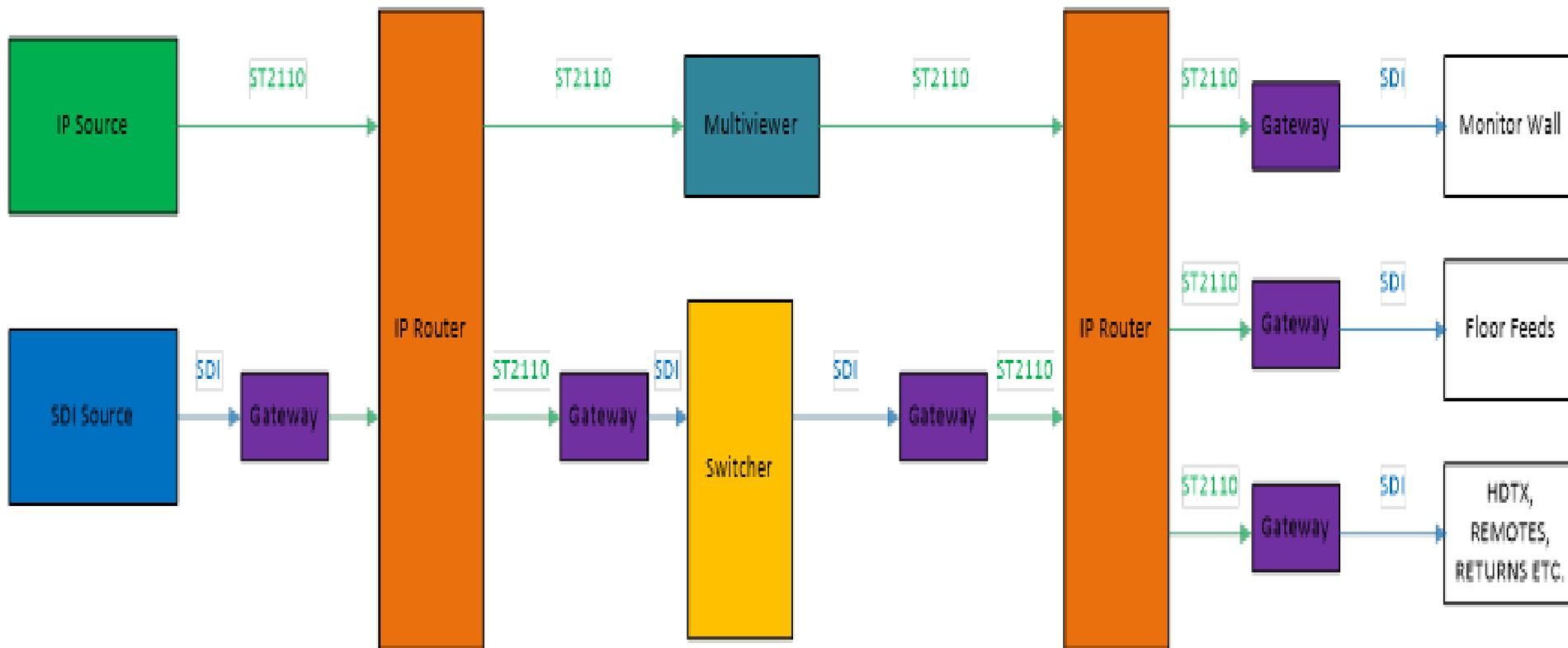
Video/Audio Playback/Edit

Playout/Ingest System



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## IP ROUTER Infrastructure



### Solution consists of:

- IP Router (32 x32) for the above utilizing the ST2110 standard including gateways, COTS (switches), orchestration/management (VSM), multi-viewers (32 x8).

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### Annexure C:

Supply, installation, and Maintenance of Video Conferencing Studio Equipment in GDE Schools, including after-sales customer support and services:

- 1 Classroom per School (440 Schools)
- Equipment must allow for beaming from the school to the studio and vice versa
- All original operating instructions, manuals and warranties for the equipment and software.
- Installation and testing procedures,
- 

Service providers are to provide solution

Items to be supplied and installed in the classrooms:

NO:	Item	Quantity
1		
2		
3		
4		
5		
6		
7		

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### Annexure D:

#### Develop and Supply interactive E-Learning Content (reviewed on a yearly bases for 5 years, with an option to extend)

- For Teachers (from ECD to Grade 12) linked to CAPS, all subjects
- For Learners (From ECD to Grade 12) linked to CAPS (including revision and exam preparations), all subjects
- Coding and Robotics
- Drones
- Supplementing the standard school program.
- Assisting school teachers
- TV classes touching upon all subjects for grades 1 to 12 of the curriculum
- Virtual classes for advanced study of particular subjects
- Extracurricular subjects
- On-air interactive classes and up-to-date multimedia technologies in education
- Series of programs aimed at preparation for school, graduation final examinations and university entrance examinations
- Broadcasting in local language
- Operation procedures.
- Training material.

#### Details

1. Provide educational content, which is an engaging and probing package of audit-visual content, simulations (manipulatives) and question backs
2. Content should be interactive and be limited to a minimum of 30 minutes per session
3. Should be in English Language and Sign Language and All audit voiceovers must be in authentic South African English accents; Foreign accents are not acceptable
4. Should be completely aligned to the Curriculum and Assessment Policy Statement (CAPS) documents of the National Curriculum Statement Grades R-12
5. The content should cover all points and examples mentioned in the CAPS documents under "Content, Concepts, & Skills"
6. Should have examples that are relevant to the South African Learners, they may be South African or African. Examples must reflect the diverse cultural and socio-economic context of South Africa; and must be accessible and relevant to a wide range of learners from different backgrounds, regardless of race and gender
7. Practical demonstration of experiments must be part of the audio visual content
8. Problems must be solved in a step-by-step manner, with engaging/probing questions and steps

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