



SPECIFICATION DOCUMENT

Project Name:	Smart Classrooms for 3 sites and Smartboards for various sites.		
Prepared by:	Elvis Mahlangu		
Date (Document Completed)	2025-06-13	Requisition Number	R046811
Cost Centre	1830	Ledger Account	50415

Project Initiation Phase -

This document is used to provide the Specification with general information about the need to purchase goods and services.

1. Procurement Background

The college is in the process of introducing innovative teaching and learning methods, therefore we are procuring smart classrooms and smart interactive boards, which will enhance digitalization.

2. Budget available	Yes No	Approved by Finance Department	From CIEG Budget
2 Coope of Monto			

3. Scope of Work

Supply and Deliver:

CRIPTION	QUANTITY
Features: •UHD 4K display with a resolution of 3840 × 2160. •Anti-glare and anti-blocking design to ensure smooth interaction. •Dual systems of Android and Windows (Optional with OPS) saving cost and easy-to-use, video conference software	QUANTITY 27
 are recommended to run under Windows system. Quick response, at most 50-points touch control and smooth writing experience. Built-in network switch chip saves a network switch. All-in-one design with tempered glass and intelligent temperature control, making it environmentally friendly and safety-guaranteed, supports blue light protection. EDLA Certified 	
Windows 11 Core i5 OPS Module	27
Operation System: Windows 11 Pro	
Processor: Intel® Core, i5-12450H, 12 th Memory: 8GB	
Graphics: Intel® UHD Graphics 750 Storage: 256Gb ssd	







Education Sharing System	3
Parkers	
Features:	
•Three live view control views are provided: movie mode,	
picture-in-picture mode, and multi-screen mode	
• Auto live view control realizes automatic switch of teacher	
image, student image, and multimedia image, which helps	
to meet the demand of daily teaching requirement	
•ACC format audio encoding technology, up to 48 KHz audio	
input sampling rate, and internal sound mixing feature	
provide high audio quality	
•Synchronously collect the teacher image, student image,	
and multimedia image via HDMI input Real-time encoding	
for all cameras with up to 1080p resolution	
•Support setting different resolution, frame rate, and bitrate	
for three streams, including main stream, sub-stream, and	
third stream	
 Support searching, playback, and downloading courses by 	
keywords	
•Support publishing courses to FTP server by pressing the	
publish button on front panel	
•Support manual live view control, RTMP live view, playback	
course, and configure course plan in remote client or	
platform	
•Support RTMP multimedia	
8MP Classroom Overview Dome Camera	6
Features:	
 High quality imaging with 8 MP resolution Clear imaging against strong back light due to 120 dB WDR 	
technology	
Efficient H.265+ compression technology to save handwidth and storage	
bandwidth and storage	
• 5 streams to meet a wide variety of applications	
•Water and dust resistant (IP67) and vandal proof (IK10)	
Multi-Mic Array Network Microphone	3
Features:) ()
Adopts multi-mic array, picking up sounds in the radius up	
to 10 meters	
The built-in digital circuit is embedded with DSP	
processing unit and AGC technology to realize clear sound	



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	with high	
	fidelity	
	 With multi-mic array design and self-adaptive 	
	beamforming technology, the microphone reduces	
	reverberation effectively	
	Supports accessing echo reference signal via line in	
	interface, and with AEC algorithm, the microphone	
	suppresses	
	echo and squeal effectively	
	 Supports smart noise reduction, avoiding environmental 	
	noise	
	 The indicator is convenient for troubleshooting 	
	Supports network settings and transmitting the audio	
	stream to network camera and DVR/NVR	
	• Supports 32 kHz audio sampling rate for HD sound	
		8
	Power over ethernet, convenient for installation	/
•	Analogue Ceiling Speaker	3
	A STEEL STEE	
	Features:	
	 Adopting a composite paper fiber sound basin, the sound 	
	quality is clear and bright	
	With the design of powerful steel spring clamp, the	
	installation is fast and safe	
	Support ceiling mounting installation with a simple	
	appearance	
	Impedance: 8 Ω	
	Speaker Unit: 5.25" × 1	
	Rated Power: 6 W	
•	16CH Network Video Recorder	1
	Features:	
	•H.265+/H.265/H.264+/H.264 video formats	
	•Intelligent analytics based on deep learning algorithm	
	•Up to 4-ch perimeter protection	
	<u>.</u>	
	•Up to 4-ch facial recognition for video stream	
	•Up to 8-ch facial recognition for face picture	
	•Up to 16-ch IP camera inputs	
	•Up to 32-ch 1080p decoding capability	
	 Up to 32-ch 1080p decoding capability Up to 8-ch IP speakers can be connected 	
	•Up to 8-ch IP speakers can be connected	
	•Up to 8-ch IP speakers can be	
	•Up to 8-ch IP speakers can be connected	4







• 43" Proffession 24/7 Display, 1080P	1
• 10m HDMI Cable	1
Wall Mount Bracket	27
Facial Recognition Terminal	3
 Features: •Max.1500 faces capacity, Max.3000 fingerprints capacity, and Max.3000 cards •Face Recognition Terminal, 4.3-inch LCD touch screen, 2 Mega pixel wide-angle lens, built-in M1card reading module •Two-way audio with client software, indoor station, and main station; Supports TCP/IP, Wi-Fi •Supports ISAPI, ISUP5.0 •Configuration via the web client •Face Recognition Distance: 0.3 m to 1.5 m; Duration < 0.2 s/User; Accuracy rate ≥ 99% •Supports face with mask recognition •Powers supply by standard PoE and at the same time powers supply for door lock (12 VDC/1 A) •Supports platform-applied personal PIN and device-set personal PIN 	
Face Recognition Enrolment Station, support Finger and Card Enrolment	1
Magnetic Door Lock with LZ Bracket - 280kg	3
No Touch Exit Sensor	3
Emergency Brealglass Unit	3
HikCentral Access Control Licenses	1
HikCentral Attendance Module License	1
HikCentral Facial License	3
HikCentral Sharing Tool License	3
Management Server	1



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## Features: *HikCentral VMS servers combine hardware and software products to give customers a cost-effective and comprehensive solution 1) Plug and play: No additional activation is required, and it is ready to use right out of the box 2) Easy to use: Pre-installed operating system, easy to operate and deploy *All-in-one software and hardware, no activation required, easy delivery and reliable service 1) Guaranteed compatibility: Tested by professional testing team to ensure stable operation 2) Reliable after-sales service: 24/7 platinum after-sales service CPU: E-2324G×1, 3.1 GHz, 8 MB Cache. 4 Cores, 4 Threads **Memory: Standard Config: 1 × 16GB UDIMM.* 3200MT/s, Scalability: 4 × 128GB UDIMM **Hard Disks: Standard Config: 2×1TB 3.5 inch SATA HDD, Scalability: 2×2ZTB 3.5 inch SATA/SAS HDD **Storage Controller: Standard Config: PERC H355 adaptor LP (support RAID 0/1) Compatibility: Independent SAS hardware RAID card (support RAID 5/10), ≥ 8GB cache **Installation & Commissioning of all hardware, software and cabling infrastructure **Iming of work project** **Open bidding** **Negotiations** **Open bidding** Negotiations** **Open bidding** **Negotiations** **Other** **Other** **Procurement Strategy** **Negotiations** **Other** **Other** **Other** **Other** **Other** **Other** **Procurement Strategy** **Other** **Other** **Other** **Other** **Reporting** **Meekly**	Footywas	
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6. Reporting	contracts	Other
		da mastevo mae
Neekly		
	Weekly	
7. Monitoring	7. Monitoring	
T and Academics	IT and Academics	
	8. Conditions of Bid/quotation	
	8. Conditions of Bid/quotation	







The quotation will be evaluated and the Procurement Policy Framework Act 5 of 2005 will be implemented and evaluated on an 80/20 preferences point system.

9. Special Condition

Please attach the following

- 1. Central Supplier Database (CSD) Report
- 2. Company registration form/Corporate Document
- 3. BBBEE Certificate
- 4. Latest municipal account or any other proof of Business residential address
- 5. Valid Tax clearance certificate
- 6. OEM
- 7. Any other specific requirements

10. Further Information

End user's contact details for enquiries

11.	Signatures	3
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Project name:	Smart Classrooms for 3 sites and	d Smartboards for va	rious sites.
We have reviewed the in	formation contained in this Specific	ation and is in line w	ith the College need.
		Date:	Pecommonded/Not

Name	Role	Signature	Date: (DD/MM/YYYY)	Recommended/Not Recommended
Mr SM Hlongwane	ASD: IT	Pp M	26/06/2015	Recommen Les
Ms S Mohoto	ASD: FACILITIES	116	27/06/2025	Recommended
Mr. KW Mphuthi	Acting DPC	Mosmities	2025/07/01	Reconencioles
Ms N Ndifelani	Acting DPF	Halam	02 07 2015	Approved

Approval for Projects over R200 000

Name	Role	Signature	Dater (DD/MM/YYYY)	Approved/ Not Approved
2-7 A 1	Accounting Officer	Man 1	09/07/2021-	Approved
1 1/100	169	Julia	' ' ' ' '	Not Approved

