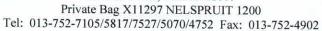


Ehlanzeni TVET College







To:

SUPPLY CHAIN UNIT

From:

SPECIFCATION COMMITTEE

SUBJECT:

Specification for Internet Backup Line

TEM UMBER	WORK	PRODUCT DESCRIPTION/SPECIFICATION/SCOPE OF	PRODUCT
1.	1. Technical Specifications A. Core Requirements		
	Parameter	Specification	1,
	Technology	Dedicated fibre-optic connection is required as the primary medium. Wirel or LTE may only be used as a temporary backup during outages or in areas where fibre is not immediately available.	ess
	Bandwidth	Minimum of 200 Mbps symmetrical bandwidth (upload and download), with capability to scale up to 500 Mbps as needed.	ith
	Uptime SLA	Guaranteed minimum uptime of 99.95% per month, excluding periods of scheduled and approved maintenance.	
	Failover Time	Automatic failover to the backup link must occur within 2 minutes of prim link failure detection.	ary
	Latency /	End-to-end network latency must be ≤ 30 milliseconds, with jitter not	
	Jitter	exceeding 5 milliseconds under normal operating conditions. & Management	
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	Jitter B. Monitoring	Management Specification - Service provider must ensure a seamless deployment with no interruption to existing services All implementation work must be carried out during off-peak hours	ck
	B. Monitoring Requirement	Specification Service provider must ensure a seamless deployment with no interruption to existing services. - All implementation work must be carried out during off-peak hours (between 19:00–05:00 or on weekends) unless otherwise approved in writing by the college's IT department. - A detailed Risk Mitigation Plan must be submitted, outlining rollbar steps and including evidence of past implementations conducted with client service disruption. - A real-time monitoring platform must be provided, displaying live statistics including autime letency, peaket loss, and headwidth usage.	ck out

Component	Specification	
Managed Firewall	The solution must include a managed firewall with the following capabilities: - Intrusion Detection and Prevention Systems (IDS/IPS) DDoS protection with minimum 10 Gbps mitigation capacity Monthly vulnerability assessments and reporting.	
Data Sovereignty	All routing and processing of internet traffic must remain within the territorial boundaries of South Africa. No traffic is to transit through foreign countries at any stage.	
		Standard Industry Rate

Mr EM Mbuyane Principal