### **Network Design Budget**

**Group Assumptions:**

* Employees: Approximately 180
* Wired Devices: 170
* Wireless Devices: 700
* Total Devices: 850 - 880

#### **Tabulated Budget:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Quantity** | **Unit Price (R)** | **Total Price (R)** | **Source** |
| Netgear GS724T 24-Port Gigabit Smart Switch | 10 | 3,400.00 | 34,000.00 | Netgear (2024) |
| Ubiquiti UniFi AP AC Pro | 30 | 2,500.00 | 75,000.00 | Ubiquiti (2024) |
| Cat6 Ethernet Cable (305m roll) | 5 | 627.00 | 3,135.00 | Takealot (2024) |
| HP LaserJet Pro Printer | 6 | 5,599.00 | 33,594.00 | HP Online (2024) |
| Logitech Rally Plus Video Conferencing System | 1 | 96,999.00 | 96,999.00 | FirstShop (2024) |

Subtotal: **R242,728.00**

#### **Labour Cost Estimation (TechTribe IT Solutions – R650/hour):**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Hours** | **Rate (R)** | **Cost (R)** |
| Network Design and Planning | 10 | 650 | 6,500.00 |
| Hardware Installation | 25 | 650 | 16,250.00 |
| Cabling and Infrastructure Setup | 35 | 650 | 22,750.00 |
| Testing and Troubleshooting | 15 | 650 | 9,750.00 |
| Documentation and Handover | 7 | 650 | 4,550.00 |

**Total Labour Cost**: R59,800.00

**Contingency** (10% of subtotal): R24,272.80

**Grand Total**: R326,800.80

### **References:**

* Netgear (2024). GS724T Switch. Available at: [https://www.netgear.com](https://www.netgear.com/)
* Ubiquiti (2024). UniFi AP AC Pro. Available at: [https://www.ui.com](https://www.ui.com/)
* Takealot (2024). Cat6 Ethernet Cable (305m roll). Available at: <https://www.takealot.com/cat6-utp-network-cable-305m/PLID71783339>
* HP Online (2024). HP LaserJet Pro Printer. Available at: <https://www.hponline.co.za/collections/laserjet-printers>
* FirstShop (2024). Logitech Rally Plus System. Available at: <https://www.firstshop.co.za/products/logitech-rally-plus-group-video-conferencing-system>
* TechTribe IT Solutions (n.d.). Services and Rates. Available at: <https://www.techtribe.co.za/services/> [Accessed: 29 April 2025]