



## C 2.2. BILL OF QUANTITIES

Item	Quantity	Description	
<b>Networking</b>			
1	1.00	48 Switch POE (Managed)	
2	1.00	48 Switch POE (unmanaged)	
3	1.00	24 Switch POE (Managed)	
4	1.00	24 Switch POE (Unmanaged)	
5	1.00	12 Switch POE	
6	1.00	8 Switch POE	
7	1.00	Network Tester	
8	1.00	Fibre Slicing	
9	1.00	Fibre Cable 1M	
10	1.00	Compression and crimp tool	
11	1.00	CAT 6 Network Cable 1m	
12	1.00	Fibre Optic Tools	
13	1.00	Auto / Manual switch box	
14	1.00	Installation consumables/cable/flyleads/connectors	
15	1.00	Surface Mount Box	
16	1.00	Programming	
17	1.00	Network Diagram	
18	1.00	Firewall	
<b>Servers</b>			
19	1.00	Server Proliant G10	
20	1.00	Storage Area Network (SAN) 100TB	
21	1.00	Storage Area Network (SAN) 200TB	
22	1.00	Storage Area Network (SAN) Controller	
23	1.00	Installation consumables/cable/flyleads/connectors	
24	1.00	Programming	



**SUPPLY, DELIVERY AND MAINTENANCE OF 3<sup>RD</sup> LEVEL SUPPORT IN ALL ICT MATTERS  
FOR A PERIOD OF 36 MONTHS**

<b>Software</b>			
25	1.00	Microsoft Office Volume Licence	
26	1.00	Microsoft 365	
27	1.00	Veeam Back-up licence	
28	1.00	VMware Xsi Sphare	
29	1.00	Network Monitoring	
30	1.00	Access Control Management licence	
31	1.00	Time and Attendance licence	
32	1.00	Spam Filtering	
33	1.00	DocuSign licence	
34	1.00	Adobe reader Professional	
35	1.00	PDF and word Converter	
36	1.00	ICT Asset register tool licence	
37	1.00	Firewall Licence	
38	1.00	Programming	
<b>Time and attendance, access control and Camera control</b>			
39	1.00	IP Camera System	
40	1.00	Video Management solution	
41	1.00	Access Control internal	
42	1.00	Access Control out doors	
43	1.00	Time and attendance system	
44	1.00	Programming	
45	1.00	Maintenance	
<b>Computers</b>			
46	1.00	I7 Laptop High Spec	
47	1.00	I7 Laptop normal Spec	
48	1.00	I7 Desktop High Spec	
49	1.00	I7 Desktop Normal Spec	
50	1.00	I5 Desktop Normal Spec	
51	1.00	4 in 1 Colour laser Printer	
52	1.00	Multi-function printer Colour	
53	1.00	4 in 1 Black laser printer	
54	1.00	Key board	
55	1.00	Mouse	
56	1.00	Screen 17 inch	
57	1.00	Screen 15 inch	
58	1.00	I7 Motherboard	



**SUPPLY, DELIVERY AND MAINTENANCE OF 3<sup>RD</sup> LEVEL SUPPORT IN ALL ICT MATTERS  
FOR A PERIOD OF 36 MONTHS**

59	1.00	Desktop Phone cordless VOIP	
60	1.00	Desktop phone VOIP gadget	
61	1.00	Manual Projector	
62	1.00	Projector Screen Manual	
63	1.00	Wireless access Point (Router)	
66	1.00	Tablet 15 inch Normal	
67	1.00	Tablet 13 inch high spec	
68	1.00	Tablet 15 inch high spec	
<b>Maintenance</b>			
69	1.00	Maintenance and Monitoring of DR site	
70	1.00	Maintenance and monitoring of Servers	
71	1.00	Maintenance and monitoring of Network	
<b>Resources</b>			
72	1.00	Project Manager	
73	1.00	Senior Network	
74	1.00	Network Engineer	
75	1.00	Cabling Technician	
76	1.00	Travelling	
<b>Connectivity</b>			
77	1.00	Router (5G, 4G, 3gG) 10GB	
78	1.00	Router (5G, 4G, 3G) 20GB	
<b>Projects</b>			
79	1.00	Creation and development of Intranet	
80	1.00	Online Website	
81	1.00	Networking	
82	1.00	Document Management system	
83	1.00	Call Centre System	
84	1.00	Telemetry	
85	1.00	Project & Performance Management	
<b>REPAIRS</b>			
86	1.00	Laptop Screen 19 inch	
87	1.00	Laptop Screen 17 Inch	
88	1.00	Laptop Screen 15 Inch	
89	1.00	Laptop Motherboard i7	
90	1.00	Laptop Motherboard i5	
91	1.00	Laptop touchpad	
92	1.00	Desktop Screen	
93	1.00	Desktop Motherboard	
<b>TOOLS</b>			
94	1.00	Power supply (Desktop)	
95	1.00	Motherboard i7 (Desktop)	
96	1.00	Mouse Cordless	
97	1.00	Keyboard Cordless	
98	1.00	Network Access point	
99	1.00	Security Cable	
100	1.00	Network fly leads 5m	
101	1.00	Network fly leads 3m	
102	1.00	Fibre fly leads	
103	1.00	Screen security (Privacy ) Screen	
104	1.00	DDR RAM	
106	1.00	2 TB hot plug SATA hard disk Drive	
106	1.00	1 TB Hot plug SATA hard disk Drive	



**SUPPLY, DELIVERY AND MAINTENANCE OF 3<sup>RD</sup> LEVEL SUPPORT IN ALL ICT MATTERS  
FOR A PERIOD OF 36 MONTHS**

<b>TRAINING</b>		
107	1.00	ITIL
108	1.00	Security
109	1.00	Microsoft Exchange
110	1.00	Microsoft Server Operating System
111	1.00	Governance
112	1.00	Veeam
113	1.00	VMWare (Virtualisation)
114	1.00	COBIT
115	1.00	ISO Standard
116	1.00	Attix
117	1.00	Red Hat
118	1.00	Oracle
119	1.00	CISCO
<b>ON-GOING SERVICES</b>		
120	1.00	Service Provider to propose a retainer-based model for providing above services

**Specification of Projects - Detailed.**

<p><b>Creation and development of Intranet</b></p> <ul style="list-style-type: none"> <li>- Develop a local and restricted municipal network.</li> <li>- Secure the local network</li> <li>- Be able to have an application to access the local information.</li> </ul>
<p><b>Online and digital Website</b></p> <ul style="list-style-type: none"> <li>- Creation of a municipal website to be accessed by stakeholders and the community</li> <li>- Be able to create database for the municipality</li> <li>- Be able to create referent</li> <li>- Be able to generate, store, and processes data</li> <li>- Be able to integrate with municipal systems</li> </ul>
<p><b>Networking Upgrade</b></p> <ul style="list-style-type: none"> <li>- Supply and configure 2 Core Switches (create redundancy)</li> <li>- Supply and configure 8, 48 port switches (Managed)</li> <li>- Supply and install Fibre cable to connect core switch and cabinet switches</li> </ul>



<ul style="list-style-type: none"><li>- Create secure Wi-Fi connection to allow guest and private users.</li><li>- Test Cat 6 cable and replace damaged</li><li>- Submit test results</li><li>- Draw and submit network topology</li></ul>
<b>Document Management System</b> <ul style="list-style-type: none"><li>- Create an automatically organized, secured, digitized and classify municipal documents.</li><li>- Be able to access, edit and share</li><li>- Keep track of all documents</li></ul>
<b>Call Centre System</b> <ul style="list-style-type: none"><li>- Creation a central system to receive, or transmitting a large volume of requires by telephone, whatsapp and or email.</li><li>- Call tracking and be able to give reference to each caller</li><li>- To able to allocate the call to the relevant unit or department.</li></ul>
<b>Telemetry System</b> <ul style="list-style-type: none"><li>- Supply, install and maintenance of all municipal water reservoirs</li><li>- Record the overflow and time their durations</li><li>- Monitor water treatment processes, pumps, and valves</li><li>- Measure the inflow and outflow of water.</li></ul>

**Quantities mentioned above are for evaluation purposes only.**

- **OFFERS ARE TO BE VALID FOR 120 DAYS FROM THE CLOSING DATE OF THE BID.**
- **NB: The annual escalation price is fixed on CPI, starting on the second year of appointment. The average CPI of the previous year will be the determination of the escalation for the newyear. The CPI determined is fixed for the entire year and no CPI will be applied on the first year.**
- **Allocation of work will be subject to availability of funds.**