



DIRECTORATE:	BTO/ENGINEERING
PROJECT DESCRIPTION:	APPOINTMENT OF TWO(2) SERVICE PROVIDERS TO SUPPLY AND DELIVER 11KV RING MAIN UNITS WITH CIRCUIT BREAKER TEE – OFF SWITCH AND METERING UNIT FOR A PERIOD OF THREE (03) YEARS
BID NUMBER:	PM171/2018

ADDENDUM NO. 1

Number	Description
1	The bidders were informed during the briefing session held on the 23 July 2019 that two (2) Service Providers will be appointed for this project. During the briefing session bidders raised concern that the RMU we have specified in the document is no longer in the market. The bidders were promised that the municipality will go back and revisit the specification to be in line with what is on the market. The below is an addendum page 34 of tender document. The bidders are required to replace original page 34 of tender document with the below addendum page.

Technical specification:

Ring main Unit type 2 Isolator and CB 12kV 21kA 95 BIL

Ring Main Unit consisting of a single sealed tank with 2 cable switches and earthing switches with making performance, and 1 circuit breaker T-off with a self powered overcurrent & earth fault relay

STANDARDS AND MECHANICAL DATA

Metal Enclosed switchgear: IEC 62271-200	
General Purpose switches: IEC 62271-103	
Disconnectors and Earthing switches: IEC 62271-102	
Switch Fuse Combination: IEC 62271-105	
Circuit Breakers: IEC 62271-100	
Common clauses: IEC 62271-1	
Pressure of SF6 gas:	1.4 bar at
20 °C	
Cable bushings:	DIN 47636
Temperature class:	-25 °C -
+40 °C Indoor	
Relative humiditz max. 24 hour mean	95%
Loss of service continuity	LSC 2-PM,
F-mod. LSC 2A-PI Electrical and mechanical classes	
- Isolator-module:	E3, C2, M1
- Fuse-module:	E3, M1
- Circuit Breaker -module:	E2, C2, S1,
M1	
Degree of protection:	
- SF6 tank:	IP 67
- Fusecanisters:	IP 67
- Front cover:	IP 2X
- Cable cover:	IP 3X
Busbars:	240 mm ² Cu
Earth bar (external): bolt dimension: M10	100 mm ² Cu
Thickness of Stainless Steel Tank:	3.0 mm
Colours:	
- Front cover:	RAL 7035
- Side and cable cover:	RAL 7035

ELECTRICAL DATA - 12 kV (630A Bus Bar) 95 BIL, 28kV 1 min.

Rated current for busbars: 630 A

Rated current for cable switch disconnecter: 630 A

Short time withstand current:

- Cable switch disconnecter with interface C (400-bolt) bushing: 21 kArms 3 sec.
- Vacuum circuit breaker with interface C (400-bolt) bushing: 21 kArms 3 sec.
- Rated current for transformer fused T-off: 200 A

Impulse withstand voltage:

- To earth and between phases: 95kV

Insulation level:

- Power frequency 1 min: 28kV

- 3 Way outdoor kiosk mild steel - IP44 rating, IAC 20kA 0.5s
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Ring main unit type 2 Isolators & 1-CB 12 kV , 630 A, 21kA

Internal Arc Classification IAC AFL 20kA 0.5 s

Cable test bushings tool free for 2 Isolators & CB with interlocked cover Long Operating handle