

**ANNEX 7 . GUARANTEED PERFORMANCE FEATURES FOR DOWN LINK COMMUNICATIONS (COMMUNICATION BETWEEN METER AND DCU)**

Parameters	Radio	PLC	GPRS	FO
Channels	Around the 920MHz band licenced.	At least 300 Carrier Channels. Communication Channels to cater for continuous stream from meters(Interval 15 min)		
Data Rate	>500Mbps	>500Mbps at Physical layer:(IEEE 1901-2010 )		
Attenuation	As required	CCO module serves as the TX : 120 dB. When the STA module serves as the TX : 110 dB.		
Range and meter reading Test	Show routing and mesh recovery, Dynamic routing	Test must show maximum point to point(least 2400m) with connection of at least 100 meters at worst case Interference		
Bandwidth	Support Continuous Stream. Resilient	Support Continuous Stream		
Latency	Low Latency	Downlink/Uplink average delay of 10ms with packet loss of 0%		
Signal to Noise (S/N) ratio	>30dB	30dB	30dB	
Technology	802.11a/b/g/n, Predictive routing	Edge equivalent and above	3G and above	
Compatibility	Show the product can communicate with different vendor meters	Show the product can communicate with different vendor meters		
Requirement	All Radios must be approved by Communication Authority			Connect to KPLC fibre presence