

Details to be included in the procurement:

The cost should include the equipment provision in Ghana and all related to software installation, training (could be online), and commission cost.

Table 1. Melt Flow Rate (MFR) Indexer Specifications

Measurement	Melt flow rate for thermoplastics
Suitable for	ABS, HIPS, ABS/PC, PET, HDPE, PVC, LDPE, PP, PS Additional: PUR, PA, PPO, PMMA, PC, PE
Standards	ISO 1133 / ASTM D1238
Sample size particle	2.5-3mm
Power supply	AC 220-240 V and 50 Hz (Ghana)
Extrusion part	
Discharge hole diameter	$\Phi 2.095 \pm 0.005 \text{mm}$
Discharge hole length	$8.000 \pm 0.025 \text{mm}$
Charge cylinder internal diameter	$\Phi 9.550 \pm 0.025 \text{mm}$
Piston rod diameter	$\Phi 9.475 \pm 0.015 \text{mm}$
Piston rod effective stroke (Loop distance from up and down)	30mm
Control precision	$\pm 0.100 \text{mm}$
Measuring parameters	
Temperature range	Room temperature maximum 450 °C
Temperature control precision	$\pm 0.5 \text{ }^{\circ}\text{C}$
Temperature fluctuation	$\pm 0.2 \text{ }^{\circ}\text{C}$
Temperature resolution	0.1 °C
Temperature recovery time	$\leq 4 \text{min}$
Timing accuracy	0.1s
Cutting mode	Automatic (during process), manual (when adjusting)
Measuring range	0.1~100g (300g)/10min
Total load	Total 8 grades, 8 sets of weight
Test load	
Grade 1	0.325kg
Grade 2	1.200kg
Grade 3	2.160kg
Grade 4	3.800kg
Grade 5	5.000kg
Grade 6	10.000kg
Grade 7	12.500kg

Grade 8	21.600 kg
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