

PERFORMANCE ASSESSMENT OF PSBD UNIT SN:		QCN:	DATE:
<b>Drive Configuration</b>		<b>Notes</b>	
Engine Brand			
Engine Size (HP)			
Engine Pulley Type and Size (Type A/B, Dia)			
Engine RPM @ Idle			
V-belt Type and Length			
18" Fan Pulley Type and Size (Type A/B, Dia)			
12" Fan Pulley Type and Size (Type A/B, Dia)			
<b>Passive Performance testing against 500 kg of loaded maize</b>			
Grain bed depth (cm)			
<b>Performance @ Engine Idle</b>			
Paper test (Yes/No) - If NO, skip to Performance @ Paper Float			
Engine RPM			
18" Fan RPM			
Drying air volume @ Engine idle (CMM)		Measured at the opening of the 18" fan. Area = 0.164 m2.	
12" Fan RPM			
Combustion air volume (Furnace) @ Engine idle (CMM)		Measured at the top of the fire grate before ignition. Area = 0.0548 m2.	
Combustion air volume (Chimney) @ Engine idle (CMM)		Measured at the top of the chimney before ignition. Area = 0.0397 m2. This will highlight HX leakage	
<b>Performance @ Paper Float Test - Refer to engine idle above</b>			
Engine RPM			
18" Fan RPM			
Drying air volume @ Paper Float Test (CMM)		Measured at the opening of the 18" fan. Area = 0.164 m2.	
12" Fan RPM			
Combustion air volume (Furnace) @ Paper Float Test (CMM)		Measured at the top of the fire grate before ignition. Area = 0.0548 m2.	
Combustion air volume (Chimney) @ Engine idle (CMM)		Measured at the top of the chimney before ignition. Area = 0.0397 m2. This will highlight HX leakage	
<b>Active Performance testing against 500 kg of loaded maize - Time to reach 65° C in the plenum. If not, temperature after 30 min from igniting the furnace</b>			
Reached 65° C within 30 min? (Yes/No?)			
Time (min) - 30 min if not reached			
Drying Air Temperature (°C)		Measured at the plenum end the connecting duct at the furnace side.	
Plenum Temperature (°C)		Measured at the furthest point from the drying air supply	
Fuel Consumption (ml)			