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**AGRICULTURE MACHINERY CENTRE**

MINISTRY OF AGRICULTURE AND FORESTS  
PARO: BHUTAN



Test Result Sheet/AMC No: 2015001

Date: 01.04.2015

Type of Machine:- **Power Tiller** Model: **Kubota RT125** Manufacturer: **Kubota Co. Limited**

1. Specification:

a. Structure:

Overall length (mm)	Overall width (mm)	Overall height (mm)
2290	710	1200

**b. Engine:** 4 strokes, Diesel, Single Cylinder, Direct Injection, Rated Engine Speed: 2400 rpm, Maximum Power: 12.5 hp

**c. Transmission:** Mechanical, 6 Forward and 2 Reverse gears, Dry Multi Plate Clutch and Dog Steering Clutch, Nominal Speed at Highest Gear: 18 (km/h)

**d. Tyre:** Pneumatic Size: - 6 – 12 Tread: - 700

e. Implements:

1. Plow: Matsuyama MR – 83
2. Rotary: Standard Model of RT125
3. Trailer: Wangchuk Agro Engineering Make

2. Test Result:

2.1 Safety Device:-

Remarks: A guard or cover for driving pulley and v-belt is recommended to be equipped.

2.2 Maximum Output Engine Power at 2250 masl:- (Standard:  $\leq 30\%$  power reduction)

Particular	Rated rpm	Manufacturer Max rated Power (hp)	Max output Engine Power (hp)	Engine Power Reduction (%)
Mean	2400	12.5	9.24 $\pm$ 0.28	26.08 $\pm$ 2.29

Atmospheric Condition: Temperature: 27 °C, Relative Humidity; 58 %, Pressure: 772 hpa

2.3 Operation Test

2.3.1 Field Efficiency:-

Implements used	Gear position	Field capacity (acre/day)(Mean Value)	Fuel Consumption (L/day)(Mean Value)
Plow	4	1.16 $\pm$ 0.06	4.78 $\pm$ 0.42
Rotary	3	3.95 $\pm$ 0.15	8.77 $\pm$ 0.84

Note: One day is expressed for 7 working hours

2.3.2 Vibration Level:- (Standard:  $\leq 15\text{m/sec}^2$  at normal condition)

Test Points	Mean Value (m/sec <sup>2</sup> ) at different Throttle Positions (Lab)		
	Low	Middle	High
Right Handle	6.78 $\pm$ 0.86	4.56 $\pm$ 0.46	6.16 $\pm$ 0.35

PABX: 271234, 271460, Fax: 271568. Program Director: 272008, FMS: 272130

Accounts: 272451, AMTC: 272452

E-mail: [amc@moaf.gov.bt](mailto:amc@moaf.gov.bt) Post Box # 1228



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Left Handle	6.14±0.77	6.75±1.89	5.28±0.17
Test Points	Mean Value (m/sec <sup>2</sup> ) at normal operation (Field)		
Right Handle	4.16±0.17		
Left Handle	3.89±0.19		

**2.3.3 Sound Level: (Standard:<100dB(A))**

Operation (Field), Running	Noise Level (dB), Position	
	Left	Right
Mean	78.63±3.1	78.13±2.65

**2.3.4 Service Brake Value: (Standard: <5 m stopping distance)**

Parameters	With load (Mean Value)	Without load(Mean Value)
Stopping distance (m)	3.45±0.25	2.83±0.14
Travelling speed (km/h)	16.28±0.63	16.45±0.08

**2.3.5 Parking Brake Value (Standard: No wheel movement at 18% slope)**

Parking Brake Lever	Wheel movement observation	
	Facing Upward	Facing Downward
Engaged	No movement	No movement

**2.3.6 Handling Remarks:** The machine was operated in smooth normal condition without hindrance.

**2.3.7 Water Proofing Test: (Standard: Water should not enter)**

Items	Observations
Infiltration of water in axle case	No water observed in axle case
Infiltration of water in auxiliary transmission case	No water observed in auxiliary transmission case

**Manager**  
Agriculture Machinery Certification Section  
AMC/DoA/MoAF : Paro

Head, AMCS



**Programme Director**  
Agriculture Machinery Centre  
Paro : Bhutan

Program Director, AMC

PABX: 271234, 271460, Fax: 271568. Program Director: 272008, FMS: 272130

Accounts: 272451, AMTC: 272452

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