**Test Report No.**

ANTAM Logo

Test Centre Logo

**TEST REPORT**

**Product:**

**Manufacturer:**

**The Asian and Pacific Network for Testing of Agricultural Machinery (ANTAM)**

**REMARKS**

1. This report is invalid without the official logo of ANTAM.

2. Report shall not be duplicated in full or part without the approval of ANTAM.

3. This report is null without the authorized signature of ANTAM.

4. Any amendment to this document is not allowed.

5. Any discrepancy on this report shall be reported to the ANTAM Secretariat within 15 days after the date of receiving.

6. The test report under normal circumstances is valid for the samples tested.

Address

Postal code :

Tel :

Fax :

Email :

（Photo）

Name of the tested product

Manufacturer :

Applicant :

Address :

Postal Code :

Tel :

Fax :

Contact Person :

Email :

|  |  |  |
| --- | --- | --- |
| Product | Mister cum duster | |
| Model |  |
| Trade Mark |  |
| ANTAM Test Code |  | |
| Authorized test center |  | |
| Adress |  |
| Contact Details |  |
| Manufacturer | Adress |  |
| Contact Details |  |
| Test Location |  | |
| Number of samples | 3 | Date of Manufacture |
| Serial numbers of machines  (highlight the SN of the machine corresponding to the test results) | 1. |  |
| 2. |  |
|  | 3. |  |
| Date of Reception |  | |
| Received by | Name | Contact No. |

1. **Technical Specifications (B-1)**

**P : Pass, F : Fail, NA : Not Applicable**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **GENERAL** | **Specifications** | **P/ F / NA** |
| 1.0 | Overall dimensions (length x width x height) / (mm) |  |  |
|  | Net Weight (without liquid/dust), / (kg) |  |  |
| 2.0 | ENGINE  *(No test necessary if a certified test report is provided by the manufacturer (according to either one of the following standard: IS 7374-1974, JB/T 5135.1 or ISO 8178.4-2007)*  Engine Certification Number:  ***(If no engine test certification provided the equipment might be rejected)*** |  |  |
| 2.1 | Make/Type/Model/Country |  |  |
| 2.2 | Serial number |  |  |
| 2.3 | Engine (manufacturer’s recommended settings)   * Rated Power /(kW) * Maximum Torque, / (Nm) * Maximum Revolution Speed at no load,/ (rpm) * Speed at maximum Torque, / (rpm) * Specific Fuel Consumption,/ (g/kWhr)   Specific Oil Consumption, / (g/kWhr) (where relevant) |  |  |
| 2.4 | Type of fuel used (octane number) |  |  |
| 2.5 | Fuel tank Capacity, / (l) |  |  |
| 2.6 | Presence of strainer at engine tank inlet, |  |  |
| 2.7 | Type of fuel filter |  |  |
| 2.8 | Starting system:  - Type  - Aids for cold starting, if any  - Any other device provided for easy starting |  |  |
| 2.9 | Noise level at maximum speed, / (dB(A)) |  |  |
| 3.0 | FRAME |  |  |
|  | Material of Construction |  |  |
|  | Size (Width x Height x Length) |  |  |
| 4.0 | TANK |  |  |
|  | Shape (Trapezoidal/Cylindrical/ Any other) |  |  |
|  | Size (In case of Trapezoidal : Width x Height x Depth, In case of cylindrical: Diameter x Length), / (mm) |  |  |
|  | tank capacity, / (l) |  |  |
|  | Material of construction |  |  |
|  | Size of liquid filling hole, / (mm) |  |  |
|  | Strainer or filter Mesh Size / (mm) |  |  |
|  | Tank level demarcation |  |  |
|  | Extra volume of 5% |  |  |
| 5.0 | BACK REST |  |  |
|  | Size (Width x Height x Thickness) / (mm) |  |  |
|  | Material |  |  |
| 6.0 | STRAP |  |  |
|  | Material of strap |  |  |
|  | Material of strap buckle |  |  |
|  | Quick release mechanism |  |  |
|  | Width and Thickness of strap / (mm) |  |  |
|  | Minimum and Maximum strap length can be used/ (mm) |  |  |
| 7.0 | MISTING/DUSTING DUCT |  |  |
|  | Types of misting/dusting duct equipped |  |  |
|  | Misting/Dusting duct internal diameter and Length / (mm) |  |  |
|  | Air hose: Length and internal Diameter / (mm) |  |  |
|  | Presence of air flow regulator |  |  |
| 8.0 | BLOWER |  |  |
|  | Impeller type : Fully enclosed / partially enclosed |  |  |
|  | Impeller type : Fully enclosed / partially enclosed  Material, diameter / (mm) |  |  |
|  | Impeller blade type : Forward bent / radial / backward bent  Number of blades |  |  |
| 9.0 | DETAILS OF AGITATING DEVICE PROVIDED (if any) |  |  |
| 10.0 | LIST OF STANDARD ACCESSORIES/PARTS PROVIDED WITH EQUIPMENT  (provide as annex) |  |  |
| 11.0 | PUBLICATIONS  Operator’s manual  Service manual  Parts catalogue  Safety precautions |  |  |

1. **Measuring Equipments/instruments Used**

|  |  |  |  |
| --- | --- | --- | --- |
| **Equipment** | **Model** | **Purpose** | **Accuracy** |
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1. **Test Results**
2. **COMPONENT TEST**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Tested Component** | | **Units** | **Performance Specification** | **Test Results** | **Comments**  **P/F/NA** |
| **Item** |  |  |  |  |  |
| 1 | Leakage test of the whole machine |  | Every component shall be tightly sealed without leakage. |  |  |
| 2 | Chemical Tank Leakage test |  | Maintained pressure of 10kPa during 1 min without leakage |  |  |
| 3 | Blower Fan over speed test |  | Blower Fan tested at 1.3 rated speed. Repeated 3 times each for 5 min. Blower fan blade shall not damage, loose parts or deform. |  |  |
| 4 | Normal temperature starting |  | Started within 30s |  |  |
| 5 | Accelerated Aging test |  |  |  |  |
| 6 | Strap Chemical Absorption test |  | <30% |  |  |
| 7 | Strap Drop Test |  | There shall be no damage on load bearing straps and their fixation points that reduces their functionality as a consequence of the specified strap drop test |  |  |

1. **PERFORMANCE TEST**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | **Tested Component** | **Units** | Performance specifications | Test results | Comments P/F/NA |
| **1** | HORIZONTAL MISTING | Range | m | (declared by the manufacturer) |  | diagram in annex |
| Width | m | (declared by the manufacturer) |  |  |
| Discharge rate | l/min | (declared by the manufacturer) | (average of segments ?) |  |
| CV | % | <6% |  |  |
| Residues | l | <0.1 |  |  |
| Droplet size (VMD) | µm |  |  |  |
| Droplet density | droplets/cm2 | if available |  |  |
| **2** | VERTICAL MISTING | deposition at 3m |  |  |  | diagram in annex |
| Discharge rate | l/min | (declared by the manufacturer) | (average of segments ?) |  |
| CV | % | <6% |  |  |
| **3** | HORIZONTAL DUSTING | Range | m | (declared by the manufacturer) |  | diagram in annex |
| Width | m | (declared by the manufacturer) |  |  |
| Discharge rate | kg/min | (declared by the manufacturer) |  |  |
| Deviation | % | <15% |  |  |
| Idle discharge | g/min | <40 |  |  |
| **4** | VERTICAL DUSTING | Discharge rate | kg/min | (declared by the manufacturer) |  |  |
| deviation | % | <!5% |  |  |
| **5** | BLOWER FAN | Air velocity profile |  |  |  | diagram in annex |
| Air volume |  |  |  |  |

1. **SAFETY AND ENDURANCE**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **1** | VIBRATION TEST | m/s2 | ≤15 |  |  |  |
| **2** | NOISE TEST | dBA | ref Table 7a |  |  |  |
| **3** | MTTFF |  |  |  |  |  |
| **4** | SAFETY LABELS |  | Firmly fitted / informative |  |  |  |
| **5** | QUALITY OF ASSEMBLY AND APPEARANCE |  | 1.                 All joints must be firm reliable, rotational parts should be flexible；easily controlled; rated power shall be obtained for the maximum position of the throttle. A the lowest position, the engine shall stop  2.                 All parts shall not be deformed, slanted, the paint coat quality should meet with quality standard two and above |  |  |  |
| **6** | EASE OF OPERATION |  | 1-                Control devices should be easy and reliable  2-                Easy conversion from mister to duster  3-                Easy maintenance  4-                Easy cleaning |  |  |  |

1. **CONCLUSION AND RECOMMENDATION**

**Tests conducted by : Reported by : Verified by :**

**Dates**