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| **TECHNICAL SPECIFICATIONS FOR FERTILIZER BROADCASTER** |

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| **1.1** | **General:** | |  |  | |
| Name & address of manufacturer | | : |  | |
| Name & address of applicant | | : |  | |
| Type | | : |  | |
| Make | | : |  | |
| Model | | : |  | |
| Year of manufacture | | : |  | |
| Serial No. | | : |  | |
| Recommended prime mover | | : |  | |
| Fertilizer spreading range of implement, m | | : |  | |
| **1.2** | **Prime mover used** | |  |  | |
| Type | | : |  | |
| Tractor | | : |  | |
| Engine No. | | : |  | |
| Chassis. No. | | : |  | |
| Year of manufacture | | : |  | |
| Max PTO power, kW | | : |  | |
| Rated engine speed/PTO recommended for field test, rpm | | : |  | |
| **1.3** | **Specification of machine:** | |  |  | |
| **1.3.1** | **Propeller shaft:** | |  |  | |
| Type | |  |  | |
| Length of propeller shaft, mm  Maximum  Minimum | |  |  | |
| **Notation** | **Corresponding propeller shaft hub dimensions**  **(PTO type 1)** | | | |
|  | **As per IS 4931: 1995 (mm)** | | | **As observed (mm)** |
| A | 54 (minimum) | | |  |
| L | 8.69 (minimum) | | |  |
| D Ø | 34.93±0.03 | | |  |
| d Ø | 29.7±0.1 | | |  |
| b Ø | 34.6 (minimum) | | |  |

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|  | Provision for locking | : |  |
| Mass of shaft, kg | : |  |
| **1.3.2** | **Mast:** |  |  |
| Type |  |  |
| Constructional details | : |  |
| **1.3.3** | **Dimensions of hitch of implement as per IS 17231:2019 (Table 4) (Ref. Fig. 4):** | | |

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| **Dimensions** | **Specifications** | **Dimensions in mm** | | **Remarks** |
| **As per IS 17231:2019**  **(Cat-I/Cat-2)** | **As measured** |
| **Upper hitch point** | | | | |
| D1 | Dia. of hitch pin | 25.37 -25.50 |  |  |
| b1 | Width between inner faces of yoke | 52 (Min.) |  |  |
| **Lower hitch attachments** | | | | |
| D2 | Dia. of hitch pin | 27.8 - 28.0/  27.8 - 28.0 |  |  |
| b3 | Linch pin hole distance | 49 (Min.) |  |  |
| b5 | Clevis width hole | 65 - 67 |  |  |
| l | Lower hitch point span | 683±1.5/  825 ± 1.5 |  |  |
| **Other Dimensions** | | | | |
| d | Diameter for linch pin hole | | | |
| For Upper hitch pin | 12 (Min.) |  |  |
| For Lower hitch pin | 12 (Min.) |  |  |
| h | Mast height | 460±1.5/  610 ± 1.5 |  |  |

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| **1.3.4** | **Power transmission system** |  |  |
|  | Method of transmission | : |  |

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| **Notation** | **Corresponding power input shaft dimensions**  **(PTO type 1) (Refer fig.4)** | | **Conformity with IS** |
| **As per IS: 4931-1995 (mm)** | **As observed (mm)** |  |
| A | 54 (min) |  |  |
| B Ø | 29.4+0.1  - 0 |  |  |
| D Ø | 34.79±0.06 |  |  |
| d Ø | 28.91±0.05 |  |  |
| G | 7.0 |  |  |
| C | 38.0 |  |  |
| b (optional) | 25.0±0.5 |  |  |
| m (optional) | 8.3 Ø |  |  |
| r | 6.7±0.25 |  |  |
| W | 8.69-0.09  -0.16 |  |  |
| α | 300 |  |  |

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| **1.3.5** | | **Gear box:** | | |  |  | |
| Type | | | **:** |  | |
| Speed reduction ratio | | | **:** |  | |
| Lubrication | | | **:** |  | |
| Bearing and their location | | | **:** |  | |
| **1.3.6** | | **Hopper:** | | |  |  | |
| Type | | | **:** |  | |
| Size, mm  Length  Width  Slanted length  Height  Thickness | | | **:**  **:**  **:**  **:**  **:** |  | |
| Capacity,  Mass, kg  Volume, m3 | | | **:**  **:** |  | |
| Location | | | **:** |  | |
| **1.3.7** | | **Agitator:** | | |  |  | |
| Type | | | **:** |  | |
| Size, mm  Diameter of disc  Diameter of shaft | | | **:**  **:** |  | |
| Speed of agitator corresponding to 540 PTO rpm | | | **:** |  | |
| **1.3.8** | | **Spreading disc:** | | |  |  | |
| Type | | |  |  | |
| Number | | | **:** |  | |
| Size, mm  Diameter  Thickness | | | **:**  **:** |  | |
| No. of vane | | |  |  | |
| Size of vane, mm  Peripheral length  Width  Thickness  Height from base | | | **:**  **:**  **:**  **:** |  | |
| **1.3.9** | | **Feed control mechanism:** | | |  |  | |
| Type | | | **:** |  | |
| Size of lever, mm  Length  Width  Thickness | | | **:**  **:**  **:** |  | |
| No. of setting for broadcasting | | | **:** |  | |
|  | | Height of spreader disc from ground level, mm  Maximum  Minimum | | | **:**  **:** |  | |
| Method of mounting | | | **:** |  | |
| **1.3.9.1** | | **Quantity adjusting disc mechanism:** | | | | | |
| Type | | | **:** |  | |
| Size (Dia. X Thickness), mm | | | **:** |  | |
| No. of hole aperture | | | **:** |  | |
| Surface area of each opening, mm2 | | | **:** |  | |
| **1.3.9.2** | | **Distribution direction adjustment:** | | |  |  | |
| Type | | | **:** |  | |
| Size of lever (L x W x T), mm | | | **:** |  | |
| No. of adjustment | | | **:** |  | |
| **1.3.10** | | **Overall dimensions, mm:** | | |  |  | |
| Length | | |  |  | |
| Width | | |  |  | |
| height | | |  |  | |
| Mass, kg | | | **:** |  | |
| **1.3.11** | | **Safety mechanism** | | | **:** |  | |
| **1.3.12** | | **Lubricating schedule:** | | |  |  | |
| **1.3.13** | | **Lubricating points:** | | |  |  | |
| Propeller shaft | | | **:** |  | |
| Oiling point | | | **:** |  | |
| Gear Box | | | **:** |  | |
| Total lubricating points | | | **:** |  | |
| **1.4** | | **Labeling plate:** | | |  |  | |
|  | |  | | | | | |
|  |  | |  |  | | |

Date:

Place: Signature:

Name of signatory:

Designation:

Name & address of firm: