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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, mmMaximumMinimum |  |  |
| **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 LengthWidthSlanted lengthHeightThickness | **:****:****:****:****:** |  |
| Capacity, Mass, kgVolume, m3 | **:****:** |  |
| Location | **:** |  |
| **1.3.7** | **Agitator:**  |  |  |
| Type | **:** |  |
| Size, mmDiameter of discDiameter of shaft | **:****:** |  |
| Speed of agitator corresponding to 540 PTO rpm | **:** |  |
| **1.3.8** | **Spreading disc:** |  |  |
| Type |  |  |
| Number | **:** |  |
| Size, mmDiameterThickness | **:****:** |  |
| No. of vane |  |  |
| Size of vane, mmPeripheral lengthWidthThicknessHeight from base | **:****:****:****:** |  |
| **1.3.9** | **Feed control mechanism:** |  |  |
| Type | **:** |  |
| Size of lever, mmLengthWidthThickness | **:****:****:** |  |
| No. of setting for broadcasting | **:** |  |
|  | Height of spreader disc from ground level, mmMaximumMinimum | **:****:** |  |
| 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:** |  |  |
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|  |  |  |  |

Date:

Place: Signature:

 Name of signatory:

Designation:

 Name & address of firm: