|  |
| --- |
|  **SPECIFICATION OF CHAFF CUTTER** |
| **1.1** | **General :-** |  |  |
|  | Name of machine | : |  |
|  | Manufacturer’s name and address | : |  |
|  | Make  | : |  |
|  | Model | : |  |
|  | Type | : |  |
|  | Serial No. | : |  |
|  | Year of manufacture  | : |  |
|  | Country of origin  | : |  |
|  | Suitability of machineRecommended tractor power requirement, hp  | :: |  |
| **1.2** | **Brief specifications of prime mover used** |
|  | Type | **:** |  |
|  | Make and model | **:** |  |
|  | Chassis No. | **:** |  |
|  | Max.PTO power, kW | **:** |  |
|  | No load PTO speed for field operation recommended by applicant, rpm | **:** |  |
| **1.3** | **Towing hook**  |  |  |
|  | Type | **:** |  |
|  | Material | **:** |  |
| **1.4** | **Transport wheels** |  |  |
|  | Type |  |  |
|  | Make |  |  |
|  | No. and size |  |  |
|  | Track width, mm |  |  |
| **1.5** | **Power take off drive shaft** |  |  |
|  | Type | **:** |  |
|  | No. of splines | **:** |  |
|  | Length of shaft, mm |  |  |
|  | ClosedExtended | **:****:** |  |
|  | Mass of shaft, kg | **:** |  |
|  | Provision against overload | **:** |  |
|  | Provision of safety guard on shaft | **:** |  |
|  | Provision for locking  | **:** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **1.6** | **Constructional details : -** |  |  |
| **1.6.1** | **Main frame**  |  |  |
|  | Type | : |  |
|  | Size of frame, mm | : |  |
|  | Material | : |  |
|  | Size of channel, mm | : |  |
| **1.6.1.2** | **Mounting frame for power input shaft**  |  |  |
|  | Constructional detail  | : |  |
|  | Size of M S angle iron, mm  | : |  |
|  | Method of mounting  | : |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **1.6.2** | **Chaff Cutter Assembly**: - |  |  |
| **1.6.2.2** | **Main Power Transmission: -** |
|  | Type | : |  |
|  | Size of drive pulley, (mm) | : |  |
|  | Size of driven pulley , (mm) | : |  |
|  | Type & size of belt | : |  |
|  | Reduction ratio | : |  |
|  | Arrangement for belt tensioning | : |  |
| **1.6.2.3** | **Cutter Head :-** |  |  |
|  | **Fly-wheel** |  |  |
|  | Number  |  |  |
|  | Material  |  |  |
|  | Diameter of fly-wheel, (mm) |  |  |
|  | Thickness of fly-wheel, (mm)  |  |  |
| **1.6.2.3.1** | **Disc :-** |  |  |
|  | Constructional detail | : |  |
|  | Number  | : |  |
|  | Material  | : |  |
|  | Diameter of disc, (mm) | : |  |
|  | Thickness of disc, (mm)  | : |  |
|  | Size of blades, (mm)LengthWidththickness | :::: |  |
|  | No. of holes for mounting blades  | : |  |
|  | Size of holes for mounting blades, (mm) | : |  |
|  | No. of holes for adjusting blade clearance | : |  |
|  | Size of holes for adjusting blade clearance, (mm) | : |  |
|  | Method of Mounting  | : |  |
|  | Provision for locking the fly-wheel | : |  |
| **1.6.2.3.2** | **Blades**  |  |  |
|  | Type  | : |  |
|  | Number of blades  | : |  |
|  | Material of blades (apa) | : |  |
|  | Size of blades, (mm)LengthWidththickness | :::: |  |
|  | Method of mounting | :: |  |
| **1.6.2.3.3** | **Shear plate (Fixed edge): -** |  |  |
|  | Number | : |  |
|  | Material | : |  |
|  | Size, (mm) | : |  |
|  | Method of mounting | : |  |
|  | Recommended clearance between fixed & rotating blades, (mm) | : |  |
|  | Method of clearance adjustment | : |  |
| **1.6.2.4** | **Feeding Assembly: -** |  |  |
| **1.6.2.4.1** | Type |  |  |
|  | Material | : |  |
|  | Size of belt, (mm) | : |  |
|  | No of roller |  |  |
|  | Size of rollerLengthDia. |  |  |
|  | Distance between two roller, mm |  |  |
|  | Method of tensioning of belt  | : |  |
|  | Size of feeding conveyer unitLengthWidthThickness |  |  |
| **1.6.2.4.2** | **Gear Box: -** |  |  |
|  | Type  | : |  |
|  | Material | : |  |
|  | Number of teeth on pinion  | : |  |
|  | Number of teeth on crown | : |  |
|  | No of teeth of gear for upper feed roller  | : |  |
|  | No of teeth of gear for lower feed roller  | : |  |
|  | No of teeth of gear for additional feed roller  | : |  |
|  | No of teeth of gear for conveyer roller  | : |  |
|  | Reduction ratio from PIC of machine to feed roller  | : |  |
|  | Method of power transmission | : |  |
|  | Method of lubrication  | : |  |
|  | Recommended lubricant | : |  |
|  | Capacity, l | : |  |
| **1.6.2.4.3** | **Feed Rollers: -** |  |  |
|  | Number of rollers | : |  |
|  | Type | : |  |
|  | Material | : |  |
|  | Size of upper roller, (mm) | : |  |
|  | Size of lower roller, (mm) | : |  |
|  | Size of additional roller, (mm) | : |  |
|  | Number of teeth & their configuration on upper roller | : |  |
|  | Number of teeth & their configuration on lower roller | : |  |
|  | Number of strips & their configuration on additional roller | : |  |
|  | Pitch of teeth, (mm) | : |  |
|  | Size of upper roller shaft, (mm) | : |  |
|  | Size of lower roller shaft, (mm) | : |  |
|  | Size of additional roller shaft, (mm) | : |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Space between the axes of upper & lower roller shaft, (mm): - | : |  |
|  | - Maximum | : |  |
|  | - Minimum | : |  |
|  | Method of space adjustment | : |  |
|  | Speed of feeding rollers corresponding to 540 Tractor PTO rpm  | : |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **1.6.3** | **Outlets**  |  |  |
|  | No of outlets  | : |  |
|  |  |  |  |  |  |
|  | Size of opening , mmLength,WidthHeightthickness | : |  |  |  |
|  | Height from ground level, mm | : |  |  |  |
| **1.6.4** | **Safety Arrangements**  | : |  |
| **1.6.5** | **Overall Dimensions (mm): -** |
|  | Length | : |  |
|  | Width | : |  |
|  | Height | : |  |
| **1.6.6** | **Mass of Machine (Kg): -** | : |  |
| **1.6.7****1.7** | **Colour of machine****Details of Labeling Plate** | :: |  |

Place: Signature----------------------------------------

Date: Name of the applicant------------------------

 Designation--------------------------------------

 Address-------------------------------------------

 ----------------------------------------------------

 ----------------------------------------------------