**TECHNICAL SPECIFICATIONS OF MOULD BOARD PLOUGH**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 4.1 | **General:** | | | | |
| Name of implement | **:** |  | | |
| Name & address of manufacturer | **:** |  | | |
| Name & address of applicant | **:** |  | | |
| Type of implement | **:** |  | | |
| Make | **:** |  | | |
| Model | **:** |  | | |
| Brand Name | **:** |  | | |
| Year of manufacture | **:** |  | | |
| Serial No | **:** |  | | |
| No. of plough bottoms | **:** |  | | |
| Size of plough, mm | **:** |  | | |
| Recommended source of power, hp/Kw | **:** |  | | |
| 4.2 | **Prime mover used:** | | | | |
| Tractor used during test  (Details as per labeling plate) | : |  | | |
| Make | **:** |  | | |
| Model | **:** |  | | |
| Month and year of manufacture | **:** |  | | |
| Engine serial No | **:** |  | | |
| Chassis Serial No | **:** |  | | |
| Max P.T.O. power, kW (hp) | **:** |  | | |
| Specific fuel consumption corresponding to maximum power, g/kWh | **:** |  | | |
| **4.3** | **Constructional details:** | | | | |
| 4.3.1 | Main Frame: | **:** |  | | |
| Constructional details | **:** |  | | |
| Dimensions, mm | **:** |  | | |
| No. & size of rectangular beam | **:** |  | | |
| No. & size of flats, mm: |  |  | | |
| Number; size & spacing of holes on main frame for fixing each standard, mm | **:** |  | | |
| 4.3.2 | **Standard:** | | | | | **:** |
| Numbers | **:** |  | | |
| Material | **:** |  | | |
| Dimensions, mm | **:** |  | | |
| - Effective length of each standard | **:** |  | | |
| -Thickness of standard flats | **:** |  | | |
|  | No., size & spacing of holes on each standard for fixing frog, mm | **:** |  | | |
| Method of fixing | **:** |  | | |
| **4.3.3** | Plough Bottoms: | **:** |  | | |
| Constructional details | **:** |  | | |
| Numbers | **:** |  | | |
| Type | **:** |  | | |
| Size of bottom, mm | **:** |  | | |
| Vertical suction, mm | **:** |  | | |
| Horizontal suction, mm | **:** |  | | |
| 4.3.3.1 | **Mould Board:** | | | | |
| Type | **:** |  | | |
| Material | **:** |  | | |
| Perimeter, mm | **:** |  | | |
| No. & size of holes on each mould board, mm | **:** |  | | |
| No. size & type of bolts: | **:** |  | | |
| - for share point | **:** |  | | |
| - for frog | **:** |  | | |
| - for brace | **:** |  | | |
| Method of fixing | **:** |  | | |
| 4.3.3.2 | **Mould board extensions (Rear):** | | | | |
| 4.3.3.2.1 | Rear Extension | | | | |
| Type | **:** |  | | |
| Material | **:** |  | | |
| Perimeter, mm | **:** |  | | |
| Thickness, mm | **:** |  | | |
| No. and size of holes, mm | **:** |  | | |
| 4.3.3.2.2 | **Front Extension:** | | | | |
| Type | **:** |  | | |
| Material | **:** |  | | |
| Perimeter, mm | **:** |  | | |
| Thickness, mm | **:** |  | | |
| No. and size of holder, mm | **:** |  | | |
| 4.3.3.3 | **Shin:** | | | | |
| Type | **:** |  | | |
| Material | **:** |  | | |
| Perimeter, mm | **:** |  | | |
| Thickness, mm | **:** |  | | |
| Method of mounting | **:** |  | | |
| **4.3.3.4** | **Share:** | | | | |
| Type | **:** |  | | |
| Material | **:** |  | | |
| Constructional details | **:** |  | | |
| Dimensions, mm | **:** |  | | |
| No. & size of holes on share, mm | **:** |  | | |
| Method of fixing | **:** |  | | |
| **4.3.3.5** | **Share Bar:** | | | | |
| Type | **:** |  | | |
| Material | **:** |  | | |
|  | Size, mm | **:** |  | | |
| Dimensions, mm | **:** |  | | |
| Method of fixing | **:** |  | | |
| **4.3.3.6** | **Land Side:** | | | | |
| Number | **:** |  | | |
| Material | **:** |  | | |
| Thickness, mm | **:** |  | | |
| **Dimensions (mm):** |  | **Front** | | **Rear** |
| -Length | **:** |  |  | |
| -Width | **:** |  |  | |
| -Height | **:** |  |  | |
| Method of fixing | **:** |  | | |
| **4.3.3.7** | **Braces:** | | | | |
| Numbers | **:** |  | | |
| Type | **:** |  | | |
| Material | **:** |  | | |
| Size, mm | **:** |  | | |
| No. & size of holes for each brace, mm | **:** |  | | |
| Length, mm | **:** |  | | |
| Method of fixing | **:** |  | | |
| **4.3.3.8** | **Frog:** | | | | |
| Numbers | **:** |  | | |
| Material | **:** |  | | |
| Constructional Details | **:** |  | | |
| No. & size of holes on frog, mm | **:** |  | | |
| -for mould board | **:** |  | | |
| -for share | **:** |  | | |
| -for standard | **:** |  | | |
| **4.3.4** | **Reversing Mechanism:** | | | | |
| Type | **:** |  | | |
| Method of operation | **:** |  | | |
| **4.4** | **Hydraulic pipe details:** | | | | |
| Make | **:** |  | | |
| Diameter (OD), mm | **:** |  | | |
| Length, mm | **:** |  | | |
| Size of adopter/coupler Dia., mm | **:** |  | | |
| **4.5 4.5**  4.6 | **Ram Cylinder details:** | | | | |
| Overall length, mm | **:** |  | | |
| Piston diameter, mm | **:** |  | | |
| Stroke length, mm | **:** |  | | |
| Distance between hole to hole, mm | **:** |  | | |
| Outer dia. of cylinder, mm | **:** |  | | |
| Inner dia. of cylinder, mm | **:** |  | | |
| Piston (rod) dia., mm | **:** |  | | |
| Length of piston (rod), mm | **:** |  | | |
| Make & model of hydraulic components | **:** |  | | |
| Distributor | **:** |  | | |
| Control valve unit | **:** |  | | |
| Cylinder & piston | **:** |  | | |
|  | Pipe line | **:** |  | | |
| Adopter/Coupler | **:** |  | | |
| **4.7** | **Main Shaft:** | | | | |
| Construction details | **:** |  | | |
| Method of Fixing | **:** |  | | |
| **4.8** | **Hitch Pyramid:** | | | | |
| Construction Details | **:** |  | | |
| **4.8.1** | **Dimensions of hitch of implement as per IS 17231:2019 (Table 4) (Ref. Fig. 4):** | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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 |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **5** | **Overall dimensions (mm):** |  |  |
| Length | **:** |  |
| Width | **:** |  |
| Height | **:** |  |
| **6** | **Mass, kg** | **:** |  |
| **7** | **Colour** | **:** |  |
| **8** | **Labeling plate:** |  |  |
|  |  |  |  |

Date:

Place: Signature:

Name of signatory:

Designation:

Name & address of firm: