1. SPECIFICATIONS

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| **1.1** | **GENERAL:** | | |  | |  |
| Name of implement | | | : | |  |
| Manufacturer | | | : | |  |
| Applicant | | | : | |  |
| Type of implement | | | : | |  |
| Make | | | : | |  |
| Model | | | : | |  |
|  | Brand Name | | | : | |  |
| Year of manufacture | | | : | |  |
| No. of plough bottom(s) | | | : | |  |
| Size of plough, (mm) | | | : | |  |
| Recommended source of power, (hp) | | | : | |  |
| **1.2** | **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) | | | : | |  |
|  | Sfc, g/kwh | | | : | |  |
| **1.3** | **Constructional details :** | | | | | |
| **1.3.1** | **Main Frame:** | | | | | |
|  | Constructional details | | | : | |  |
|  | Dimensions, (mm) | | |  | |  |
| No. & size of rectangular beam | | | : | |  |
| No. & size of flats | | | : | |  |
|  | | Length | : | |  | |
| Width | : | |  | |
| Number; size & spacing of holes on main frame for fixing each standard, (mm) | : | |  | |
| **1.3.2** | | 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 | : | |  | |

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| **1.3.3** | **Plough Bottoms:** |  |  |
|  | Constructional details | : |  |
|  | Numbers | : |  |
| Type | : |  |
| Size of plough, (mm) | : |  |
| Vertical suction, (mm) | : |  |
| Horizontal suction, (mm) | : |  |
| **1.3.3.1** | **Mould Board:** | | |
|  | Type | : |  |
| Material(apa) | : |  |
| 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 | : |  |
| **1.3.3.2** | **Mould board extensions** |  |  |
| **1.3.3.2.1** | **Rear Extension** |  |  |
| Type | : |  |
| Material | : |  |
| Perimeter, (mm) | : |  |
| Thickness, (mm) | : |  |
| No. and size of holes, (mm) | : |  |
| **1.3.3.2.2** | **Front Extension** | : |  |
| **1.3.3.3** | **Shin:-** |  |  |
| Type | : |  |
| Material | : |  |
|  | Perimeter, (mm) | : |  |
| Thickness, (mm) | : |  |
| Method of mounting | : |  |
| **1.3.3.4** | **Share (Refer Fig.2):** | | |
|  | Type | : |  |
| Material | : |  |
| Constructional details | : |  |
| Dimensions, (mm) | : |  |
| No & size of holes on share, (mm) | : |  |
| Method of fixing | : |  |
| **1.3.3.5** | **Share Bar :** |  |  |
|  | Type | : |  |
| Material | : |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Size, (mm) | : |  | | | |
| Dimensions, (mm) | : |  | | | |
| Method of fixing | : |  | | | |
| **1.3.3.6** | Land Side: | | | | | |
|  | Number | : |  | | | |
| Material | : |  | | | |
| Thickness, (mm) | : |  | | | |
|  | Dimensions, (mm) |  |  | | | |
|  |  |  | Parameters | Front | Rear | |
|  |  |  | Length |  |  | |
|  |  |  | Width |  |  | |
|  |  |  | Thickness |  |  | |
|  | Method of fixing | : | Land side is bolted to the frog | | |

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| **1.3.3.7** | Braces: | | |
|  | Numbers | : |  |
| Type | : |  |
| Material (apa) | : |  |
| Size, (mm) | : |  |
| No. & size of holes for each brace, (mm) | : |  |
| Length, (Min/Max.) (mm) | : |  |
| Method of fixing | : |  |
| **1.3.3.8** | **Frog:** | | |
|  | Numbers | : |  |
| Material | : |  |
| Constructional Details | : |  |
| Dimensions, (mm) | : |  |

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| --- | --- | --- | --- | --- |
|  | No. & size of holes on frog (mm) | : |  | |
| -for mould board | : |  | |
| -for share | : |  | |
| -for standard | : |  | |
| **1.3.4** | **Reversing Mechanism:** |  |  | |
|  | Type | : |  | |
|  | Method of operation | : |  | |
| **1.4** | **Hydraulic pipe details :** |  |  | |
|  | Make | : |  | |
|  | Diameter (OD), (mm) | : |  | |
|  | Length, (mm) | : |  | |
|  | Size of adopter/coupler Dia. (mm) | : |  | |
| **1.5** | **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) | : |  | |
| **1.6** | **Make & model of hydraulic components :** |  |  | |
|  | Distributor | : |  | |
|  | Control valve unit | : |  | |
|  | Cylinder & piston | : |  | |
|  | Pipe line | : |  | |
|  | Adopter/Coupler | : |  | |
| **1.7** | **Main Shaft (Refer Fig. 6) :** | | | |
|  | Construction details | : |  |
|  | Method of fixing | : |  |
| **1.8** | **Hitch Pyramid:** |  |  | |
|  | Construction details | : |  | |

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| **Specification of Hitch Pyramid As per IS: 4468 (Pt-I)-1997 (Reaffirmed in 2001): -** | | | | |
| **Notations** | **Specifications** | **Dimensions in mm** | | **Remarks** |
| **As per**  **Is: 4468-1997 (Part-I)**  **(Cat-II) (mm)** | **As measured**  **(mm)** |
| **Upper hitch point** | | | | |
| A | Dia. of hitch pin | 24.37 to 25.50 |  |  |
| B | Dia. of hitch pin hole | 25.7 ± 0.2 |  |  |
| F | Width between inner faces of yoke | 52 (min) |  |  |
| E | Width between outer faces of yoke | 86 (Max) |  |  |
| D | Linch pin hole distance | 76 (Min.) |  |  |
| L | Dia. of linch pin hole | 12 (Min.) |  |  |
| **Lower hitch points** | | | | |
| G | Dia. of hitch pin | 27.8 to 28.0 |  |  |
| K | Linch pin hole distance | 49 (Min.) |  |  |
| L | Dia. of linch pin hole | 12 (Min.) |  |  |
| M | Mast height | 610±1.5 |  |  |
| N | Lower hitch point span | 825 ± 1.5 |  |  |

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| **1.9** | | **Upper hitch point:** | | | | |
|  | | Material | | : | |  |
| Size, (mm) | | : | |  |
| Number & size of holes on upper hitch point | | : | |  |
| Method of fixing | | : | |  |
| **1.10** | | **Depth Wheel:** | | : | |  |
| **1.11** | | | **Overall Dimensions, (mm):** | | | | |
|  | | | |  |  |  | | --- | --- | --- | | Length | : |  | | Width | : |  | | Height | : |  | | | | | |
| **1.12** | | | **Mass of the Implement, (kg)** | | : | |  |
| **1.13** | | | **Color of the Implement** | | : | |  |
| **1.14** | | | **Stand** | | : | |  |
| **1.15** | | | **Marking/Labeling of implement** | | : | |  | |