**SPECIFICATION SHEET OF VERTICAL CONYEYOR REAPER, SELF PROPELLED**

**(SAMPLE FOR BATCH TEST)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **DESCRIPTION** |  | **BASE MODEL**  **(Previous Sample)** |  | **BATCH MODEL**  **(Present sample)** |  | **Remarks** |
| **1** | **General** |  |  |  |  |  |  |
|  | Type of machine | **:** | Self Propelled, Vertical Conveyor Reaper  (Walk Behind) | **:** | Self Propelled, Vertical Conveyor Reaper  (Walk Behind) | **:** | Changed/Not Changed |
|  | Make | **:** | ABC | **:** | ABC | **:** | Changed/Not Changed |
|  | Model | **:** | SPR-100 | **:** | SPR-100 | **:** | Changed/Not Changed |
|  | Name & address of manufacturer | **:** | XXXX | **:** | XXXX | **:** | Changed/Not Changed |
|  | Name & address of applicant | **:** | YYYY | **:** | YYYY | **:** | Changed/Not Changed |
|  | Country of origin | **:** | India/Other country | **:** | India/Other country | **:** | Changed/Not Changed |
|  | Serial Number | **:** | 10167710 | **:** | 10167710 | **:** | Changed/Not Changed |
|  | Effective width of  cutter bar, mm | **:** | 1000 | **:** | 1000 | **:** | Changed/Not Changed |
|  | Year of manufacture | **:** | 2021 | **:** | 2021 | **:** | Changed/Not Changed |
|  | Recommended crop | **:** | Wheat and Paddy | **:** | Wheat and Paddy | **:** | Changed/Not Changed |
| **2** | **Transmission system** |  |  |  |  |  |  |
| **2.1** | **Gear box** |  |  |  |  |  |  |
|  | Type | **:** | Sliding mesh and chain sprocket | **:** | Sliding mesh and chain sprocket | **:** | Changed/Not Changed |
|  | No. of speed | **:** | 02 (1 forward and 1 reverse) | **:** | 02 (1 forward and 1 reverse) | **:** | Changed/Not Changed |
|  | No. of teeth on drive gear  No. of teeth on driven gear | **:**  **:** | 1st Reverse  10 12  50 50 | **:**  **:** | 1st Reverse  10 12  50 50 | **:** | Changed/Not Changed |
|  | Gear reduction | **:** | 1:0.2 1:0.24 | **:** | 1:0.2 1:0.24 | **:** | Changed/Not Changed |
|  | No. of teeth on drive sprocket | **:** | 10 | **:** | 10 | **:** | Changed/Not Changed |
|  | No. of teeth on driven sprocket | **:** | 12 | **:** | 12 | **:** | Changed/Not Changed |
|  | Reduction ratio | **:** | 1.2:1 | **:** | 1.2:1 | **:** | Changed/Not Changed |
|  | Oil change period | **:** | First change after 50 hrs then subsequent change after every 200 hours of operation. | **:** | First change after 50 hrs then subsequent change after every 200 hours of operation. | **:** | Changed/Not Changed |
| **2.2** | **Clutch** |  |  |  |  |  |  |
|  | Make | **:** | ABC | **:** | ABC | **:** | Changed/Not Changed |
|  | Type | **:** | Dog clutch | **:** | Dog clutch | **:** | Changed/Not Changed |
|  | Method of operation | **:** | By hand lever | **:** | By hand lever | **:** | Changed/Not Changed |
| **3** | **Reaper transmission** |  |  |  |  |  |  |
|  | **Reaper clutch** |  |  |  |  |  |  |
|  | Location | **:** | On RHS of steering handle bar | **:** | On RHS of steering handle bar | **:** | Changed/Not Changed |
|  | Type | **:** | Dog clutch | **:** | Dog clutch | **:** | Changed/Not Changed |
| **3.1** | **Reaping gear box** |  |  |  |  | **:** | Changed/Not Changed |
|  | Type | **:** | Bevel pinion reduction gear | **:** | Bevel pinion reduction gear | **:** | Changed/Not Changed |
|  | No. of teeth on drive gear | **:** | 18 | **:** | 18 | **:** | Changed/Not Changed |
|  | No. of teeth on driven gear | **:** | 33 | **:** | 33 | **:** | Changed/Not Changed |
|  | No. of teeth on bevel pinion (drive) | **:** | 17 | **:** | 17 | **:** | Changed/Not Changed |
|  | No. of teeth on drive gear | **:** | 28 | **:** | 28 | **:** | Changed/Not Changed |
|  | Reduction ratio | **:** | 1.65:1 | **:** | 1.65:1 | **:** | Changed/Not Changed |
| **3.2** | **Final drive** |  |  |  |  |  |  |
|  | Type | **:** | Chain and sprocket | **:** | Chain and sprocket | **:** | Changed/Not Changed |
|  | No. of teeth of drive sprocket | **:** | 9 | **:** | 9 | **:** | Changed/Not Changed |
|  | No. of teeth of driven sprocket | **:** | 17 | **:** | 17 | **:** | Changed/Not Changed |
|  | Reduction ratio | **:** | 1.89:1 | **:** | 1.89:1 | **:** | Changed/Not Changed |
|  | Oil change period | **:** | First change after 50 hrs subsequently after 200 hrs of operation | **:** | First change after 50 hrs subsequently after 200 hrs of operation | **:** | Changed/Not Changed |
| **4** | **Cutting mechanism** |  |  |  |  |  |  |
| **4.1** | **Cutter bar assembly** |  |  |  |  |  |  |
|  | Working width, mm | **:** | 1000 | **:** | 1000 | **:** | Changed/Not Changed |
|  | No. & spacing of knife  blades, mm | **:** | 24 (12 Pairs) | **:** | 24 (12 Pairs) | **:** | Changed/Not Changed |
|  | Material of knife section | **:** | High carbon steel EN42J or above | **:** | High carbon steel EN42J or above | **:** | Changed/Not Changed |
|  | Material of knife back | **:** | High carbon steel EN42J or above | **:** | High carbon steel EN42J or above | **:** | Changed/Not Changed |
|  | Material of ledger plate | **:** | High carbon steel EN44J or above | **:** | High carbon steel EN44J or above | **:** | Changed/Not Changed |
|  | Provision for adjustment the height of cutter bar. | **:** | Provided/  Not provided | **:** | Provided/  Not provided | **:** | Changed/Not Changed |
|  | Slip clutch/Safety Pins at cutter bar drive | **:** | Provided/  Not provided | **:** | Provided/  Not provided | **:** | Changed/Not Changed |
| **5** | **Crop divider** |  |  |  |  |  |  |
|  | Type | **:** | Shoe | **:** | Shoe | **:** | Changed/Not Changed |
|  | Number | **:** | 5 | **:** | 5 | **:** | Changed/Not Changed |
| **6** | **Crop guide (star) wheel** |  |  |  |  | **:** | Changed/Not Changed |
|  | No. of wheels | **:** | 4 | **:** | 4 | **:** | Changed/Not Changed |
|  | Material | **:** | Plastic | **:** | Plastic | **:** | Changed/Not Changed |
|  | Dia. of wheel, mm | **:** | 275 | **:** | 275 | **:** | Changed/Not Changed |
|  | Provision of row maker/crop guide | **:** | Provided/  Not provided | **:** | Provided/  Not provided | **:** | Changed/Not Changed |
| **7** | **Crop conveyor** |  |  |  |  |  |  |
|  | Number of conveyor | **:** | Two row (upper & lower) | **:** | Two row (upper & lower) | **:** | Changed/Not Changed |
|  | Type | **:** | Chain & sprocket | **:** | Chain & sprocket | **:** | Changed/Not Changed |
|  | Provision for tensioning | **:** | Provided/Not provided | **:** | Provided/Not provided | **:** | Changed/Not Changed |
|  | Slip clutch/Safety pins at conveyor drive | **:** | Provided/  Not provided | **:** | Provided/  Not provided | **:** | Changed/Not Changed |
| **8** | **Steering handle bar** |  |  |  |  |  |  |
|  | No. of steering handle bar | **:** | Two | **:** | Two | **:** | Changed/Not Changed |
|  | Shape | **:** | U shape | **:** | U shape | **:** | Changed/Not Changed |
|  | Material | **:** | M.S. pipe | **:** | M.S. pipe | **:** | Changed/Not Changed |
|  | Dia. of pipe, mm | **:** | 26.3 | **:** | 26.3 | **:** | Changed/Not Changed |
|  | Provision for handle rotation | **:** | Provided/  Not provided | **:** | Provided/  Not provided | **:** | Changed/Not Changed |
|  | Provision for handle height adjustment | **:** | Provided/  Not provided | **:** | Provided/  Not provided | **:** | Changed/Not Changed |
| **9** | **Controls/ Safetys** |  |  |  |  |  |  |
| i) | Hand accelerator |  |  |  |  | **:** | Provided/Not provided |
| ii) | Reaper drive engaging & disengaging lever | | |  |  | **:** | Provided/Not provided |
| iii) | Main clutch engaging lever |  |  |  |  | **:** | Provided/Not provided |
| iv) | Gear shifting lever. |  |  |  |  | **:** | Provided/Not provided |
| v) | Handle bar looking lever |  |  |  |  | **:** | Provided/Not provided |
| vi) | Chain & sprocket cover |  |  |  |  | **:** | Provided/Not provided |
| vii) | Guards against all moving parts/drives and hot parts | | |  |  | **:** | Provided/Not provided |
| **10** | **Overall dimensions (m)** |  |  |  |  |  |  |
|  | Length | **:** | 2200 | **:** | 2200 | **:** | Changed/Not Changed |
|  | Width | **:** | 1500 | **:** | 1500 | **:** | Changed/Not Changed |
|  | Height | **:** | 1200 | **:** | 1200 | **:** | Changed/Not Changed |
|  | Mass, Kg | **:** | 150 | **:** | 150 | **:** | Changed/Not Changed |
| **11** | **Lubricants** |  |  |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| Sr. No. | Particulars | Grade of oil/Grease |
| 1. | Engine sump | SAE-20W40 |
| 2. | Main Transmission | SAE-90 |
| 3. | Reaping gear box | Servo Grease or SAE-90 |
| 4. | Final Drive | SAE 20W40 |

|  |  |  |  |
| --- | --- | --- | --- |
| **14** | **Marking/Lebeling of machine** | **:** | The labeling plate should be riveted on the body of machine having name & address of manufacturer, country of origin, make, model, year of manufacture, serial number, type, size, required size of prime mover kW, |

Place:

Date:

Signature------------------------------

Name of applicant-------------------

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

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