

व्यावसायिक परीक्षण रिपोर्ट  
COMMERCIAL TEST REPORT  
(FIRST BATCH TEST)

संख्या / No: Machine-332/1130  
माह / Month: March, 2020  
Validity: 28.02.2025



**SHRACHI SPR 1200 PADDY REAPER**



भारत सरकार

Government of India

कृषि एवं किसान कल्याण मंत्रालय

Ministry of Agriculture and Farmers Welfare

कृषि, सहकारिता एवं किसान कल्याण विभाग

Department of Agriculture, Cooperation and Farmers Welfare

दक्षिणी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

Southern Region Farm Machinery Training and Testing Institute

ट्रैक्टर नगर, गार्लदिन्ने-515 731, जिला: अनंतपुर (आं. प्र.)

Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)

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| <b>Machine-332/1130</b> | <b>SHRACHI SPR 1200 PADDY REAPER</b> | <b>COMMERCIAL<br/>(First Batch Test)</b> |
|-------------------------|--------------------------------------|--|

Manufacturer : M/s. Likuang Mechanical & Industrial Works Co. Ltd., No. 155, Chung Hsiao 2nd, Chia Yi City, Taiwan R.O.C-600

Applicant : M/s. BTL EPC LTD,  
No.2, Jessore Road, Dum Dum,  
Kolkata - 700 028, West Bengal,  
**INDIA.**

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- iv) The average mass of grains recovered was recorded as 6737 to 8476 kg/ha.

#### **17.11.2 Quality of work:**

- i) The average post harvest loss was recorded as 0.06 to 0.08 %.
- ii) The average stubble height was recorded as 86.8 to 99.6 mm.
- iii) The crop harvested by the machine is left in windrows, which minimizes the time required for the collection and transportation of the crop.

**17.12** One skilled operator can operate the machine continuously for about two hours only. Hence, two skilled operators are required to operate the machine continuously and two unskilled labours for cutting of the crop on sides and corners of the field to be harvested.

#### **17.13 Wear of critical components:**

- i) The wear rate of cutter bar on mass basis was recorded as 0.002 % per hour.
- ii) Hardness of movable & stationary blade conforms to the requirement of IS 6025:1982 (Reaffirmed 1999).
- iii) Manganese content in moveable blade and carbon & manganese content in fixed blade are not conforming to the requirement of relevant code. Therefore, this should be taken care for corrective action.

#### **17.14 Provision for safety:**

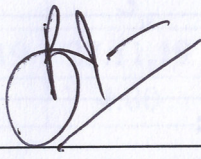
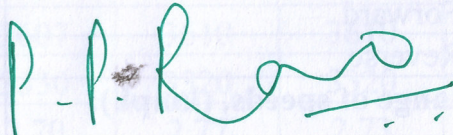
- i) A safety pin at driven sprocket of conveyor chain is provided to take of overloading of cutter bar.
- ii) Guards against all moving parts/drives and hot parts are provided

|                  |                               |                                  |
|------------------|-------------------------------|----------------------------------|
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### 17.15 Technical literature:

The Operational and Service Manual and spare parts catalogue for Engine, Operational and Service Manual and spare parts catalogue for reaper provided in separate booklets were supplied with the reaper for reference during the test. It is however, recommended that same may be revised and bought out in Hindi & other regional languages as per IS 8132 : 1999 (Reaffirmed 2004) for the sake of user & technical personnel.

#### TESTING AUTHORITY:

|                                     |  |
|-------------------------------------|--|
| B.N. DIXIT<br>AGRICULTURAL ENGINEER |  |
| Dr. P.P. RAO<br>DIRECTOR            |  |

### 18. COMPARISON WITH SPECIFICATION AND PERFORMANCE CHARACTERISTICS OF PREVIOUS SAMPLE (Test Report No. Machine-23/364, August, 2012 of SRFMTTI, Garladinne) and PRESENT SAMPLE

| Sl. No.       | Parameter                      | Previous Sample                    | Present Sample                   |
|---------------|--------------------------------|------------------------------------|----------------------------------|
| 1             | 2                              | 3                                  | 4                                |
| <b>18.1</b>   | <b>Specification:</b>          |                                    |                                  |
| <b>18.1.1</b> | <b>PADDY REAPER :</b>          |                                    |                                  |
|               | Make                           | : SHRACHI                          | SHRACHI                          |
|               | Model                          | : SPR 1200                         | SPR 1200                         |
|               | Type                           | : Self-propelled; Walk behind type | Self-propelled; Walk behind type |
| <b>18.1.2</b> | <b>Engine:</b>                 |                                    |                                  |
|               | Make                           | : Honda                            | Honda                            |
|               | Model                          | : GX 120                           | GX 120                           |
|               | Bore/stroke, (mm)              | : 60/42                            | 60/42                            |
|               | Specified cubic capacity, (cc) | : 118                              | 118                              |
|               | Rated engine speed, (rpm)      | : 1800                             | 1800                             |
| <b>18.1.3</b> | <b>Fuel system:</b>            |                                    |                                  |
|               | Make & model of fuel filters   | : Not provided                     | Not provided                     |
|               | Make & model of Carburetor     | : Honda                            | Honda                            |
|               | Make & model of spark plug     | : BP5ES-NGK                        | BP5ES-NGK                        |
|               | Make & model of governor       | : Honda                            | Honda                            |