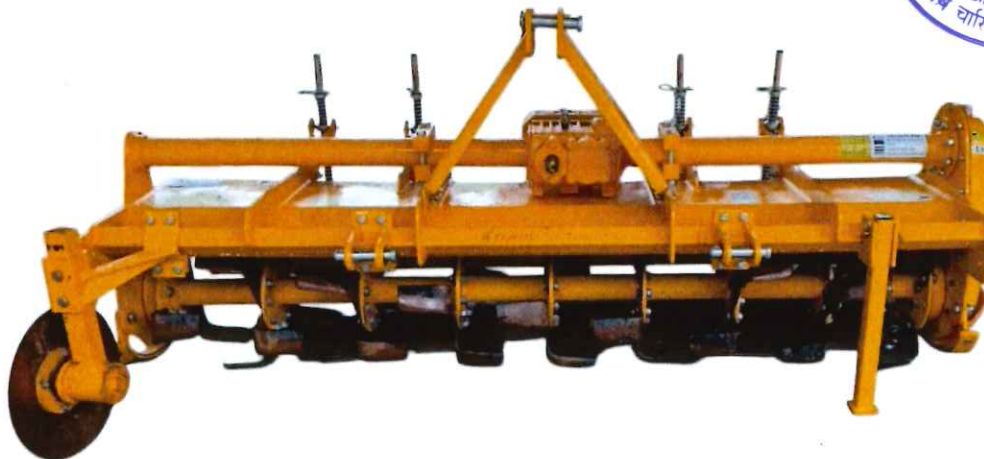




THIS TEST REPORT IS VALID UPTO 30.06.2032



SWAN AGRO, NSML DT 200, ROTAVATOR



भारत सरकार

GOVERNMENT OF INDIA

कृषि एवं किसान कल्याण मंत्रालय

MINISTRY OF AGRICULTURE AND FARMERS WELFARE

कृषि एवं किसान कल्याण विभाग

DEPARTMENT OF AGRICULTURE AND FARMERS WELFARE

उत्तर पूर्वी क्षेत्र कृषि यंत्र प्रशिक्षण एवं परीक्षण संस्थान

NORTH EASTERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE

बिश्वनाथ चारिआलि, जिला - बिश्वनाथ(असम)

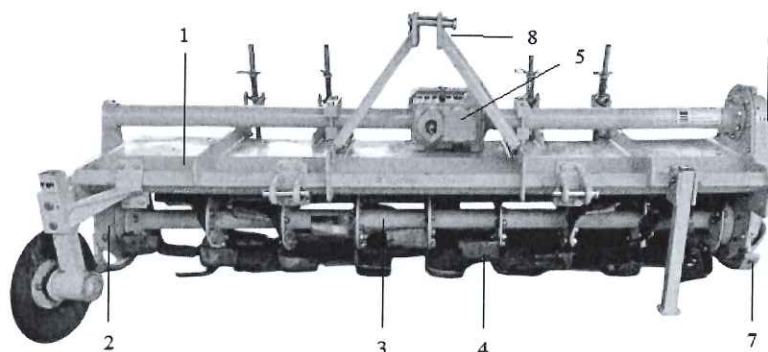
BISWANATH CHARIALI, DIST- BISWANATH, ASSAM, PIN - 784 176

[AN ISO 9001:2015 CERTIFIED INSTITUTION]

| | |
|---------------------------------------|--|
| Type | : Multi speed, Gear drive, Centrally mounted |
| Make | : SWAN AGRO |
| Model | : NSML DT 200 |
| Year of manufacture | : 2025 |
| Serial Number | : 1051217 |
| Recommended power source, hp | : Tractor- 40 hp and above |
| Type of blade | : Hatchet (L-Shaped) |
| Size (cm) {Rotor Dia.× Working width} | : 45 x 201 |

4.2 Prime Mover Used:

| | |
|---------------------|-------------------|
| Tractor | : SWARAJ 855 FE |
| Chassis No. | : QUCL61618127164 |
| Engine no. | : 47.1402/SML5041 |
| Max. PTO Power (kW) | : 41.0 |

**4.3 Constructional Details (Refer Fig.1) :****Fig.1 ROTARY TILLER (ROTAVATOR), Model: NSML DT 200****KEY WORDS:**

- | | |
|----------------|---------------------------------|
| 1. Main frame | 5. Primary reduction gear box |
| 2. Side plate | 6. Secondary reduction gear box |
| 3. Rotor shaft | 7. Skid |
| 4. Rotor blade | 8. Hitch pyramid |

4.3.1 Main Frame:

| | |
|--|---|
| Type | : Fabricated from MS sheet, MS square pipe and M.S Plate. |
| Size of box section (mm) | : 2120 x 50 x 50.5 |
| Size of supporting flat (mm) {R.H.S and L.H.S} | : 550 x 165 x 8.2 and 550 x 165 x 8.2 |
| Type of mounting of box section | : Two Nos. of MS flat were bolted with the help of 4 nos. of bolts & nuts at LHS and 6 nos. at RHS. |

Summary of Field Performance Test

| Sr. No. | Parameters/operations | Wet land operation (Puddling) | Dry land operation |
|---------|---|-------------------------------|--------------------|
| 1 | 2 | 3 | 4 |
| 1 | Gear Used | L-2 | L-2 |
| 2 | Engine speed (rpm) | | |
| | No load | 1812 to 1815 | 1812 to 1818 |
| | On load | 1755 to 1758 | 1768 to 1776 |
| 3 | Type of soil | Medium | |
| 4 | Depth of standing water (cm)/ soil moisture (%) | 10.12 | 8.10 to 13.23 |
| 5 | Bulk density of soil (g/cc) | -- | 1.45 to 1.56 |
| 6 | Speed of operation (kmph) | 2.14 to 2.24 | 2.86 to 2.93 |
| 7 | Travel reduction (%) / Wheel slip (%) | -1.02 to -2.27 | -1.02 to -1.35 |
| 8 | Depth of puddle (cm)/ Depth of cut (cm) | 28.24 to 28.93 | 10.04 to 10.20 |
| 9 | Working width (cm) | -- | 206 to 213 |
| 10 | Area covered (ha/h) | 0.47 to 0.48 | 0.52 to 0.55 |
| 11 | Time required for one ha (h) | 2.09 to 2.13 | 1.81 to 1.92 |
| 12 | Puddling Index (%) / Field efficiency (%) | 89.6 to 90.2 | 85.22 to 91.01 |
| 13 | Power requirement, kW | NR | 25.68 to 28.20 |
| 14 | Fuel consumption | | |
| | l/h | 3.30 to 3.35 | 4.95 to 5.18 |
| | l/ha | 6.90 to 7.14 | 8.96 to 9.97 |

7.1 Wet land operation :

The tractor was operated without cage wheel for puddling operation of rotary tiller (rotavator).

7.1.1 Quality of work :

- The depth of puddle was recorded as 28.24 to 28.93 cm.
- The puddling index was recorded as 89.6 to 90.2 %.

7.2 Dry land operation :

7.2.1 Rate of work :

- The rate of work was recorded as 0.52 to 0.55 ha/h and the speed of operation was recorded as 2.86 to 2.93 kmph.
- The time required to cover one hectare was recorded as 1.81 to 1.92 h.

7.2.2 Quality of work :

- The depth of cut was recorded as 10.04 to 10.20 cm.
- Working width was observed as 206 to 213 cm.
- Field efficiency was observed as 85.22 to 91.01%.



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7.3 Effectiveness of sealing for wet land operation:

After completion of field test in wet land, the rotavator was dismantled for checking the effectiveness of sealing provided against ingress of mud and/or water in various sub-assemblies/components. The observations are given in ensuing Table:

| Sr. No. | Location | Whether ingress of mud and/or water was observed (Yes/No) |
|---------|------------------------------|---|
| 1 | Primary reduction gear box | No |
| 2 | Secondary reduction gear box | No |
| 3 | Rotor axle bearing cap | No |

7.4 Labour requirement :

One skilled operator is needed to operate the tractor with the rotavator.

7.5 Adequacy of power of prime mover as used during test :

The power of the prime mover as used during test was found adequate.

7.6 Wear analysis of rotary blade:

7.6.1 On mass basis :

Wear analysis on mass basis was done after 36.02 hours (wet land and dry land operation) and the results are as shown below,

| Wet land & dry land Operation | | | | |
|-------------------------------|------------------|----------------|--------------------|----------|
| Sr. No. | Initial Mass (g) | Final Mass (g) | Percentage of Wear | |
| | | | After 36.02 hours | Per Hour |
| 1 | 1028 | 919 | 10.60 | 0.29 |
| 2 | 1051 | 976 | 7.14 | 0.20 |
| 3 | 1026 | 946 | 7.80 | 0.22 |
| 4 | 1036 | 940 | 9.27 | 0.26 |
| 5 | 1030 | 949 | 7.86 | 0.22 |
| 6 | 1022 | 925 | 9.49 | 0.26 |
| 7 | 1010 | 932 | 7.72 | 0.21 |
| 8 | 1025 | 941 | 8.20 | 0.23 |
| 9 | 1063 | 970 | 8.75 | 0.24 |

The hourly rate of wear of blade on mass basis after wet land & dry land operations was recorded as 0.20 to 0.29 %.



7.6.2 On dimensional basis (Refer Fig. 7):

Wear analysis of rotary blades on dimensional basis was done after 36.02 hours of wet land and dry land operation and the results are as shown below,

| Sr. No. | Blade width at every 50 mm from outer end | | | | | | | | | | | | Percentage wear | | | |
|---------|---|-------|-------|-------|-------|-------|-------|-------|-----------------|-------|------|------|-----------------|------|------|------|
| | Initial | | | | Final | | | | After 36.22hour | | | | Per hour | | | |
| | A | B | C | D | A | B | C | D | A | B | C | D | A | B | C | D |
| 1 | 79.70 | 84.94 | 84.38 | 84.53 | 67.08 | 72.90 | 80.55 | 83.85 | 15.83 | 14.17 | 4.54 | 0.80 | 0.44 | 0.39 | 0.13 | 0.02 |
| 2 | 79.64 | 82.15 | 82.04 | 83.07 | 70.75 | 72.77 | 79.01 | 82.82 | 11.16 | 11.42 | 3.69 | 0.30 | 0.31 | 0.32 | 0.10 | 0.01 |
| 3 | 80.09 | 83.48 | 83.29 | 83.53 | 70.13 | 74.27 | 79.29 | 82.95 | 12.44 | 11.03 | 4.80 | 0.69 | 0.35 | 0.31 | 0.13 | 0.02 |
| 4 | 77.24 | 83.27 | 83.20 | 83.32 | 67.08 | 72.76 | 78.47 | 82.45 | 13.15 | 12.62 | 5.69 | 1.04 | 0.37 | 0.35 | 0.16 | 0.03 |
| 5 | 80.84 | 83.04 | 83.72 | 84.70 | 70.46 | 73.95 | 79.15 | 84.51 | 12.84 | 10.95 | 5.46 | 0.22 | 0.36 | 0.30 | 0.15 | 0.01 |
| 6 | 77.76 | 82.64 | 83.19 | 84.10 | 67.32 | 72.00 | 79.19 | 83.55 | 13.43 | 12.88 | 4.81 | 0.65 | 0.37 | 0.36 | 0.13 | 0.02 |
| 7 | 78.11 | 83.34 | 83.42 | 84.04 | 69.51 | 74.55 | 81.86 | 83.65 | 11.01 | 10.55 | 1.87 | 0.46 | 0.31 | 0.29 | 0.05 | 0.01 |
| 8 | 77.63 | 84.02 | 83.83 | 83.67 | 67.13 | 73.00 | 80.64 | 82.90 | 13.53 | 13.12 | 3.81 | 0.92 | 0.38 | 0.36 | 0.11 | 0.03 |
| 9 | 79.56 | 83.75 | 84.02 | 85.00 | 64.47 | 69.98 | 81.90 | 83.98 | 18.97 | 16.44 | 2.52 | 1.20 | 0.53 | 0.46 | 0.07 | 0.03 |
| Average | | | | | | | | | | | | | 0.38 | 0.31 | 0.16 | 0.02 |

The hourly rate of wear of blade on dimensional basis after wet land & dry land operations was recorded as 0.02 to 0.38 %.



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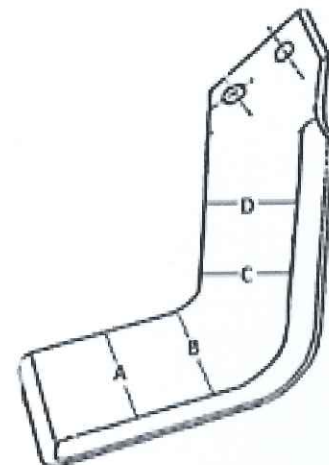


Fig. 7 DIMENSIONS OF BLADE FOR WEAR ANALYSIS

8. EASE OF OPERATION AND ADJUSTMENTS

The operator can easily adjust and control the rotavator from operator's seat in the field as the adjustments are within the easy reach of operator. However the operator has to get down from the tractor in order to raise/lower the depth adjusting skids.

9. DEFECTS, BREAKDOWNS AND REPAIRS

No breakdown was occurred during 36.02 hours of field performance test (wet land and dry land operation)

10. PARAMETERS APPLICABLE FOR QUALIFYING MINIMUM PERFORMANCE CRITERIA

| Sr. No | Characteristics | Category Evaluative/ Non Evaluative | Requirement | Tolerance | As Observed | Whether meets the requirements (Yes/ No) |
|--------|--|-------------------------------------|---|-----------|-------------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | Field Performance | | | | | |
| i | Suitability for wet land operation | Evaluative | Should be suitable for wet land operation | -- | Suitable | Yes |
| ii | Depth of cut in dry land operation (cm) | Evaluative | Minimum 10 cm | -- | 10.04 to 10.20 cm | Yes |
| iii | Depth of puddle in wet land operation (cm) | Evaluative | Minimum 12 cm | -- | 28.24 to 28.93 cm | Yes |

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|-----|--|----------------|--|----|-----------------------------|-----|
| iv | Field Efficiency (%) | Evaluative | Minimum 75 % | -- | Average 88.12 % | Yes |
| v | Puddling Index (%) | Evaluative | Minimum 65 % | -- | Average 89.90 % | Yes |
| 2 | Safety Requirements | | | | | |
| i | Safety considerations | Evaluative | Should meet the requirement of IS:10740 and IS:10318 | -- | Provided | Yes |
| ii | Safety Clutch/ device (shear bolt) in PTO drive shaft | Evaluative | Should be provided | -- | Provided | Yes |
| iii | Rotavator Stand | Evaluative | Should be provided | -- | Provided | Yes |
| iv | Rotavator shield to prevent flying of mud and stone | Evaluative | Should be provided | -- | Provided | Yes |
| v | Guard over propeller shaft | Evaluative | Should be provided | -- | Provided | Yes |
| 3 | Effectiveness of sealing (presence of ingress of dust and water/ mud in various sub-assemblies) | | | | | |
| i | Primary reduction gear/ box | Evaluative | No ingress of mud and water | -- | No ingress of mud and water | Yes |
| ii | Secondary reduction gear/box | Evaluative | No ingress of mud and water | -- | No ingress of mud and water | Yes |
| iii | Rotary axle bearing cap | Evaluative | No ingress of mud and water | -- | No ingress of mud and water | Yes |
| 4 | Material of construction | | | | | |
| i | Hardness of blades | Evaluative | High carbon steel, boron steel | -- | Does not conform | No |
| ii | Chemical composition of rotor blades | Evaluative | As per IS:6690 | -- | Does not conform | No |
| 5 | Dimensional requirements | | | | | |
| i | Dimension of three point linkage | Non-Evaluative | Should meet IS:4468 (part -I) | -- | Does not conform | No |
| ii | Dimension of PIC of Implements | Non-Evaluative | Should meet IS:4931 | -- | Does not conform | No |
| iii | Dimensions of PIC yoke bore | Non-Evaluative | Should meet IS:4931 | -- | Conform | Yes |
| 6 | Literature (Submission to test agency) | | | | | |
| i | Operator cum service manual and part catalogue | Evaluative | Should be provided as per IS:8132 | -- | Provided. | Yes |



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| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|------|---|---|--|-------------|--|-----|
| 7 | Labelling of Rotavator(provision of labelling plate) as mentioned below and should be welded on rotary tiller (Rotavator) | | | | | |
| | Parameter | | | | | |
| i | Name and address of the manufacturer |  | Should be provided on rotary tiller (Rotavator) | -- | Provided | Yes |
| ii | Make | | | -- | Provided | Yes |
| iii | Model | | | -- | Provided | Yes |
| iv | Size, (m) {Dia of Rotor X Width of Cut} | | | -- | Provided | Yes |
| v | Country of origin | | | -- | Provided | Yes |
| vi | Year of manufacture | | | -- | Provided | Yes |
| vii | Chassis Serial Number | | | -- | Provided | Yes |
| viii | Recommended PTO speed of Prime mover(rpm) | | | -- | Provided | Yes |
| ix | Maximum PTO power requirement, kW | | | -- | Provided | Yes |
| 8 | Category of Breakdowns/ Defects | | | | | |
| | Category of breakdowns | Category Evaluative/ Non Evaluative | Requirements | As Observed | Whether meets the requirements (Yes/ No) | |
| i | Critical breakdown | Evaluative | No critical breakdown | None | Yes | |
| ii | Major breakdown | Evaluative | Not more than one and neither of them should be repetitive in nature. | None | Yes | |
| iii | Minor breakdowns | Evaluative | Not more than three and frequency of each should not be more than two. | None | Yes | |
| iv | Total breakdowns | Evaluative | In no case, the total no of breakdown should exceed four, i.e. (1 major + 3 minor) or 4 minor breakdowns | None | Yes | |

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11. CRITICAL TECHNICAL SPECIFICATIONS
(Vide Ministry's letter No. 13-9/2019-(M&T) (I&P)-Part dated 26.04.2019)

| Sr. No. | Parameters | Specifications | Observation | Remarks |
|---------|--|---|------------------|-------------------------|
| 1 | 2 | 3 | 4 | 5 |
| 1 | Working width (mm) | 1200 (Min.) | 2010 | Conforms |
| 2 | Type of blade | C/L/J shape as per demand | L | Conforms |
| 3 | Overlap, mm | 15 (Min.) | 15.4 | Conforms |
| 4 | Thickness of blade (mm) | 7-8 (Min.) | 7.75 | Conforms |
| 5 | No. of Blades | 30 (Min.) | 54 | Conforms |
| 6 | Total number of flange | 5 (Min.) | 10 | Conforms |
| 7 | Number of blades per flange | 6 (Max.) | 6 | Conforms |
| 8 | Outer Diameter of rotor shaft, mm | 75-90 | 73.5 | Does not conform |
| 9 | Rotor diameter, including flange and blade mounted on flange, mm | 425 (Min.) | 460 | Conforms |
| 10 | Side Drive | Gear drive | Gear drive | Conforms |
| 11 | Depth control mechanism | Arc shaped skid on both side of rotavator | Provided | Conforms |
| 12 | Material of blades | Boron (28MnCrB5) / High Carbon Steel EN42) | Boron (28MnCrB5) | Conforms |
| 13 | Hardness of Blade Material, HRC | 38 (Min.) | 44 | Conforms |
| 14 | Safety clutch / device (Shear bolt) in PTO drive shaft | Must be provided | Provided | Conforms |
| 15 | Rotavator stand | Must be provided | Provided | Conforms |
| 16 | Guard over propeller shaft | Must be provided | Provided | Conforms |
| 17 | Sheet metal | AS36 / IS 2062 | As per IS 2062 | Conforms |
| 18 | Marking/labeling of machine | The labeling plate should be riveted on the body of machine having Name and address of manufacturer, Country of origin, Make, Model, Year of manufacturer, Serial number, Type, Size, required size of prime mover (kW) | Provided | Conforms |

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| 1 | 2 | 3 | 4 | 5 |
|----|------------|--|----------|----------|
| 19 | Literature | Operator manual, Service manual and Parts catalogue should be provided. | Provided | Conforms |

12. COMMENTS AND RECOMMENDATIONS

- 12.1 Dimensions of Three point linkage of the rotavator does not conform to IS: 4468-1997 (Part-1) and it should be looked into for corrective action.
- 12.2 Dimensions of PIC of the rotavator does not conform to IS: 4931-1995 and it should be looked into for corrective action.
- 12.3 The hardness and chemical composition of rotary blades does not conform to the requirement of IS 6690:1981 (Reaffirmed 2022). This may be looked into for corrective action.
- 12.4 The outer diameter of rotor shaft does not conform to critical technical specifications vide Ministry's letter No. 13-9/2019-(M&T) (I&P)-Part dated 26.04.2019. This should be looked into for corrective action.

TESTING AUTHORITY



(M.R. PATIL)
SENIOR AGRICULTURAL ENGINEER

P. K. Kamalabai
(P. KAMALABAI)
DIRECTOR

Draft test report compiled by Shri Rahul, Senior Technical Assistant

13. APPLICANT'S COMMENTS

| Para No. | Our Reference | Applicants Comments |
|----------|---------------|---|
| 13.1 | 12.1 | For further production we shall take appropriate action to improve the same as per IS: 4468-1997 in future. |
| 13.2 | 12.2 | For further production we shall take appropriate action to improve the same as per IS: 4931-1995 in future. |
| 13.3 | 12.3 | We will try to improve material & Hardness. |
| 13.4 | 12.4 | For further production we shall take appropriate action for Dia. of rotor shaft. |

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ANNEXURE-I

FIELD PERFORMANCE RESULTS (WET LAND OPERATION)

Place of test: Village-Raina, Dist. -Ludhiana, Punjab

Tractor used: SWARAJ 855 FE

| Sr. No. | Parameters | Test trails | | Avg. |
|---------|----------------------------------|-------------|------------|-------|
| | | I | II | |
| 1 | Date of test | 23.05.2025 | 23.05.2025 | -- |
| 2 | Net test duration (h) | 5.05 | 5.17 | -- |
| 3 | Gear used | L-2 | | |
| 4 | Engine speed (rpm) | | | |
| | No load | 1812 | 1815 | 1814 |
| | On load | 1758 | 1755 | 1757 |
| 5 | Type of Soil | Medium | | |
| 6 | Av. depth of standing water (cm) | 10.12 | 10.12 | 10.12 |
| 7 | Previous treatment | Nil | | |
| 8 | Forward speed (kmph) | 2.14 | 2.24 | 2.19 |
| 9 | Av. travel reduction (%) | -2.27 | -1.02 | -1.65 |
| 10 | Av. wheel sinkage (cm) | 32.42 | 33.17 | 32.80 |
| 11 | Av. depth of puddle (cm) | 28.24 | 28.93 | 28.59 |
| 12 | Water over puddle (cm) | 4.18 | 4.24 | 4.21 |
| 13 | Puddling index (%) | 90.2 | 89.6 | 89.90 |
| 14 | Fuel consumption (l/h) | 3.35 | 3.30 | 3.33 |
| 15 | Area covered(ha/h) | 0.47 | 0.48 | 0.48 |
| 16 | Time required for one ha (h) | 2.13 | 2.09 | 2.11 |



| | | |
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ANNEXURE-II

FIELD PERFORMANCE RESULTS (DRYLAND OPERATION)

Place of test: Village- Kanech, Dist. Ludhiana, Punjab

Tractor used: SWARAJ 855 FE

| Sr. No. | Parameters | I | II | III | IV | Avg. |
|---------|------------------------------|----------|----------|----------|----------|-------|
| 1 | Date of test | 17.05.25 | 18.05.25 | 19.05.25 | 20.05.25 | -- |
| 2 | Net test duration (h) | 7.20 | 7.60 | 7.75 | 3.25 | -- |
| 3 | Gear used | L-2 | | | | |
| 4 | Engine speed (rpm) | | | | | |
| | No load | 1812 | 1815 | 1817 | 1818 | 1816 |
| | On load | 1768 | 1768 | 1776 | 1774 | 1772 |
| 5 | Furrow length (m) | 138 | 80 | 92 | 99.2 | 102.3 |
| 6 | Type of soil | Medium | | | | |
| 7 | Bulk density (g/cc) | 1.56 | 1.56 | 1.47 | 1.45 | 1.51 |
| 8 | Soil Moisture (%) | 13.23 | 11.30 | 10.35 | 8.10 | 10.75 |
| 9 | Previous treatment | Nil | | | | |
| 10 | Forward speed, (kmph) | 2.86 | 2.91 | 2.93 | 2.93 | 2.91 |
| 11 | Wheel slippage (%) | -1.02 | -1.11 | -1.35 | -1.32 | -1.20 |
| 12 | Av. Depth of cut (cm) | 10.20 | 10.04 | 10.08 | 10.07 | 10.10 |
| 13 | Av. Width of cut (cm) | 213 | 206 | 207 | 206 | 208 |
| 14 | Soil pulverization (cm) | 1.05 | 1.10 | 1.32 | 1.25 | 1.18 |
| 15 | Area covered (ha/h) | 0.52 | 0.52 | 0.55 | 0.53 | 0.53 |
| 16 | Power requirement (kW) | 25.7 | 25.7 | 27.4 | 28.2 | 26.75 |
| 17 | Time required for one ha (h) | 2.05 | 2.07 | 2.21 | 2.09 | 2.11 |
| 18 | Field efficiency (%) | 85.22 | 87.27 | 91.01 | 88.99 | 88.12 |
| 19 | Fuel consumption | | | | | |
| | l/h | 5.18 | 5.00 | 4.95 | 5.05 | 5.05 |
| | l/ha | 9.97 | 9.60 | 8.96 | 9.39 | 9.48 |

