



**NEW HOLLAND INDIA NEW HOLLAND 6500
TURBO SUPER 12+3 UG TRACTOR**



सत्यमेव जयते

भारत सरकार
कृषि मंत्रालय
(कृषि एवं सहकारिता विभाग)

GOVERNMENT OF INDIA
MINISTRY OF AGRICULTURE
(DEPARTMENT OF AGRICULTURE & CO-OPERATION)

केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान
ट्रैक्टर नगर, बुदनी (म.प्र.) ४६६ ४४५

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T-845/1355/2012

NEW HOLLAND INDIA, NEW HOLLAND 6500 TURBO SUPER 12+3 UG - Commercial (Initial)

Manufacturer : M/s. New Holland Fiat (India) Pvt. Ltd.,
Plot NO.-3, Udyog Kendra,
Greater Noida – 201 306,
Distt. Gautam Budh Nagar,
(Uttar Pradesh)

Test requested by : The manufacturer
Selected for test by : The manufacturer
Place of running-in : At manufacturer's works
Duration of said running-in, (h):
- Engine : 50
- Transmission : 50
Method of Selection : The tractor was submitted directly by the
applicant for test. Hence, method of
selection is not known.

1. SPECIFICATIONS

1.1 **Tractor:**
Make : New Holland India
Model : New Holland 6500 Turbo Super 12+3 UG
Brand name : New Holland
Variants. If any: : New Holland

| S. No. | Variant models* | Variant features |
|--------|---|--------------------------------|
| 1. | New Holland 6500 DT Turbo Super 12 + 3 UG | With Four Wheel Drive Version. |

* The variant models have not been tested yet at this Institute.

Type : Four wheeled, Rear-wheel driven,
Standard Agricultural Tractor.
Year of manufacture : February, 2012 (L202)
Chassis number : PD0035
Country of origin : India

1.2 **Engine:**
Make : Iveco
Model : 8035.25.721
Type : Four stroke, turbocharged, liquid cooled,
direct injection, diesel engine.
Serial number : 20084
Country of origin : India

1.2.1 **Engine speed (rpm), (Manufacturer's recommended production setting):**
- Maximum speed at no load : 2450 to 2600
- Low idle speed : 600 to 800
- Speed at maximum torque : 1200 to 1600
Rated speed, (rpm):
- For PTO use : 2300
- For drawbar use : 2300



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- 14.6 Steering system:**
Visual condition of the components of : Normal
complete steering assembly
- 14.7 Starter motor & Alternator:**
Presence of soil/oil in housing : None
Condition of bearings and other : Normal
components

15. ADJUSTMENTS, DEFECTS, BREAKDOWNS AND REPAIRS

| Sl. No. | Adjustments/Defects/Breakdowns and Repairs | Tractor run hours |
|---------|---|-------------------|
| 1. | During the 10 hour drawbar test, the LHS & RHS rear tyre was got punctured due to creeping of tyre over the rim. So, the LHS & RHS rear wheel tube was replaced with new one. | 24.2 |
| 2. | During the hydraulic performance test at lifting capacity at standard frame, the oil was leaked in hydraulic assembly, so 'O-ring' (part no - 14456980) 01no's was replaced with new one in hydraulic (control valve) assembly. The leakage from 'O-ring' of control valve assembly is categorized as minor (Mn-14) defect as per IS: 12207-2008. | 37.7 |

16. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

16.1 Evaluative (mandatory) / Non-evaluative (Non-mandatory) parameters applicable for qualifying Minimum Performance criteria as per Clause-4 (Table-1) of IS: 12207-2008 for acceptance of the tractor for the purpose of subsidies/NABARD financing are summarized as under:

| Sl. No. | Characteristic | Category (Evaluative / Non Evaluative) | Requirements as per IS: 12207-2008 | Values declared by the applicant/ (D) Requirement (R) | As observed | Whether meets the requirements (Yes/No.) |
|---------------|---|--|---|---|-------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 16.1.1 | PTO Performance : | | | | | |
| a) | Maximum power under 2 h test, (kW) (Natural ambient condition) | Evaluative | Declared value to be achieved with a tolerance of: -5 / +10% for PTO power >35hp. -7.5/+10% for PTO power ≤ 35 hp | 42.5 (D) | 42.7 | Yes |
| b) | Power at rated engine speed, (kW) | Non Evaluative | -do- | 42.5 (D) | 42.7 | Yes |
| c) | Specific fuel consumption corresponding to maximum power, (g/kWh) | Non Evaluative | + 5% | 270 (D) | 286 | No |
| d) | Maximum equivalent crankshaft torque, (Nm) | Non Evaluative | ± 8% | 265 (D) | 240.0 | No |
| e) | Back-up torque, percent | Non Evaluative | 7 percent, min. | 33.4 (D) | 35.2 | Yes |



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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
|--|--|-----------------|----------------|---|----------------------------------|-------|-----|
| f) | Maximum operating temperature, (°C) | | | | | | |
| | 1) | Engine oil | Non Evaluative | The declared value should not exceed the max. value specified by the oil company and the observed value under high ambient condition should not exceed the declaration. | 135 (D) | 120 | Yes |
| | 2) | Coolant | Evaluative | The declared value should not exceed the boiling temperature of coolant under the pressurized or otherwise and the observed value under high ambient condition should not exceed the declaration. | 119 (D) | 97 | Yes |
| g) | Engine oil consumption, (g/kWh) | | Evaluative | Not exceeding 1% of SFC at max. power under High ambient conditions | 2.95 Maximum (R) | 0.46 | Yes |
| h) | Smoke level | | Evaluative | Maximum light absorption coefficient of 3.25 per meter or equivalent BOSCH No. 5.2 or 75 Hatridge value (As per CMVR) | 3.25 per meter Maximum (R) | 1.12 | Yes |
| 16.1. Drawbar performance : | | | | | | | |
| a) | Maximum drawbar pull with ballast corresponding to 15 percent wheel slip, (kN) | | Non Evaluative | Minimum 65% of static mass with ballast | 23.0 (D) 23.27(R) Minimum | 30.28 | Yes |
| b) | Max. drawbar pull with standard ballast corresponding to 15 percent wheel slip, (kN) | | Evaluative | Minimum 65% of static mass of tractor with standard ballast | 15.0 (D) 16.25 (R) Minimum | 21.58 | Yes |
| c) | Maximum drawbar power with standard ballast, (kW). | | Evaluative | Min. 80% of PTO power as referred in 17.1.1 (a) of PTO performance | 34.0 (D) 34.2(R) Minimum | 35.9 | Yes |
| d) | Maximum transmission oil temperature (°C) | | Non Evaluative | The declared value should not exceed the maximum value specified by oil company | 130 (D) | 116 | Yes |
| 16.1. Power lift and hydraulic pump performance : | | | | | | | |
| a) | Maximum lifting capacity throughout the range of lift, (kN): | | | | | | |
| | 1) | At hitch points | Non Evaluative | [Tolerance of minus 10%] | 19.50 (D) | 18.29 | Yes |



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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
|----|--|-------------------------|----------------|--|-----------------------------------|-------|-----|
| | 2) | With the standard frame | Evaluative | The lift capacity should at least be 18 kg/PTO hp. and it should be 16 kg/engine hp where the tractor is not provided with a PTO shaft | 16.00 (D) 10.11 (R) Minimum | 15.84 | Yes |
| b) | Maximum drop in the height of the point of application of the force after each 5 minutes interval for a total duration of 30 Minutes, (mm) | | Non Evaluative | [Tolerance of plus 5 [mm] | 50 (D) Maximum | 17 | Yes |

| | | | | | | | |
|--|--|---------------------------|----------------|-------------------|--------------------|----------------|-----|
| 16.1.4 Brake performance at 25 kmph: | | | | | | | |
| a) | Maximum stopping distance at a force, equal to or less than 600 N on brake pedal with road ballast, (m): | | | | | | |
| | 1) | Cold brake | Evaluative | 10 | 10 (R) | 6.95 | Yes |
| | 2) | Hot brake | Evaluative | 10 | 10 (R) | 7.14 | Yes |
| b) | Maximum force exerted on the brake pedal to achieve a deceleration of 2.5 m/s ² (N) | | Evaluative | 600 | 600 (R) Maximum | 224 to 255 | Yes |
| c) | Whether parking brake is effective at a force of 600 N at foot pedal(s) or 400 N at hand lever | | Evaluative | Yes / No | Yes | Yes | Yes |
| 16.1.5 Noise measurement : | | | | | | | |
| a) | Maximum ambient noise emitted by the tractor dB(A) | | Evaluative | As per CMVR | 88(R) | 84 | Yes |
| b) | Maximum noise at operator's ear level dB(A) | | Evaluative | As per CMVR | 98(R) | 97 | Yes |
| 16.1.6 Amplitude of mechanical vibrations at: | | | | | | | |
| | 1) | Left foot rest | Non Evaluative | 100 microns (max) | 100(R) | 100 | Yes |
| | 2) | Right foot rest | | | | 100 | Yes |
| | 3) | Seat (with driver seated) | | | | 70 | Yes |
| | 4) | Steering wheel | | | | 100 | Yes |
| 16.1.7 Haulage requirements : | | | | | | | |
| a) | Gross mass of the trailers, (tones): | | | | | | |
| | 1) | Two wheel | Non Evaluative | -- | 6.0 (D) | 5.0 | Yes |
| | 2) | Four wheel | Evaluative | -- | 8.0 (D) | 8.0 | Yes |
| b) | Distance travelled / liter of fuel consumption, (km/l): | | | | | | |
| | 1) | Two wheel | Non Evaluative | -- | 3.5 to 4.5(D) | 3.50 to 3.52 | Yes |
| | 2) | Four wheel | | | 3.5 to 4.5(D) | 2.24 to 2.25 | No |
| c) | Fuel consumption (ml/km/tonne): | | | | | | |
| | 1) | Two wheel | Non Evaluative | -- | 35 to 45(D) | 56.52 to 57.12 | No |
| | 2) | Four wheel | Evaluative | -- | 35 to 45(D) | 42.88 to 43.07 | Yes |



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| 16.1.8 Wetland cultivation : | | | | | | |
| Sealing for the following assemblies: | | Evaluative | The identified assemblies should essentially meet the requirement of IS: 11082. No water ingress in the identified assembly given in column-2. If tractor does not meet the requirements of wetland cultivation, it may be recommended for dry land operation only. | There should be no ingress of water and/or mud | Manufacture has not recommended the tractor for puddling operation. Hence the puddling test was not conducted | Not applicable |
| 1) | Clutch assembly | -do- | | | | |
| 2) | Brake housings | -do- | | | | |
| 3) | Front axle hubs | -do- | | | | |
| 16.1.9 Safety features : | | | | | | |
| a) | Guards against moving and hot parts | Evaluative | As per CMVR | At present no requirements | Provided | Yes |
| b) | Lighting arrangement | Evaluative | As per CMVR | -- | Provided | Yes |
| 16.1.10 Labelling of tractors (Provision of labelling plate): | | | | | | |
| 1) | Make | Evaluative | Should conform to the requirements of CMVR along with declared value of PTO HP | -- | New Holland India | Yes |
| 2) | Model | Evaluative | | -- | New Holland 6500 Turbo Super 12+3 UG | Yes |
| 3) | Year of manufacture | Evaluative | | -- | L202 | Yes |
| 4) | Engine number | Evaluative | | -- | 20084 | Yes |
| 5) | Chassis number | Evaluative | | -- | PD0035 | Yes |
| 6) | Declaration of PTO power, (kW) (Ps) | Evaluative | | -- | 42.5 (57.0) | Yes |
| 16.1.11 Discard limit for: | | | | | | |
| a) | Cylinder bore diameter, (mm) | Evaluative | To be specified by the manufacturer | 104.2 (D) | 104.05 to 104.08 | Yes |
| b) | Clearance between piston & cylinder liner at skirt, (mm) | Non Evaluative | To be specified by the manufacturer | 0.50 (D) | 0.214 to 0.228 | Yes |
| (c) Ring end gap (mm): | | | | | | |
| - | Top comp. ring. | Evaluative | -do- | 1.50(D) | 0.30 to 0.40 | Yes |
| - | 2 nd comp. ring. | | -do- | 1.50(D) | 0.70 to 0.75 | Yes |
| - | Oil ring. | | -do- | 1.80(D) | 0.45 to 0.45 | Yes |
| (d) Ring groove clearance (mm): | | | | | | |
| - | Top comp. ring. | Evaluative | -do- | -- | Taper rings | -- |
| - | 2 nd comp. ring. | | -do- | 0.40 (D) | 0.056 to 0.058 | Yes |
| - | Oil ring. | | -do- | 0.40 (D) | 0.077 to 0.079 | Yes |
| (e) Clearance of main bearings (mm): | | | | | | |
| - | Diametrical clearance | Evaluative | To be specified by the manufacturer | 0.25 (D) | 0.133 to 0.186 | Yes |
| - | Crankshaft end float | Evaluative | To be specified by the manufacturer | 0.50 (D) | 0.23 | Yes |
| (f) Clearance of big end bearings, (mm): | | | | | | |
| - | Diametrical | Evaluative | -do- | 0.50 (D) | 0.187 to 0.235 | Yes |
| - | Axial | Evaluative | -do- | 0.75 (D) | 0.40 | Yes |



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| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| (g) | Clearance between king pin and bush, (mm) | Non Evaluative | -do- | 0.40 (D) | 0.16 to 0.19 | Yes |
| (h) | Clearance between centre pin and bush, (mm) | Non Evaluative | -do- | 0.40 (D) | 0.18 to 0.20 | Yes |

| 16.1.12 CATEGORY OF BREAKDOWNS / DEFECTS : | | | | | |
|---|------------------------|--|--|-------------|--|
| Sl. No. | Category of breakdowns | Category (Evaluative / Non Evaluative) | Requirements as per IS: 12207-2008 | As observed | Whether meets the requirements (Yes/No.) |
| 1. | Critical | Evaluative | No critical breakdown | None | Yes |
| 2. | Major | Evaluative | Not more than two and neither of them should be repetitive in nature | None | Yes |
| 3. | Minor | Evaluative | Not more than five and frequency of each should not be more than two. | One | Yes |
| 4. | Total breakdowns | Evaluative | In no case, the total number of breakdowns should exceed five, that is, (2 major + 3 minor) or 5 minor breakdowns. | None | Yes |

| 16.2 Optional requirements as per Clause-4 (Table-2) of IS:12207-2008: | | | | |
|---|---|--|---------------------------------|----------|
| S.No. | Characteristic | Requirements as per IS: 12207-2008 | As observed | Remarks |
| 1 | 2 | 3 | 4 | 5 |
| 1 | Air cleaner oil pull over, max. Oil pull over (%) | 0.25% (max.) | Not applicable | -- |
| 2. | Seating requirements | Should meet the requirements of IS: 12343-1998 | Does not meet the requirements | No |
| 3. | Fitment of ROPS | With a provision for fitment of ROPS. If ROPS fitted it should meet the requirement of IS: 11821-1992 | Not provided ROPS not fitted | No -- |
| 4. | Technical requirements for PTO shaft | Should meet the requirements of IS: 4931 -1995 | Does not meet the requirements | No |
| 5. | Dimensions of three point linkage | Should meet the requirements of IS: 4468 (Part-I)-1997 | Does not meet the requirements | No |
| 6. | Specifications of linkage drawbar | Should meet the requirements of IS: 12953-1990. | Meets the requirements | Yes |
| | Specification of swing-ing drawbar | Should meet the requirements of IS: 12362 Part 3-1994. | Not provided | -- |
| 7. | Accessories | Trailer hitch, front tow hook, linkage drawbar may be provided. | Provided | Yes |

- 16.3 Conformity with following IS:**
- i) Guidelines for declaration of power and specific fuel consumption and labeling of agricultural tractors (First revision) [IS: 10273-1987 (Reaffirmed in March, 2009)] : **Conforms**
 - ii) Agricultural tractors – Rear mounted power take-off - Types 1, 2 and 3(third revision)[IS: 4931-1995 (Reaffirmed in March, 2009)] : **Does not conform**



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- iii) Agricultural wheeled tractors - Rear mounted three-point linkage: Part 1 Categories 1, 2, 3 & 4 (fourth revision) [IS 4468 (Part-1):1997 (Reaffirmed in March, 2007)/ISO 730-1:1994] : **Does not conform**
- iv) Drawbar for agricultural tractors - Link type [IS 12953:1990 (Reaffirmed in March, 2007)]. : **Conforms**
- v) Agricultural tractors - Operator's seat technical requirement [IS 12343 -1998 (First revision) (Reaffirmed in March, 2009)]. : **Does not conform**
- vi) Guide for safety & comfort of operator of agricultural tractors: Part 1 General requirements (first revision) : [IS 12239 (PT-1)-1996 (Reaffirmed in March, 2009)/ISO 4254-1:1989]. : **Does not conform**
- vii) Tractors and machinery for agriculture and forestry - Technical means for ensuring safety Part 2: Tractors (first revision) IS 12239 (PT-2)-1999 (Reaffirmed in March, 2009)]. : **Does not conform**
- viii) Tractors and machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays [IS: 6283 (Part-1 & Part-2) -2006 & 2007(Reaffirmed in March, 2009)/ISO 3767-2:1991]]. : **Conforms**
- ix) Guide lines for location and operation of operator controls on agricultural tractors and machinery (first revision) (IS: 8133 - 1983) (Reaffirmed in March, 2009)]. : **Conforms**
- x) Agricultural Tractor & Machinery Lighting device for travel on public roads (IS: 14683-1999) (Reaffirmed in March, 2009)] : **Conforms**

16.4 Salient Observations:**16.4.1 Laboratory tests:****16.4.1.1 PTO Performance:**

- i) The backup torque is 35.2%.
- ii) The specific fuel consumption corresponding to maximum power was recorded as 286 g/kWh against the declaration of 270 g/kWh, which does not meet the requirements of IS: 12207-2008 with regard to tolerance. This should be looked into for necessary corrective action.
- iii) The maximum equivalent crankshaft torque was observed as 240.0 Nm against the declaration of 265.0 Nm and which does not meet the requirement of IS: 12207-2008 with regard to tolerance. This should be looked into for necessary corrective action.

16.4.1.2 Drawbar performance:

- i) During the 10 hour drawbar test, the LHS & RHS rear tyre was punctured due to creeping of tyre over the rim. So, the LHS & RHS rear wheel tube was replaced with new one.



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NEW HOLLAND INDIA, NEW HOLLAND 6500 TURBO
SUPER 12+3 UG - Commercial (Initial)**16.4.1.3 Hydraulic performance:**

- i) During the hydraulic performance test at lifting capacity at standard frame, the oil was leaked in hydraulic assembly, so 'O-ring' (part no -14456980) 01no's was replaced with new one in hydraulic (control valve) assembly. The leakage from 'O-ring' of control valve assembly is categorized as minor (Mn-14) defect as per IS: 12207-2008. This should be looked into for necessary corrective action.

16.4.1.4 Mechanical Vibration:

The amplitude of mechanical vibration on various assemblies marked as (*) in Chapter - 9 of this test report is on higher side. This calls for dampening down of vibrations to improve the operational comfort and service life of components.

16.4.1.5 Three point linkage:

- i) The distance from end of power take-off to the centre of lower hitch point (lower link in horizontal position) does not meet the requirement of IS: 4468 (Part-1)-1997. This should be looked into for necessary corrective action.

16.4.1.6 Specifications of Power Take Off Shaft:

The dimensions 'dø' of the Power take-off shaft does not meet the requirement of IS: 4931-1995. This should be looked into for necessary corrective action.

16.4.1.7 Location and operation of operator's control:

Working clearance between PTO cultch hand lever & the mudguard does not meet the requirement of the IS: 12239 (Part-2)-1996. This should be looked into for necessary corrective action.

16.4.2 Field performance:**16.4.2.1 Haulage Performance:**

- i) The distance travelled / litre of fuel consumption with four wheel trailer was observed as 2.24 to 2.25 km/l against the declaration of 3.5 to 4.5 km/l respectively. This does not meet the requirement of IS: 12207-2008 and therefore, should be looked into for necessary corrective action.
- ii) The specific fuel consumption with two wheel trailer was recorded as 56.52 to 57.12 ml/km/tonne against the declaration of 35.0 to 45.0 ml/km/tonne respectively. This does not meet the requirement of IS: 12207-2008 and therefore, should be looked into for necessary corrective action.

16.4.2.2 Wetland cultivation (Puddling operation):

The manufacturer has recommended that the tractor is not suitable for wetland cultivation (puddling operation) and therefore, the wetland cultivation (puddling operation) was not conducted. It is recommended that in all the literature this fact that the tractor is not suitable for wetland (puddling) operation should be mentioned clearly & boldly in all the relevant literature of the tractor & also a cautionary notice regarding non-suitability of tractor for puddling operation may be displayed on the bonnet of the tractor.

16.5 Maintenance / Service Problems:

No noticeable maintenance or service problem was observed during the test. However, suitable provision for draining the sediment/ water at fuel tank may be provided.

16.6 Recommendation with regard to safety on tractor:

The following requirements, inter alia, may be considered for incorporation on the tractor:

- i) Provision for spark arresting device in exhaust system.
- ii) Provision of PTO shaft master shield.



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NEW HOLLAND INDIA, NEW HOLLAND 6500 TURBO
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16.7.1 The following literatures were supplied with the test tractor for reference during the test:-

- a) Operator's manual (For 7500,6500 & 5500 Turbo Super model tractors)
- b) Service Manual (For 7500,6500 & 5500 Turbo Super model tractors)
- c) Service Parts catalogue (For 7500,6500 & 5500 tractor models)
- d) Service Parts catalogue Trem 3A Supplementary (For 3630,5500,6500 & 7500 tractor models)

- 16.7.2 i) Information on variant models & their feature at a glance shall also be included in the operator's manual
- ii) The manufacturer has recommended that the tractor is not suitable for wetland cultivation (puddling operation) and therefore, the wetland cultivation (puddling operation) was not conducted. It is recommended that in all the literature this fact that the tractor is not suitable for wetland (puddling) operation should be mentioned clearly & boldly in all the relevant literature of the tractor & also a cautionary notice regarding non-suitability of tractor for puddling operation may be displayed on the bonnet of the tractor.

16.7.3 The literature should be brought out in national as well as other regional languages of India for guidance of users.

TESTING AUTHORITY:P.K.VERMA
SENIOR AGRICULTURAL ENGINEERV.N. KALE
DIRECTOR

Test Report compiled by Shri.Chanchlesh Singh Raghuwanshi, Senior Technical Assistant.



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NEW HOLLAND INDIA, NEW HOLLAND 6500 TURBO
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| Para No. | Our Reference | Applicant's comments |
|----------|-----------------------|--|
| 17.1 | 16.4.1.1.(ii), (iii) | These valuable comments & suggestions for improvements are well taken. Under our policy of continuous product improvement these aspects are further being looked into & will take appropriate actions to eliminate these deviations soon wherever necessary. |
| 17.2 | 16.4.2.1(i & ii) | |
| 17.3 | 16.3.(ii), (v), (vii) | |
| 17.4 | 16.7.2 | |
| 17.5 | 16.7.3 | |

ANNEXURE – I**BRIEF SPECIFICATION OF IMPLEMENTS USED DURING FIELD TEST**

| S. No. | Item | Disc Plough | Rotavator |
|--------|---------------------------------|---------------|------------------|
| 1. | Make | Field King | Shaktimaan |
| 2. | Type | Mounted | Mounted |
| 3. | No. of bottoms/blades | Three | 48, in 9 flanges |
| 4. | Type of bottoms/blades | Plain Concave | Hatchet |
| 5. | Size of bottoms/blades,(mm) | 525 | 130 x 70 x 5 |
| 6. | Spacing of bottoms/flanges,(mm) | 520 | 245 |
| 7. | Lower hitch point span,(mm) | 855 | 835 |
| 8. | Mast height (mm) | 440 | 610 |
| 9. | Overall dimensions,(mm): | | |
| | - Length | 2030 | 1115 |
| | - Width | 1750 | 2040 |
| | - Height | 1070 | 1130 |
| 10 | Gross mass, (kg) | 365 | 525 |



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NEW HOLLAND INDIA, NEW HOLLAND 6500 TURBO
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| A. | LABORATORY AND TRACK TESTS: | HOURS |
|-----------|--|--------------|
| 1. | Running-in | -- |
| 2. | PTO performance test | 12.1 |
| 3. | Power lift and hydraulic pump performance test | 2.2 |
| 4. | Drawbar performance test | 18.2 |
| 5. | Turning ability | 0.2 |
| 6. | Location of centre of gravity | 0.2 |
| 7. | Operator's field of vision | 0.6 |
| 8. | Brake test | 1.5 |
| 9. | Noise measurement | 1.5 |
| 10. | Mechanical vibration test | 1.0 |
| 11. | Theoretical speed test | 1.0 |
| B. | FIELD TEST: | |
| 1. | Disc ploughing | |
| 2. | Rotavation | 15.4 |
| 3. | Puddling (including 5.0 hours water proof test) | 19.7 |
| C | HAULAGE TEST | 9.2 |
| D. | Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test | 2.6 |
| | TOTAL: | 85.4 |