प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट संख्या/No. : T-1776/2307/2023 INITIAL COMMERCIAL TEST REPORT माह/Month : September, 2023

Application Reference No. 28/2022-23/120

(यह परीक्षण रिपोर्ट 30/09/2028 तक वैध है / THIS TEST REPORT IS VALID UPTO 30/09/2028)



Make of Agricultural Tractor: Mahindra

Model : NOVO 655 DI PP V1

Manufactured by : Mahindra & Mahindra Limited,

(Farm Equipment Sector) Mahindra Research Valley, Mahindra World City, Plot no. 41/1, Anjur

P.O., District Chengalpattu - 603004.



भारत सरकार

कृषि एवं किसान कल्याण मंत्रालय (कृषि एवं किसान कल्याण विभाग)

GOVERNMENT OF INDIA

MINISTRY OF AGRICULTURE AND FARMERS WELFARE (DEPARTMENT OF AGRICULTURE & FARMERS WELFARE)

केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान ट्रैक्टर नगर, बुदनी (म.प्र.) 466 445

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE

TRACTOR NAGAR, BUDNI (M.P.) 466 445 (An ISO 9001:2015 Certified Institute)

E-mail: fmti-mp@nic.in Web site: https://www.fmttibudni.gov.in Telephone: 07564-299003

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IMPORTANT INFORMATION

The Government of India, Ministry of Agriculture and Farmers' Welfare has directed, vide a OM No. 13-17/2021-M&T(I&P) dated 28.07.2022, that since 15th August, 2022, only mandatory tests will be carried out on a tractor unless applicant has expressly requested for optional tests as well, mentioned in the above captioned OM.

In the instant case, there is no request from the applicant to carry out the optional tests hence only Mandatory Tests, as given below, have been conducted and reported in this report: -

- 1. PTO performance
- 2. Hydraulic performance
- 3. Drawbar performance
- 4. Brake performance

| Month: September Test Report No.: T-1776/2307/2023 |
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|--|



GOVERNMENT OF INDIA CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE TRACTOR NAGAR, BUDNI (MADHYA PRADESH) 466445, INDIA

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There is apparently a "Multi Drive Mode Switch (MDM)" in the tractor. The applicant has christened the different modes as "Diesel Saver, Normal and Power Mode". However, institute was requested to conduct the test only on so called Power mode. Therefore, this report contains the observation on the so called "Power Mode" only.

[C] Tractor manufacturer's name and : M/s. Mahindra & Mahindra Limited

address (Farm Equipment Sector)

Mahindra Research Valley, Mahindra World City, Plot no. 41/1, Anjur P.O., District

Chengalpattu - 603004.

[D] Location of tractor assembly Mahindra & Mahindra Limited

(Farm Equipment Sector)

: (i) Akurli Road, Kandivli (E), MUMBAI – 400 101

(ii) MIDC Hingna Road, Nagpur– 440 028

(iii) Khatima Panipat Highway, Rudrapur, Udhamsingh Nagar – 263 153.

(iv) Jaipur Ajmer Road, Jaipur- 303 007

(v) Near Bidar "T" Junction, Mahindra Nagar, Zaheerabad- 502 220

(vi) Mahindra Research Valley, Mahindra World City, Plot no. 41/1, Anjur P.O., District Chengalpattu – 603 004

[C] Submitted for test by (Applicant) : The Manufacturer

[C] Selected for test by : The Ministry vide OM No. 13-17/2021 - M&T

(I&P) dated 28.07.2022, has allowed the applicant to submit the test sample directly to the Institute without requiring any random selection for Initial Commercial Testing. Thus, the applicant directly submitted the test

sample to the Institute for test.

[D] Place of running-in : At manufacturer's works

[D] Duration of running-in (h):

-Engine : 30 -Transmission : 32

[C] Location of test : Government of India,

Central Farm Machinery Training and Testing

Institute, P.O. - Tractor Nagar, BUDNI - 466445 (M.P.), INDIA

1. SPECIFICATIONS OF TRACTOR

1.1 Identification:

1.1.1 Denomination

[C] Make of tractor : Mahindra

[C] Model (trade name) : NOVO 655 DI PP V1

[C] Type : Two Wheel Driven, Standard Agricultural

Tractor.

[C] Month & year of manufacture : 02/23
[D] Country of origin : India

1.1.2 Numbers:

[D]1st Serial No. of prototype: MBNWHBF9VPNL00001[C]Serial No.: MBNWHBF9VPNL00001

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6. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

6.1 On the basis of test conducted the performance results have been summarized as evaluative (mandatory) / Non-evaluative (Non-mandatory) parameters applicable for Qualifying Minimum Performance criteria as per Clause-4 (Table-1) of IS: 12207-2022 for acceptance of the tractor for the purpose of subsidies/NABARD financing are summarized as under:

| SI. No. | Cha | aracteristic | (Evaluative / As per IS: 12207-2019 declar by transplication (D) Require transport to the period of | | Values declared by the applicant/ (D) Requiremen t (R) | As observe d | Whether meets the require- ments (Yes/No) | |
|------------|--|-----------------------------|--|---|--|--------------------|--|--|
| 1 | | 2 | 3 | 4 | 5 | 6 | 7 | |
| | MANDATORY TESTS: (As per Ministry's Office Memorandum No. 13-17/2021-M&T (I&F dated 28 th of July, 2022). | | | | | | | |
| 6.1.1 | | Performance: | | | 1 | 1 | | |
| a) | Maximum power under 2 h test, (kW) (Natural ambient condition) | | Evaluative | Declared value to be achieved with a tolerance of: ±5% for PTO power and or engine power >26 kW. ±10% for PTO power and or engine ≤ 26 kW. | 44.0 (D) | 43.7 | Yes | |
| b) | | r at rated e speed, (kW) | Non Evaluative | -do- | 44.0 (D) | 43.7 | Yes | |
| с) | Specific fuel consumption corresponding to maximum power, (g/kWh) | | Evaluative | + 10% max. | 264 (D) | 277 | Yes | |
| d) | Maximum equivalent crankshaft torque, (Nm) | | Non- Evaluative | ± 8% | 277 (D) | 265.6 | Yes | |
| e) | Back-up torque, percent | | Evaluative | 12 percent | 25 (D) 12 (R) | 33.7 | Yes | |
| f) | | num operating | | (°C): | | 1 | | |
| | 1) Engine oil | | 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) | 134 | 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. | 110(D) | 106 | Yes | |
| g) | Engine oil consumption, (g/kWh) | | Evaluative | Not exceeding 1% of SFC at max. Power under High ambient conditions. | 2.77 Maximum (R) | 0.296 | Yes | |
| h) | Smoke level, m ⁻¹ | | 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) | 0.07 | Yes | |

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| 6.1.2 | | 2 | 3 | 4 | 5 | 6 | 7 | |
|-------|--|--|--------------------|--|---------------------------------|-------|------------------------|--|
| | Drawbar performance: | | | | | | | |
| a) | Max. drawbar pull with ballast corresponding to 15 percent wheel slip, (kN) | | Non- Evaluative | Minimum 70% of static mass of tractor with ballast. | Ballast recomme | | Not applic- able | |
| b) | Max. drawbar pull with standard ballast corresponding to 15 percent wheel slip, (kN) | | Evaluative | Minimum 70% of static mass of tractor without ballast or with standard ballast, as the case may be. | 21.1 (D) 21.2 (R) Minimum | 23.5 | Yes | |
| c) | Maximum drawbar power without ballast/ with standard ballast, (kW). | | Evaluative | Minimum 80 % of PTO pow er as referred in SI No. i) a) of PTO performance in case of tractors having total static mass > 1500 kg Minimum 75 % of PTO pow er as referred in SI No. i) a) of PTO performance in case of light weight tractors having ≤1500 kg total static mass of tractor Minimum 75 % of the engine pow er as referred in SI No. i) a) of engine performance in case of tractors w hich do not have a PTO shaft. | 35.2 (D) 35.0 (R) Minimum | 38.2 | Yes | |
| d) | trans | imum smission oil perature, (°C) | Evaluative | The declared value should not exceed the maximum value specified by oil company | 120 (D) | 89 | Yes | |
| 6.1.3 | Power lift and hydraulic pump performance: | | | | | | | |
| a) | | | | the range of lift, (kN): | | | | |
| | 1) | At hitch points | Evaluative | Tolerance of ± 10% | 26.5 (D) | 26.38 | Yes | |
| | 2) | With the standard frame | Evaluative | The lift capacity should at least be 24 kg/PTO kW and it should be 21.5 kg/engine kW where the tractor is not provided with a PTO shaft. | 19.1 (D) 10.3(R) Minimum | 19.08 | Yes | |
| b) | heig appli force minu total Minu | mum drop in the ht of the point of ication of the after each 5 utes interval for a duration of 30 ttes, (mm) | Non Evaluative | The observed value should not exceed 50 mm | 50 (D) Maximum | NIL | Yes | |
| 6.1.4 | 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) | 7.67 | Yes | |
| 1-> | 2) | Hot brake | Evaluative | 10 | 10 (R) | 7.97 | Yes | |
| b) | exert peda | mum force ted on the brake at to achieve a eleration of 2.5 (N) | Evaluative | 600 | 600 (R) Maximum | 157 | Yes | |

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----|---|------------|----------|-----|-----|-----|
| 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 |

| | peda | al (s) or 400 N at | | | | | |
|-------|--|---|-------------------|--|--|------------------------|--|
| 6.1.5 | | FIONAL TESTS: | | | | | |
| 0.1.5 | As the applicant has not applied for any optional tests, therefore no optional tests was | | | | | | |
| | conducted. | | | | | | |
| 6.1.6 | | ety features: | | T | T | | |
| a) | Gua mov | ards against ing and hot parts | Evaluative | Belt drives, pulleys, silencer, hydraulic pipes [As per IS 12239 (Part2)] | Meets the requirement | Yes | |
| b) | Ligh | iting arrangement | Evaluative | As per CMVR | Meets the requirement | Yes | |
| c) | (Tra thar | ting requirements ctors having more n 1150 mm rear k width) | Non Evaluative | Should meet the requirements of IS: 12343 (As amended from time to time) | Does not meet the requirement | No | |
| d) | requ sha | | Evaluative | Should meet the requirements of IS: 4931 (As amended from time to time) | Meets the requirement | Yes | |
| e) | Dimensions of three point linkage | | Non Evaluative | Should meet the requirements of IS: 4468 (Part-I) (As amended from time to time) | Does not meet the requirement | No | |
| f) | Specifications of linkage drawbar | | Evaluative | Should meet the requirements of IS: 12953 (As amended from time to time) | Meets the requirement | Yes | |
| g) | Swinging drawbar (wherever fitted) | | Evaluative | Should meet the requirement of IS: 12362 (Part 3) (As amended from time to time) | Not provided | Not appli-c able | |
| h) | 1) | Maximum travelling speed at rated engine speed in reverse gears, Kmph | Evaluative | Should not exceed 20 Kmph | Provided(The audible warning signal on tractor is activated when the speed in reverse gear reaches to 20 kmph) | Yes | |
| | 2) | Audible warning signal on tractor | Evaluative | As soon as the travelling speed in reverse gear reaches to 20 kmph, an audible warning signal on tractor shall be activated. The safety aspects about the operation of shuttle technology shall be brought in operation and manufacturer /dealer shall ensure the training on this aspect to operator. | Fitted | Yes | |

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| 6.1.7 | Lab | elling of tractors | s (Provision | of labelling plate): | | | | | |
|--------|------|--------------------|-----------------|---------------------------------------|-------------------------------|------------------|------------|-----|----------|
| | 1) | Make | Evaluative | Should conform to | | | | | Yes |
| | 2) | Model | Evaluative | requirements of CMVR | | NO | VO 655 DI | PP | Yes |
| | | | | with maximum PTO Power in | | | V1 | | |
| | 3) | Month & | Evaluative | <u> </u> | kW and year of manufacture in | | 02/23 | | Yes |
| | , | Year of | | numerical form. | | | | | |
| | | manufacture | | MM YY | | | | | |
| | 4) | Engine number | Evaluative | | | NI | PL5SEE00 | 21 | Yes |
| | 5) | Chassis numbe | | Digit 01 – 12 in box No.11 | | | NWHBF9\ | | Yes |
| | - / | | | will represent the month | | | L00001 | | |
| _ | 6) | Maximum PTO | Evaluative | next two digits in box No | | | 44(59.0) | | Yes |
| | -, | power, (kW) | | YY will represent the y | ear of | | () | | |
| - | 7) | Specific fuel | Evaluative | Manufacturing. | | | 264(197) | | Yes |
| | ٠, | consumption, | _ 10.1.0.0.1.10 | | | | _0 :(:0:) | | |
| | | (g/kWh) | | | | | | | |
| 6.1.8 | Lite | erature (Submis | sion to test a | agency): | <u> </u> | | | | |
| (a) | | erator manual | Evaluative | Provided /Not Provided | Provid | ed | Provided | | Yes |
| (b) | - | rts Catalogue | Evaluative | Provided /Not Provided | Provid | ed | Provided | | Yes |
| (c) | | orkshop/ | Evaluative | Provided /Not Provided | Provid | | Provided | | Yes |
| | | rvice manual | | | | | | | |
| 6.1.9 | Fit | ment of Roll Ov | er Protective | Structures (ROPS): | · · | | l | ı | |
| | | r tractor having | Evaluative | ROPS should meet the | ROPS | S fitte | ed [Meets | | Yes |
| | mo | | | requirement of IS:11821 | the requirement of | | ement of | | |
| | mn | n rear track | | or OECD code or | | | Part-2) as | | |
| | wic | łth | | equivalent International | | | | | |
| | | | | Standard | this | this test report | | | |
| 6.1.10 | Sta | andard | Evaluative | Trailer hitch, front tow | F | Provided Yes | | Yes | |
| | Ac | cessories | | hook, linkage drawbar | r | | | | |
| | | | | should be provided with | n | | | | |
| | | | | tractor | | | | | |
| 6.1.11 | Ac | cessories | Non | Ballast weight, if fitted, | N | lot f | itted | | Not |
| | (op | tional) | Evaluative | should meet the | | | | ар | plicable |
| | | | | requirement of CMVR | | | | | |
| 6.2 | CA | TEGORY OF BR | EAKDOWNS | / DEFECTS (As per claus | se 5.0 o | f IS | :12207-201 | 9): | |
| S. No. | | Category of | Category | Requirements | | As V | | W | hether |
| | l | break-downs | (Evaluative | as per IS: 12207-20 | 19 | 0 | bserved | | ets the |
| | | | / Non | | | | | | irements |
| | | | Evaluative) | | | | | | es/No) |
| 1. | _ | tical | Evaluative | No critical breakdown | | | None | | Yes |
| 2. | Ma | jor | Evaluative | | | | Yes | | |
| | | | | them should be repet | tive in | | | | |
| | | | | nature | | | | | |
| 3. | Mir | nor | Evaluative | · · · · · · · · · · · · · · · · · · · | | Yes | | | |
| | | | | of each should not be more than | | | | | |
| | | | | two. | | | | | |
| | | | | In no case, the total number of None | | | Yes | | |
| 4. | Tot | al breakdowns | Evaluative | · | | | | | |
| | | | | that is, (2 major + 3 minor) or (1 | | | | | |
| | | | | major + 4 minor) or 5 | minor | | | | |
| | | | | breakdowns. | | | | | |

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6.3 Conformity with following IS:

i) Guidelines for declaration of power and specific fuel consumption and : Conforms

labeling of agricultural tractors (First revision) [IS:10273 -1987

(Reaffirmed Year 2019)]

ii) Agricultural tractors - Rear mounted power take-off - Types 1, 2 and 3 : Conforms

(third revision) [IS:4931-1995 (Reaffirmed Year 2019)]

Agricultural wheeled tractors – Rear mounted three-point linkage: Part : iii) Does not conform

1 Categories 1, 2, 3 & 4 (fourth revision) [IS:4468(Part-I) - 1997 (Reaffirmed in 2022)]

iv) Drawbar for agricultural tractors – Link type [IS 12953:1990 (Reaffirmed: Conforms

Year 2022)]

v) Agricultural tractors - Operator's seat technical requirement [IS12343 -Does not conform

2021]

vi) Guide for safety & comfort of operator of agricultural tractors: Part 1: Does not conform

General requirements (first revision):[IS 12239 (Part 1) - 2018]

Tractors and machinery for agriculture and forestry – Technical means vii) Does not conform

for ensuring safety Part 2: Tractors (first revision) (IS 12239 (Part 2) 1999) (Reaffirmed Year 2019)]

viii) Guide lines for location and operation of operator controls on Does not conform

agricultural tractors and machinery [IS: 8133 - 2021]

ix) Tractors and machinery for agriculture and forestry, powered lawn and : Does not conform

garden equipment - Symbols for operator controls and other displays Part2 Symbols for agricultural tractors and machinery [IS: 6283(Part-1) - 2006 (Reaffirmed Year 2019) and IS: 6283 (Part-2) - 2007 (Reaffirmed

Year 2019)]

Agricultural Tractors and Machinery-Lighting device for travel on public : x) Conforms

roads [(IS:14683-1999) (Reaffirmed Year 2019)]

6.4 Salient Observations:

6.4.1 Laboratory tests:

6.4.1.1 PTO performance test:

Applicant vide letter no. FD/BVH/ICT/NOVO655DIPPV1/23-24/05 dated 11.08.2023 has recommended that tractor operating range is from 1000 rpm to rated engine rpm under full load condition. Hence during PTO performance test, varying speed test was conducted upto 1000 rpm of engine only under natural and high ambient condition.

6.4.1.2 Drawbar performance test:

- Applicant vide letter no. FD/BVH/ICT/NOVO655DIV1/23-24/08 dated 21.08.2023 has requested not to conduct the ballasted drawbar performance test & ten-hour drawbar test which is allowed as per the additional guideline for testing of tractors as per new regime of testing of tractors vide an OM No. 13-32/2023-M&T (I&P) (FTS-125476) dated 16.05.2023. Accordingly, drawbar performance test under unballasted condition was conducted only.
- (ii) The applicant also requested to restrict the drawbar performance test to 1000 engine rpm as per minimum operating range of tractor under full load condition. Hence, drawbar performance test was conducted upto 1000 rpm of engine only.

6.4.1.3 Operator's seat:

The following parameters do not meet the requirement of IS: 12343-2021.

Provision for adjustment of driver's mass has been specified as 50 to 130 kg against the requirement of 40 to 100 kg.

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ii) Position of silencer outlet (upward) with respect to SIP has been measured as 710 mm against the minimum requirement of 800 mm.

Therefore, all of the above should be looked into for necessary corrective action.

6.4.1.4 Operator's work place:

The following parameters does not meet the requirement of IS: 12239 (Part-I) -2018.

- i) Vertical retainers on inner side of clutch pedal are not provided.
- ii) Spark arresting device has not been provided in the exhaust system.

Therefore, all of the above should be looked into for necessary corrective action.

6.4.1.5 Three-point linkage:

The dimensions viz. diameter of hitch pin hole & width of ball of upper & lower points and Lateral distance from lower hitch point to centre line of tractor do not meet the requirements of IS: 4468 (Part-I) – 1997. This should be looked into for necessary corrective action.

6.4.1.6 PTO master shield:

PTO master shield has not been provided on tractor. This should be looked into for necessary corrective action.

6.5 Maintenance / Service Problems:

No noticeable maintenance or service problem was observed during the test.

6.6 Recommendation with regard to safety on tractor:

- i) Identification of Fuel shut off by symbol has not been provided as per the requirement of IS: 6283(Part-1)-2006 (Reaffirmed January,2019).
- ii) Identification of Engine revolution gauge by colour code has not been provided as per the requirement of IS: 6283(Part-2)-2007 (Reaffirmed January, 2019).
- ii) Identification of hand controls by colour coding has not been provided as per the requirement as laid down in Table 5 of IS: 8133-2021.
- iv) The hand accelerator lever, when moved away from the operator (i.e. forward) decreases the engine speed, which does not meet the requirement as laid down in Table 1 of IS: 8133-2021.
- v) The working clearance between draft control lever and RHS mudguard has been measured as 30 mm, against the minimum requirement of 70 mm as per the requirement of IS: 12239 (Part II) 2019.

Above parameters should be looked into for necessary corrective action.

6.7 Adequacy of Literature supplied with machine:

- **6.7.1** The following literatures were supplied with the test tractor for reference during the test:
 - a) Operator Manual for "Mahindra NOVO 655 DI PP V1" tractor models.
 - b) Parts catalogue for "Mahindra NOVO 655 DI PP V1" tractor model.
 - c) Service manual for "Mahindra NOVO 655 DI PP V1" tractor model.
- 6.7.2 The operator manual may be brought out for the guidance of users and service personnel as per IS: 8132-1999 incorporating, inter alia, the following:
 - i) Recommended safe hitch height for trailer

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MAHINDRA, NOVO 655 DI PP V1 - INITIAL COMMERCIAL TEST

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TEST CARRIED OUT AT C.F.M.T. & T.I., BUDNI (M.P.), INDIA

TESTING AUTHORITY

| B. N. DIXIT AGRICULTURAL ENGINEER | |
|--------------------------------------|------------|
| C. V. CHIMOTE TEST ENGINEER | E Thuman E |
| A.K. UPADHYAY DIRECTOR(I/C) | M |

Draft test report compiled by B.N. Dixit, Agricultural Engineer.

7. APPLICANT'S COMMENTS

| Para no. | Our reference | Applicants comments | | | | |
|----------|---------------|--|--|--|--|--|
| 7.1 | 6.7.2 | Parameters in Product literature will be studied & | | | | |
| | | necessary action will be initiated. | | | | |

ANNEXURE-I

TRACTOR RUN HOURS DURING TEST

| A. | LABORATORY AND TRACK TESTS | HOURS | | | |
|----|--|--|--|--|--|
| 1. | Running-in | Applicant has declared it to be conducted on their work place. | | | |
| 2. | PTO performance test | 12.57 | | | |
| 3. | Power lift and hydraulic pump performance test | 4.75 | | | |
| 4. | Drawbar performance test | 5.30 | | | |
| 5. | Brake performance test | 2.25 | | | |
| 6. | Nominal speed test | 3.37 | | | |
| В. | Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test | 0.45 | | | |
| | TOTAL: | 28.69 | | | |