

ब्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)
INITIAL COMMERCIAL TEST REPORT
(CONVERTED FROM 1st Batch of Variant report)

संख्या/No. : T-1671/2202/2022

माह/Month : July, 2022

(यहपरीक्षण रिपोर्ट 31/07/2025 तक वैध है/ THIS TEST REPORT IS VALID UPTO 31/07/2025)



MAHINDRA, YUVO 275 DI TRACTOR



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)

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3. SPECIFICATIONS

3.1 Tractor:								
Make	:	Mahindra						
Model	:	YUVO 275 DI						
Type	:	Rear wheel driven, Standard Agricultural Tractor						
Month & year of manufacture	:	10/21						
Chassis number	:	MBNSFAE1EMNG00011						
Country of origin	:	India						
3.2 Engine:								
Manufacturer's address	:	M/s. Mahindra & Mahindra Limited (Farm Equipment Sector) Hingna Road, Hingna MIDC, Nagpur– 440016						
Make	:	Mahindra						
Model	:	DHE2235NA3A						
Type	:	Four stroke, naturally aspirated, liquid cooled, direct injection, diesel engine						
Serial number	:	NMG5HAE0012						
Country of origin	:	India						
3.2.1 Engine speed (rpm), (Manufacturer's recommended production settings):								
- Maximum speed at no load	:	2150 to 2350						
- Low idle speed	:	750 to 850						
- Speed at maximum torque	:	1100 to 1300						
Rated speed, (rpm):								
- For PTO use	:	2000						
- For drawbar use	:	2000						
3.3 Cylinder & Cylinder Head:								
Number	:	Three						
Disposition	:	Vertical, Inline						
Bore/stroke, (mm)	:	88.9/120						
Capacity as specified by the applicant, (cc)	:	2235						
Compression ratio	:	20 (± 1): 1						
Type of cylinder head	:	Monoblock						
Type of cylinder liners	:	Wet, replaceable						
Type of combustion chamber	:	Re-entrant cavity on piston head						
Arrangement of valves	:	Overhead, inline						
Valve clearance (cold/hot):								
- Inlet valve, (mm)	:	<table border="1"> <tr> <td>Cold</td> <td>Hot</td> </tr> <tr> <td>0.4</td> <td>0.3</td> </tr> <tr> <td>0.5</td> <td>0.4</td> </tr> </table>	Cold	Hot	0.4	0.3	0.5	0.4
Cold	Hot							
0.4	0.3							
0.5	0.4							
- Exhaust valve, (mm)	:							
3.4 Fuel System:								
Type of fuel feed system	:	Gravity and force feed						
3.4.1 Fuel tank:								
Capacity, (l)	:	63.3						
Location	:	Above clutch housing						
Provision for draining of sediments/ water	:	Provided						
Material of fuel tank	:	LLPDPE						

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18. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

18.1 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: 12207-2019 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: 12207-2019	Values declared by the applicant/ (D) Requirement (R)	As observed	Whether meets the requirements (Yes/No)
1	2	3	4	5	6	7
18.1.1	PTO Performance :					
a)	Maximum power under 2 h test, (kW) (Natural ambient condition)	Evaluative	Declared value to be achieved with a tolerance of: $\pm 5\%$ for PTO power and or engine power > 26 kW. $\pm 10\%$ for PTO power and or engine ≤ 26 kW.	23.17 (D)	22.5	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	23.17(D)	22.4	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+ 10% max.	249 (D)	246	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	$\pm 8\%$	146 (D)	131.9	No
e)	Back-up torque, percent	Evaluative	12 percent	18 (D) 12 (R)	23.2	Yes
f)	Maximum operating temperature, ($^{\circ}$ C)					
	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.	130 (D)	118	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)	94	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. Power under High ambient conditions.	2.39 Maximum (R)	0.18	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 Maximum (R)	0.20	Yes

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1	2	3	4	5	6	7
18.1.2	Drawbar Performance :					
a)	Max. drawbar pull with ballasted corresponding to 15 percent wheel slip, (kN)	Non Evaluative	Minimum 70% of static mass of tractor with ballast.	17.51 (D) 17.10 Minimum (R)	19.22	Yes
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.	12.50 (D) 13.32 (R) Minimum	14.83	Yes
c)	Maximum drawbar power with standard ballast, (kW).	Evaluative	Minimum 80 % of PTO power as referred in SI No. i) a) of PTO performance in case of tractors having total static mass > 1500 kg Minimum 75 % of PTO power 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 power as referred in SI No. i) a) of engine performance in case of tractors which do not have a PTO shaft.	18.54 (D) 18.0 (R) Minimum	19.9	Yes
d)	Maximum transmission oil temperature, (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	120 (D)	80	Yes
18.1.3	Power lift and hydraulic pump performance :					
a)	Maximum lifting capacity throughout the range of lift, (kN):					
	1) At hitch points	Evaluative	Tolerance of ± 10%	14.7 (D)	14.65	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.	11.70 (D) 5.30 (R) Minimum	10.01	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	The observed value should not exceed 50 mm	50 (D) Maximum	04	Yes
18.1.4	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)	7.44	Yes
	2) Hot brake	Evaluative	10	10 (R)	7.66	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	222 to 265	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
18.1.5	Noise measurement :					
a)	Maximum ambient noise emitted by the tractor, dB(A)	Evaluative	As per CMVR	88 (R)	80	Yes
b)	Maximum noise at operator's ear level, dB(A)	Evaluative	As per CMVR	96 (R)	90	Yes
18.1.6	Amplitude of mechanical vibrations at:					
	1) Left foot rest	Non Evaluative	100 microns (max.)	100(R)	89	Yes
	2) Right foot rest				78	Yes
	3) Seat (with driver seated)				69	Yes
	4) Steering wheel				178	No
18.1.7	Air cleaner oil pull over :					
	Maximum air cleaner oil pull over, (%)	Evaluative	0.25 (Max.)	Dry type air cleaner fitted		Not applicable
18.1.8	Haulage requirements :					
a)	Gross mass of the trailers, (tones):					
	1) Two wheel	Non Evaluative	As specified by the manufacturer	5.0 (D)	5.0	Yes
	2) Four wheel			6.0 (D)	6.0	Yes
b)	Distance travelled / liter of fuel consumption, (km/l):					
	1) Two wheel	Non Evaluative	As specified by the manufacturer	4.0 to 5.0 (D)	6.46 to 6.78	No
	2) Four wheel			4.0 to 5.0 (D)	5.99 to 6.27	No
c)	Fuel consumption, (ml/km/tonne):					
	1) Two wheel	Non Evaluative	As specified by the manufacturer	25 to 30 (D)	29.50 to 30.95	No
	2) Four wheel			25 to 30 (D)	26.60 to 27.80	Yes
18.1.9	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 (R)	No ingress of water and/or mud was observed	Yes
	1) Clutch assembly	-do-				
	2) Brake housings	-do-				
	3) Front axle hubs	-do-				
	4) Engine Oil	-do-				
	5) Transmission Oil	-do-				

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1	2	3	4	5	6	7		
18.1.10	Safety features :							
a)	Guards against moving and hot parts	Evaluative	Belt drives, pulleys, silencer, hydraulic pipes (As per IS 12239 (Part2))		Meets the requirement	Yes		
b)	Lighting arrangement	Evaluative	As per CMVR		Meets the requirement	Yes		
c)	Seating requirements (Tractors having more than 1150 mm rear track width)	Non Evaluative	Should meet the requirements of IS: 12343 (As amended from time to time)		Does not meet the requirement	No		
d)	Technical requirements for PTO shaft	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)		Meets the requirement	Yes		
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 applicable		
h)	1) Maximum travelling speed at rated engine speed in reverse gears, kmph	Evaluative	Should not exceed 20 kmph		11.18 kmph (Meets the requirement)	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 before the delivery of tractor.		Not fitted	Not applicable		
18.1.11	Labelling of tractors (Provision of labelling plate):							
	1) Make	Evaluative	Should conform to the requirements of CMVR along with maximum PTO Power in kW and year of manufacture in numerical form. <table border="1" style="margin-left: 20px;"> <tr> <td>MM</td> <td>YY</td> </tr> </table> Digit 01 – 12 in box No.1 for MM will represent the months and next two digits in box No.2 for YY will represent the year of Manufacturing.	MM	YY		Mahindra	Yes
MM	YY							
	2) Model	Evaluative				Yuvo 275 DI	Yes	
	3) Month & Year of manufacture	Evaluative				10/21	Yes	
	4) Engine number	Evaluative				NMG5HAE00 12	Yes	
	5) Chassis number	Evaluative				MBNSFAE1EM NG00011	Yes	
	6) Maximum PTO power, (kW)	Evaluative			23.17	Yes		

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1	2	3	4	5	6	7
18.1.12	Discard limit for:					
(a)	Cylinder bore diameter, (mm)	Evaluative	To be specified by the manufacturer and supported by the printed literature	89.13	88.895 to 88.911	Yes
(b)	Clearance between piston & cylinder liner at skirt, (mm)	Non Evaluative	To be specified by the manufacturer and supported by the printed literature	0.20	0.095 to 0.010	Yes
(c)	Piston diameter at skirt, (mm)	Non Evaluative		88.15	88.810 to 88.815	Yes
(d)	Ring end gap (mm):					
-	Top comp. ring.	Evaluative	To be specified by the manufacturer and supported by the printed literature	2.5	0.25 to 0.30	Yes
-	2 nd comp. ring.			2.5	0.45 to 0.55	Yes
-	Oil ring.			2.0	0.20 to 0.25	Yes
(e)	Ring groove clearance (mm):					
-	Top comp. ring.	Evaluative	To be specified by the manufacturer and supported by the printed literature	--Tapered rings --		Not Applicable
-	2 nd comp. ring.			0.30	0.070 to 0.072	Yes
-	Oil ring.			0.20	0.048 to 0.050	Yes
(f)	Clearance of main bearings (mm):					
-	Diametrical clearance	Evaluative	To be specified by the manufacturer and supported by the printed literature	0.20	0.062 to 0.070	Yes
-	Crankshaft end float	Evaluative		0.60	0.20	Yes
(g)	Clearance of big end bearings, (mm):					
-	Diametrical	Evaluative	-do-	0.20	0.046 to 0.054	Yes
-	Axial	Evaluative	-do-	0.75	0.20	Yes
(h)	Clearance between king pin and bush, (mm)	Non Evaluative	-do-	0.30	0.081 to 0.089	Not Applicable
(i)	Clearance between centre pin and bush, (mm)	Non Evaluative	-do-	0.30	0.031 to 0.036	Yes
18.1.13	Literature (Submission to test agency):					
(a)	Operator manual	Evaluative	Provided / Not Provided	Provided	Provided	Yes
(b)	Parts Catalogue	Evaluative	Provided / Not Provided	Provided	Provided	Yes
(c)	Workshop/ Service manual	Evaluative	Provided / Not Provided	Provided	Provided	Yes
18.1.14	Fitment of Roll Over Protective Structures (ROPS):					
	For tractor having more than 1150 mm rear track width	Evaluative	ROPS should meet the requirement of IS:1182 or OECD code or equivalent International Standard	Not fitted		Not applicable
18.1.15	Standard Accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor	Provided		Yes
18.1.16	Accessories (optional)	Non Evaluative	Ballast weight, if fitted, should meet the requirement of CMVR	Not Provided		No

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18.2 CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2019):					
Sl. No.	Category of break-downs	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2019	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.	None	Yes
4.	Total breakdowns	Evaluative	In no case, the total number of breakdowns should exceed five, that is, (2 major + 3 minor) or (1 major + 4 minor) or 5 minor breakdowns.	None	Yes

18.3 Conformity with following IS:

- | | | | |
|-------|---|---|-------------------------|
| i) | Guide lines for declaration of power and specific fuel consumption and labelling of agricultural tractors (First revision) [IS10273: 1987 (Reaffirmed in January, 2019)] | : | Conforms |
| ii) | Agricultural tractors - Rear mounted power take-off - Types 1, 2 and 3 (third revision) [IS:4931-1995 (Reaffirmed in January, 2019)] | : | Conforms |
| iii) | Agricultural wheeled tractors - Rear mounted three-point linkage: Part 1 Categories 1, 2, 3 & 4 (fourth revision) [IS 4468(Part-I):1997/ISO 730-1:1994] | : | Conforms |
| iv) | Drawbar for agricultural tractors – Link type [IS 12953:1990 (Reaffirmed October, 2017)]. | : | Conforms |
| v) | Agricultural tractors - Operator's seat technical requirement [IS 12343 –2021]. | : | Does not conform |
| vi) | Guide for safety & comfort of operator of agricultural tractors: Part 1 General requirements: [IS 12239 (PT-1) 1996/ISO 4254-1:1989, 2019] | : | 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 2019)] | : | Does not conform |
| viii) | Guide lines for location and operation of operator controls on agricultural tractors and machinery [IS: 8133-2021] | : | Conforms |
| ix) | Tractors and machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays Part 2 Symbols for agricultural tractors and machinery [IS:6283 (Part-1)- 2006 and IS: 6283 (Part-2)-2007] (Reaffirmed in January, 2019)] | : | Does not conform |
| x) | Agricultural Tractors and Machinery - Lighting device for travel on public roads (IS: 14683-1999) (Reaffirmed in January, 2019) | : | Conforms |

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18.4 Salient Observations:

18.4.1 Laboratory tests:

18.4.1.1 PTO Performance:

The maximum equivalent crankshaft torque has been recorded as **131.9 N-m** against the declaration of **146 N-m**, which does not meet the requirement of IS: 12207-2019 with regard to tolerance limit. This should be looked into for necessary corrective action.

18.4.1.2 Hydraulic Performance:

During hydraulic performance test, the height of lower hitch point was observed as 220 mm & 205 mm on LHS & RHS respectively. Upon this the applicant vide letter No. FD/BVH/BT/YUVO275/21-22/09 dated 01.03.2022 has requested to adjust lift rod length to maintain equal height of lower hitch point i.e. 220 mm on LHS & RHS, which was allowed. This should be looked into for necessary corrective action at production level.

18.4.1.3 Mechanical Vibration:

The amplitude of mechanical vibration on various assemblies marked as (*) in Chapter – 10 of this test report is on higher side. This calls for dampening down of vibrations especially on steering wheel to improve the operational comfort and service life of components.

18.4.1.4 Operator's seat:

- i) Adjustment of driver's mass should be provided as per the above referred standard.
- ii) Vertical distance from Seat Index Point to the centre accelerator pedal has been measured 480 mm against the requirement of 230 to 460 mm.
- iii) Longitudinal distance from Seat Index Point to centre of differential lock pedal was measured 275 mm against the requirement of 410 to 720 mm.
- iv) Vertical distance from Seat Index Point to centre of steering control wheel was measured 190 mm against the requirement of 265 to 385 mm.
- v) Vertical distance from Seat Index Point to foot rest was measured 560 mm against the requirement of 450 to 520 mm.

Above parameters does not meet the requirement of IS: 12343-2021. This should be looked into for necessary corrective action at production level.

18.4.1.5 Operator's work place:

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

Above parameters does not meet the requirement of IS: 12239 (Part-I) 2018. This should be looked into for necessary corrective action at production level.

18.4.1.6 PTO master shield:

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

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18.4.2 Haulage Test:

- i) Distance travelled per litre fuel consumption with two wheel and four wheel trailers was observed as 6.46 to 6.78 km/l & 5.99 to 6.27 km/l against the declaration of 4.0 to 5.0 km/l. This should be looked into for necessary corrective action.
- ii) Specific fuel consumption with two wheel was observed as 29.50 to 30.95 cc/km/ton against the declaration of 25 to 30 cc/km/ton. This should be looked into for necessary corrective action.

18.4.3 Operator's Manual:

Ballasting is recommended as per the technical specifications submitted by applicant, whereas in Page No. 3-3 of Operator's Manual, ballasting is not recommended. This point should be corrected in the Operator's Manual.

18.4 Maintenance / Service Problems:

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

18.5 Recommendation with regard to safety on tractor:

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

- i) Spark arrester should be provided in the exhaust system as per the requirement of IS: 12239 (Part-2)-1999 (Re-affirmed in January, 2019).
- ii) Vertical retainers at both sides of clutch pedal should be provided.
- iii) The working clearance between position and draft control lever of hydraulic system was measured as 50 mm against the minimum requirement 70 mm as per IS: 12239 (Part-2)-1999 (Re-affirmed in 2019).
- iv) Colour code of engine revolution gauge should be provided as per IS: 6283 (Part-1) – 2006 (Re-affirmed in January, 2019) & IS: 6283 (Part-2) – 2007 (Re-affirmed in January, 2019).
- v) Fuel shut-off knob does not remain in "STOP" position as per requirement of IS: 8133-2021.
- vi) Identification of hand controls by colour has not been provided as per the requirement as laid down in Table -5 of IS: 8133-2021.
- vii) 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.

18.6 Adequacy of Literature supplied with machine:



18.6.1 The following literatures were supplied with the test tractor for reference during the test:-

- a) Service manual for Mahindra, Yuvo 275 DI tractor model.
- b) Operator's manual for Mahindra, Yuvo 275 DI tractor model.
- c) Parts catalogue Part-I & II for Mahindra, Yuvo 275 DI tractor model.

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- 18.6.2 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) Safe hitch height for four wheel trailer
 - ii) Ballast masses for different operations

TESTING AUTHORITY:

C.V. CHIMOTE TEST ENGINEER	
P. K. PANDEY DIRECTOR	

Draft test report is compiled by: **Mrs. Poonam Khurasia**, Senior Technical Assistant.

19. APPLICANT'S COMMENTS

Para No.	Our reference	Applicant's comments
19.1	18.4.1.2	Observations will be studied and necessary corrective actions will be initiated.
19.2	18.4.3, 18.6.2 (i) & (ii)	Observations will be studied and necessary corrective actions for improvement in the manuals will be ensured.