

(यह परीक्षण रिपोर्ट 31/08/2025 तक वैध है। / THIS TEST REPORT IS VALID UP TO : 31/08/2025)



**MAHINDRA, 605 DI i TRACTOR
(Brand Name : Arjun Novo)**



सत्यमेव जयते

भारत सरकार

कृषि एवं किसान कल्याण मंत्रालय
कृषि, सहकारिता एवं किसान कल्याण विभाग
मशीनीकरण एवं प्रौद्योगिकी प्रभाग

GOVERNMENT OF INDIA

MINISTRY OF AGRICULTURE AND FARMERS WELFARE

(Department of Agriculture, Cooperation & Farmers Welfare, Mechanization & Technology Division)

केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

ट्रैक्टर नगर, बुदनी (म.प्र.) ४६६ ४४५

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE

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T- 1467/1994/2020	MAHINDRA, 605 DI i (Brand Name : Arjun Novo)
	TRACTOR - Commercial (First Batch Test) (THIS TEST REPORT IS VALID UPTO 31/08/2025)

1. SPECIFICATIONS

- 1.1 Tractor:**
- Make : Mahindra
 Model : 605 DI i
 Brand name : Arjun Novo
 Variant, if any : None
 Type : Four wheeled, Rear wheel drive, Unit construction, General purpose, Agricultural tractor.
- Year of manufacture : FK
 Chassis number : MBNWHBEMEKNF03732
 Country of origin : India
- 1.2 Engine:**
- Make : Mahindra
 Model : MSI457 3A
 Type : Four stroke, naturally aspirated, water cooled, direct injection, diesel engine.
- Serial number : NKE2WDE0270
 Year of manufacture : NA
- 1.2.1 Engine speed (rpm), (Manufacturer's recommended production settings):**
- Maximum speed at no load : 2400 to 2500
 - Low idle speed : 750 to 850
 - Speed at maximum torque : 1100 to 1300
- Rated speed, (rpm):**
- For PTO use : 2100
 - For drawbar use : 2100
- 1.3 Cylinder & Cylinder Head:**
- Number : Four
 Disposition : Vertical, Inline
 Bore/stroke, (mm) : 96/122 (apa)
 Capacity as specified by the applicant, (cc) : 3531
 Compression ratio : 18.3(±0.5) : 1
 Type of cylinder head : Monoblock
 Type of cylinder liners : Wet, replaceable
 Type of combustion chamber : Re-entrant bowl cavity on piston top
 Arrangement of valves : Overhead, inline
- Valve clearance (cold/hot):**
- Inlet valve, (mm) : 0.3/0.4
 - Exhaust valve, (mm) : 0.3/0.4
- 1.4 Fuel System:**
- Type of fuel feed system : Gravity and force feed

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17. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

17.1 On the basis of tests conducted the performance results have been summarized as evaluative (mandatory) and non-evaluative (not-mandatory) parameter 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
17.1.1	PTO Performance :					
a)	Max. power under 2 h test, (kW) (Natural ambient condition)	Evaluative	Declared value to be achieved with a tolerance of: $\pm 5\%$ for PTO power or engine power >26 kW, $\pm 10\%$ for PTO power or Engine power ≤ 26 kW.	37.5 (D)	37.5	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	37.5 (D)	37.5	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+ 10% Max.	251 (D)	248	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	$\pm 8\%$	199.8 (D)	205.6	Yes
e)	Back-up torque, percent	Evaluative	12 percent, min.	18 (D) 12 (R)	20.7	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)	126	Yes
	2) Coolant (liquid)	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)	105	Yes
g)	Engine oil consumption,(g/kWh)	Evaluative	Not exceeding 1% of SFC at max. power under High ambient conditions	2.50 (R) Maximum	0.74	Yes
h)	Smoke level, (m^{-1})	Evaluative	Maximum light absorption coefficient of 3.25 per meter or equivalent BOSCH No. 5.2 or 75 Hat ridge value (As per CMVR)	3.25 (R)	0.27	Yes

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1	2	3	4	5	6	7	
17.1.2 Drawbar performance:							
a)	Maximum drawbar pull with ballast corresponding to 15 percent wheel slip, (kN)	Non Evaluative	Minimum 70% of static mass with ballast	21.16 (D)	27.03	Yes	
				22.41 (R) Minimum			
b)	Maximum drawbar pull without ballast/ with standard ballast corresponding to 15 percent wheel slip, (kN)	Evaluative	Minimum 70% of static mass of tractor without/ standard ballast	16.20 (D)	19.30	Yes	
				17.02 (R) Minimum			
c)	Maximum drawbar power without ballast/ with standard ballast as the case may be, 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.	30.0 (D)	32.6	Yes	
				30.0 (R) Minimum			
d)	Maximum transmission oil temperature (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company.	110 (D)	84	Yes	
17.1.3 Power lift and hydraulic pump performance :							
a)	Maximum lifting capacity throughout the range of lift, (kN):						
	1)	At hitch points	Evaluative	±10 percent	22.0 (D)	23.55	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.	18.0 (D) 8.83 Minimum (R)	13.70	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 minute, (mm)	Non Evaluative	The observed value should not exceed 50 mm	50 (D)	20	Yes	
				50 (R) Maximum			
17.1.4 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)	7.58	Yes
	2)	Hot brake	Evaluative	10	10 (R)	7.88	Yes
b)	Maximum force exerted on the brake pedal to achieve a deceleration of 2.5 m/s ² (N)	Evaluative	600	600 (R)	304 to 352	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, N	Evaluative	Yes / No	Yes (R)	253 to 301	Yes
17.1.5	Noise measurement :					
a)	Maximum ambient noise emitted by the tractor dB(A)	Evaluative	As per CMVR	88 (R)	83	Yes
b)	Maximum noise at operator's ear level dB(A)	Evaluative	As per CMVR	96 (R)	94	Yes
17.1.6	Amplitude of mechanical vibrations at :					
1)	Left foot rest	Non Evaluative	100 microns (max)	100 (R)	31	Yes
2)	Right foot rest		-do-		28	Yes
3)	Seat (with driver seated)		-do-		73	Yes
4)	Steering wheel		do-		32	Yes
17.1.7	Air cleaner oil pull over :					
	Maximum air cleaner oil pull over	Evaluative	0.25 % (max.)	0.25 % (max.)	Dry type air cleaner is provided	Not applicable
17.1.8	Haulage requirements :					
a)	Gross mass of the trailers, (tonne):					
1)	Two wheel	Non	As specified by the manufacturer	5.0 (D)	5.0	Yes
2)	Four wheel	Evaluative		8.0 (D)	8.0	Yes
b)	Distance travelled / litre of fuel consumption, (km/l):					
1)	Two wheel	Non	As specified by the manufacturer	3 to 6 (D)	5.41 to 5.44	Yes
2)	Four wheel	Evaluative		3 to 6 (D)	4.95	Yes
c)	Fuel consumption (ml/km/tonne):					
1)	Two wheel	Non	As specified by the manufacturer	30 to 45 (D)	36.75 to 36.99	Yes
2)	Four wheel	Evaluative		30 to 45 (D)	25.24 to 25.27	No
17.1.9	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
17.1.10	Safety features :					
a)	Guards against moving and hot parts	Evaluative	Belt drives, pulleys, silencer, hydraulics pipes(as per IS-12239 Part 2)		Meet the requirements	Yes
b)	Lighting arrangement	Evaluative	As per CMVR		Meet the requirements	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 requirements	No
d)	Technical requirements for PTO shaft	Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)		Meet the requirements	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 requirements	No
f)	Specifications of linkage drawbar	Evaluative	Should meet the requirements of IS 12953 (As amended from time to time)		Meet the requirements	Yes
g)	Specifications of Swinging drawbar (wherever fitted)	Evaluative	Should meet the requirements 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		(18.01 kmph) Meet the requirements	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 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 applicable	Not applicable

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1	2	3	4	5	6	7	
17.1.11	Labelling of tractors (Provision of labelling plate):						
	1)	Make	Evaluative	Should conform to the requirements of CMVR along-with declared value of PTO in kW and year of manufacture in numerical MM YY Digit 01-12 in box No.1 for MM will represent the month and next two digit in the box No.2 for YY will represent the year of manufacturing	Mahindra	Yes	
	2)	Model	Evaluative		605 DI i	Yes	
	3)	Month & Year of manufacture	Evaluative		FK	No	
	4)	Engine number	Evaluative		NKE2WDE0 270	Yes	
	5)	Chassis number	Evaluative		MBNWHBEME KNF03732	Yes	
	6)	Declaration of PTO power, kW	Evaluative		37.5	Yes	
	7)	Specific fuel consumption (g/kWh)	Evaluative		251	Yes	
17.1.12	Discard limit for:						
(a)	Cylinder bore diameter, (mm)	Evaluative	To be specified by Manufacturer	96.522	96.00 to 96.01	Yes	
(b)	Clearance between piston & cylinder liner at skirt, (mm)	Non Evaluative		0.50	0.110 to 0.112	Yes	
(c)	Piston diameter at skirt, mm	Non Evaluative		95.600	95.898 to 95.900	Yes	
(d)	Ring end gap (mm):						
	-	Top comp. ring.	Evaluative	-do-	2.5	0.35 to 0.40	Yes
	-	2 nd comp. ring.		-do-	2.5	0.90	Yes
-	Oil ring.	-do-		2.0	0.35	Yes	
(e)	Ring groove clearance (mm):						
	-	Top comp. ring.	Evaluative	-do-	0.30	Tapered ring	--
	-	2 nd comp. ring.	-do-	-do-	0.30	0.056 to 0.063	Yes
-	Oil ring.	-do-	-do-	0.25	0.050 to 0.058	Yes	
(f)	Clearance of main end bearings, (mm):						
	-	Diametrical	Evaluative	-do-	0.30	0.062 to 0.083	Yes
-	Crank shaft end float	Evaluative	-do-	0.90	0.12	Yes	
(g)	Clearance of big end bearings, (mm):						
	-	Diametrical	Evaluative	-do-	0.20	0.063 to 0.092	Yes
-	Axial	Evaluative	-do-	0.75	0.25	Yes	
(h)	Clearance between king pin and bush, (mm)	Non Evaluative	-do-	0.20	0.096 to 0.110	Yes	
(i)	Clearance between center pin and bush,(mm)	Non Evaluative	-do-	0.20	0.088 to 0.110	Yes	

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1	2	3	4	5	6	7
17.1.13	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
17.1.14	Fitment of Roll Over Protective Structure (ROPS): for tractors having more than 1150 mm rear track width	Evaluative	ROPS should meet the requirement of IS:11821 or OECD code or equivalent International Standard	Provided	Not fitted	Not applicable
17.1.15	Standard accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor	Provided	Provided	Yes
17.1.16	Accessories (Optional)	Non Evaluative	Ballast weights if fitted should meet the requirement of CMVR.	Provided	Provided	Yes
17.2	CATEGORY OF BREAKDOWNS / DEFECTS :(As per clause 5.0 of IS-12207-2019)					
S. No.	Category of Breakdown	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2019	As observed	Whether meets the requirement (Yes/No)	
1.	Critical breakdown	Evaluative	There is no 'critical breakdown' during the course of testing.	None	Yes	
2.	Major breakdowns	Evaluative	There are not more than 1 major breakdowns and neither of them is of repetitive nature.	None	Yes	
3.	Minor breakdowns	Evaluative	There are not more than 3 minor defects during the test and the frequency of each is not be more than two.	None	Yes	
4.	Total breakdowns	Evaluative	In no case, the total number of breakdowns should exceed four that is, (1 major + 3 minor) or 4 minor breakdowns.	None	Yes	

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17.3 Salient Observations:

17.3.1 Laboratory tests:

17.3.1.1 PTO Performance Test:

- i) The maximum PTO power was recorded as **36.5 kW** and **37.5 kW** in case of previous and present tested samples respectively against the declaration of **37.5 kW**.
- ii) The specific fuel consumption corresponding to maximum power was recorded as **248 g/kWh** and **248 g/kWh** in case of previous and present tested samples respectively against the declaration of **251 g/kWh**.
- iii) The maximum equivalent crankshaft torque was recorded as **205.6 Nm** against the declaration of **199.8 Nm**.
- iv) The backup torque was observed 20.7%.
- v) The maximum PTO power drop of **5.3 %** was observed during natural to high ambient conditions. This should be looked into for necessary corrective action.

17.3.1.2 Hydraulic performance test:

- i) The moment about rear axle with standard frame was calculated as **21.24 kN-m** and the moment about front axle was calculated as **19.19 kN-m**. The moment about rear axle is on higher side as compared to the moment about front axle. It is, therefore, recommended that the lifting capacity of the hydraulic system may be reduced or suitable standard ballast may be provided to avoid the front lifting of the tractor.
- ii) The lifting capacity at hitch point was recorded as **23.55 kN** which is **96.8 %** of total mass of standard ballasted tractor & considered very high & may result in overturning of tractor. Keeping in view the safe operation of the tractor, it should be reduced suitably.

17.3.1.3 Brake performance:

The maximum stopping distance at 25 kmph speed of tractor was recorded as **6.90 meters** and **7.58 meters** in case of previous and present tested samples respectively. The brake performance of the present sample is found deteriorated and calls for improvement keeping in view the safety aspects.

17.3.1.4 Mechanical Vibration:

The amplitude of mechanical vibration on various assemblies marked as (*) in **Chapter - 8** 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.

17.3.1.5 Haulage Test:

- i) The specific fuel consumption (ml/km/ton) in four wheel trailer was recorded as **25.24 to 25.27 ml/km/ton**, against the declaration of **30 to 45 ml/km/ton**, which does not meet the requirement of IS: 12207-2019 with regard to tolerance. This should be looked into for necessary corrective action.

17.3.1.6 Three point linkage:

The parameters of width of ball of lower hitch pin hole & lateral distance from lower hitch point to centre line of tractor does not meet the minimum requirement and some of the parameters conform to Cat. I and some of them conform to Cat. II. Keeping in view the spirit of standardization, necessary improvement may be incorporated.

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17.3.1.7 PTO master shield:

The parameter of PTO master shield “n” does not meet the requirement of IS: 4931-1995. This should be looked into for necessary corrective action.

17.3.1.8 Operator’s seat:

i) The longitudinal distance from Seat Index Point to centre of differential lock pedal does not meet the requirement of IS: 12343-1998. This should be looked into for necessary corrective action.

17.3.1.9 Labelling plate:

The month & year of manufacture embossed on the labelling plate as ‘FK’ and does not meet the evaluative requirement as per IS: 12207-2019. As per IS: 12207-2019, it should be in numerical form on the labeling plate. This should be looked into for necessary corrective action.

17.3.1.10 Field performance:

17.3.1.10.1 Wetland operation (Puddling operation):

No ingress of water and or mud in various assemblies/components was noticed during wetland cultivation of tractor. Hence, it meets the requirements of IS: 11082-1984 (Technical Requirements of Agricultural Tractors for Wetland Operation). The tractor is found suitable for wetland operation (Puddling).

17.4 Maintenance / Service Problems:

No noticeable maintenance or service problems were observed during the test.

17.5 Recommendation with regard to safety on tractor:

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

- i) Provision of spark arrester in the exhaust system.
- ii) The working clearance between the draft control lever and position control lever should be provided as per the requirement of relevant Indian Standard.
- iii) Fuel shut-off knob should remain in “STOP” position.
- iv) Grease lubricant, oil lubricant type and frequency chart be provided as per relevant standard.
- v) Vertical retainness at both sides of pedals should be provided as per relevant standard.

17.6 Adequacy of Literature supplied with machine:

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

- a) Operator’s manual of Mahindra 605 DI i Tractor model
- b) Parts Catalogue of Mahindra 605 DI i Tractor model
- c) Service manual of Mahindra 605 DI i Tractor model

17.6.2 However, these literatures should be brought out in other vernacular languages of India for guidance of users.



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18. CITIZEN CHARTER

Time frame for Testing & Evaluation as per Citizen Charter	Duration of Test	Whether the Test Report is released within the time frame given in Citizen Charter	Remarks
10 Months	08 Months (November, 2019 to June, 2020)	Yes	--

TESTING AUTHORITY:

SHWETABH SINGH
AGRICULTURAL ENGINEER

C.V. CHIMOTE
TEST ENGINEER

J.J.R. NARWARE
DIRECTOR

The report compiled by: Shri Vithato Keyho, Senior Technical Assistant

19. APPLICANT'S COMMENTS

Para No.	Our Reference	Applicant's comments
19.1	17.1.11(3) & 17.3.1.9	We will implement the new labelling plate (MMYY numerical form) on regular production of subject model w.e.f. 01.09.2020.
19.2	17.3.1.4, 17.3.1.6, 17.3.1.8, & 17.5 (ii, iii, iv & v)	Observation will be studied, and necessary action will be incorporated.
19.3	17.6.2	Literatures are available in all language of india.

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ANNEXURE – I

BRIEF SPECIFICATION OF IMPLEMENTS USED DURING FIELD TEST

S. No.	I t e m	Disc Plough	Rotavator
1.	Make	Mahindra	Field king
2.	Type	Mounted	Mounted
3.	No. of bottom / blades/discs	03	42 in 7 flanges
4.	Type of bottom / blades/blades	Concave	Hatchet
5.	Size of bottom / blade/disc, (mm)	660	280 x 85 x 7
6.	Spacing of bottom/flanges/bracket, (mm)	505	245
7.	Lower hitch point span, (mm)	780	800
8.	Mast height, (mm)	460	605
9.	Overall dimensions, (mm):		
	- Length	1950	1100
	- Width	1340	2020
	- Height	1190	1150
10.	Gross mass, (kg)	355	445

ANNEXURE – II

BRIEF SPECIFICATION OF CAGE WHEEL

S. No.	Parameters	Specifications
1.	Type	Full cage wheel
2.	Dia, (mm)	1280
3.	Width, (mm)	850
4.	No. and types of lugs	24, Straight lugs made of M.S. angle section welded to angle iron frame
5.	Size of angle section, (mm)	50 x 50 x 6
6.	Length of lugs, (mm)	425
7.	Spacing of lugs, (mm)	160
8.	Weight of each cage wheels (kg)	145

ANNEXURE- III

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	--
2.	PTO performance test	11.62
3.	Power lift and hydraulic pump performance test	1.0
4.	Drawbar performance test	17.36
5.	Turning ability	0.50
6.	Location of centre of gravity	0.25
7.	Operator's field of vision	--
8.	Brake test	1.75
9.	Noise measurement	1.0
10.	Mechanical vibration test	1.0
11.	Nominal speed test	0.89
B.	FIELD TEST:	
1.	Disc ploughing	10.50
2.	Rotavation	10.59
3.	Wetland cultivation (including water proof)	15.08
C.	HAULAGE TEST:	4.69
D.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	19.48
	TOTAL:	95.71