

(यह परीक्षण रिपोर्ट 30/06/2025 तक वैध है। / THIS TEST REPORT IS VALID UP TO : 30/06/2025)



**MAHINDRA, 605 DI PS
(Brand Name : ARJUN NOVO) TRACTOR**



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

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T-1447/1974/2020	MAHINDRA, 605 DI PS TRACTOR
	(BRAND NAME: ARJUN NOVO)-COMMERCIAL -1st BATCH TEST
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1. SPECIFICATIONS

1.1	Tractor:		
	Make	:	Mahindra
	Model	:	605 DI PS
	Brand name	:	Arjun Novo
	Variant, if any		None
	Type	:	Four wheeled, rear-wheel driven, General Purpose Agricultural Tractor.
	Month & year of manufacture	:	EK
	Chassis number	:	MBNWHBCYEKNE 01042
	Country of origin	:	India
1.2	Engine:		
	Make	:	Mahindra
	Model	:	MSI 452 3A
	Type	:	Four strokes, water cooled, direct injection, natural aspirated, diesel engine.
	Serial number	:	NKE3WBE0001
	Country of origin	:	India
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
	Capacity as specified by the applicant, (cc)	:	3532
	Compression ratio	:	18.3: 1 (± 0.5)
	Type of cylinder head	:	Monoblock
	Type of cylinder liners	:	Wet, replaceable
	Type of combustion chamber	:	Re-entrant bowl cavity on piston head
	Arrangement of valves	:	Overhead, inline
	Valve clearance (cold):		
			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
1.4.1	Fuel tank:		
	Capacity, (l)	:	61.4
	Location	:	Above clutch housing
	Provision for draining of sediments/ water	:	Provided
	Material of fuel tank	:	Metallic
	Water separator	:	Not provided , however a drain plug is provided at the bottom of fuel filter to drain the water

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14. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

14.1 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
14.1.1	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.	33.5 (D)	33.3	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	33.5 (D)	32.8	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+ 10% max.	251 (D)	250	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	$\pm 8\%$	178 (D)	175.6	Yes
e)	Back-up torque, percent	Evaluative	12 percent	15.0 % (D) 12 % (R)	17.6	Yes
f)	Maximum operating temperature, ($^{\circ}\text{C}$)					
	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)	115	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.	112 (D)	94	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. power under High ambient conditions.	2.51 Maximum (R)	0.42	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)	0.09	Yes

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1	2	3	4	5	6	7	
14.1.2	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.	18.6 (D) 19.74 Minimum (R)	23.13	Yes	
b)	Max. drawbar pull without ballasted as the case may be 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.	15.7 (D) 16.54 (R) Minimum	19.12	Yes	
c)	Maximum drawbar power without 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.	26.8 (D) 26.6 (R) Minimum	28.6	Yes	
d)	Maximum transmission oil temperature (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	110 (D)	89	Yes	
14.1.3	Power lift and hydraulic pump performance :						
a)	Maximum lifting capacity throughout the range of lift, (kN):						
	1)	At hitch points	Evaluative	Tolerance of ± 10%	21.5 (D)	22.95	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.	13.34 (D) 7.84 (R) Minimum	12.73	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	00	Yes
14.1.4	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)	7.60	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	298 to 304	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	265 to 330	Yes
14.1.5	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
14.1.6	Amplitude of mechanical vibrations at:					
1)	Left foot rest	Non Evaluative	100 microns (max)	100(R)	158	No
2)	Right foot rest				125	No
3)	Seat (with driver seated)				70	Yes
4)	Steering wheel				251	No
14.1.7	Air cleaner:					
	Air cleaner oil pull over, (%)	Evaluative	0.25 % (Maximum)	0.25 % (Maximum)	Dry type air cleaner fitted	Not applicable
14.1.8	Haulage requirements :					
a)	Gross mass of the trailers, (tones):					
	Two wheel	Non Evaluative	Yes / No	5.0 (D)	5.0	Yes
	Four wheel	Non Evaluative	Yes / No	8.0 (D)	8.0	Yes
b)	Distance travelled / liter of fuel consumption, (km/l):					
	Two wheel	Non Evaluative	Yes / No	3 to 6 (D)	4.60 to 5.17	Yes
	Four wheel	Non Evaluative	Yes / No	3 to 6 (D)	4.32 to 4.43	Yes
c)	Fuel consumption (ml/km/tonne):					
	Two wheel	Non Evaluative	Yes / No	30 to 45 (D)	38.68 to 43.52	Yes
	Four wheel	Non Evaluative	Yes / No	30 to 45 (D)	28.23 to 28.95	No
14.1.9	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)	The major breakdowns were not observed in the field test during initial commercial testing of the tractor model vide test report No. T-954/1472/2015, February, 2015	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		
14.1.10	Safety features :							
a)	Guards against moving and hot parts	Evaluative	Belt drives, pulleys, silencer, hydraulic pipes (As per IS 12239 (Part2))	--	Conforms	Yes		
b)	Lighting arrangement	Evaluative	As per CMVR	--	Conforms	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 conform	No		
d)	Technical requirements for PTO shaft	Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)	--	Conforms	Yes		
e)	Dimensions of three point linkage	Non Evaluative	Should meet the requirements of IS: 4468 (Part-I) (As amended from time to time)	--	Conforms	Yes		
f)	Specifications of linkage drawbar	Evaluative	Should meet the requirements of IS: 12953 (As amended from time to time)	--	Conforms	Yes		
g)	Swinging drawbar (wherever fitted)	Evaluative	Should meet the requirement of IS: 12362 (Part 3) (As amended from time to time)	--	Not fitted	Not applicable		
h)	1) Maximum travelling speed at rated engine speed in reverse gears, Kmph	Evaluative	Should not exceed 20 Kmph	--	17.22 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		
14.1.11	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: 5px auto;"><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		--	605 DI PS	Yes		
	3) Month & Year of manufacture	Evaluative		--	EK	No		
	4) Engine number	Evaluative		--	NKE3WBE 0001	Yes		
	5) Chassis number	Evaluative		--	MBNWHBCY EKNE01042	Yes		
	6) Maximum PTO power, (kW)	Evaluative		--	33.5	Yes		
	7) Specific fuel consumption (g/kWh)	Evaluative	--	251	Yes			

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1	2	3	4	5	6	7
14.1.12	Discard limit for:					
(a)	Cylinder bore diameter, (mm)	Evaluative	To be specified by the manufacturer and supported by the printed literature	96.522 (D)	95.990 to 96.018	Yes
(b)	Clearance between piston & cylinder liner at skirt, (mm)	Non Evaluative		0.50 (D)	0.087 to 0.106	Yes
(c)	Piston diameter at skirt, (mm)	Non Evaluative		95.60 (D)	95.912 to 95.928	Yes
d)	Ring end gap (mm):					
	- Top comp. ring.	Evaluative	-do-	2.5 (D)	0.40 to 0.45	Yes
	- 2 nd comp. ring.		-do-	2.5 (D)	1.00 to 1.05	Yes
- Oil ring.	-do-		2.0 (D)	0.40 to 0.50	Yes	
e)	Ring groove clearance (mm):					
	- Top comp. ring.	Evaluative	-do-	0.30 (D)	Tapered	Yes
	- 2 nd comp. ring.		-do-	0.30 (D)	0.055 to 0.064	Yes
- Oil ring.	-do-		0.25 (D)	0.043 to 0.057	Yes	
f)	Clearance of main bearings (mm):					
	- Diametrical clearance	Evaluative	-do-	0.30 (D)	0.052 to 0.85	Yes
- Crankshaft end float	Evaluative	0.90 (D)		0.25	Yes	
g)	Clearance of big end bearings, (mm):					
	- Diametrical	Evaluative	-do-	0.20 (D)	0.018 to 0.059	Yes
	- Axial	Evaluative	-do-	0.75 (D)	0.15	Yes
h)	Clearance between king pin and bush, (mm)	Non Evaluative	-do-	0.20 (D)	0.080 to 0.107	Yes
i)	Clearance between centre pin and bush, (mm)	Non Evaluative	-do-	0.20 (D)	0.198 to 0.209	Yes
14.1.13	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
14.1.14	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 Applicable	Not applicable
14.1.15	Standard Accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor	--	Provided	Yes
14.1.16	Accessories (optional)	Non Evaluative	Ballast weight, if fitted, should meet the requirement of CMVR	--	Provided	Yes

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14.2	CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2019):					
Sl. No.	Category of breakdowns	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 one and neither of them should be repetitive in nature	None	Yes	
3.	Minor	Evaluative	Not more than three 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 four, that is, (1 major + 3 minor) or 4 minor breakdowns.	None	Yes	

14.3 Salient Observations:

14.3.1 Laboratory tests:

14.3.1.1 PTO Performance Test:

- i) The maximum PTO power was observed as **33.3 kW** against the declaration of **33.5 kW**, which meets the requirement of IS: 12207-2019 with regard to tolerance limit.
- ii) The specific fuel consumption corresponding to maximum power was recorded as **250 g/kWh** against the declaration of **251 g/kWh**, which meets the requirement of IS: 12207-2019 with regard to tolerance limit.
- iii) The maximum equivalent crankshaft torque was recorded as **175.6 N-m** against the declaration of **178 N-m**, which meets the requirement of IS: 12207-2019 with regard to tolerance limit.
- iv) The backup torque is **17.6 %**, which meets the requirement of IS: 12207-2019 with regard to tolerance limit.
- v) The drop in maximum power under natural and high ambient condition was recorded as **6.4%**. This should be looked into for corrective action.

14.3.1.2 Drawbar performance test:

- i) The maximum drawbar power under unballasted condition was observed as **27.7 & 28.6 kW** against the declaration of **26.8 kW** in case of previous & present sample respectively which meets the requirement of IS: 12207-2019 with regard to tolerance.
- ii) The maximum drawbar pull under unballasted condition was observed as **19.94 & 19.12 kN** against the declaration of **16.54 kN** in case of previous & present sample respectively, which meets the requirement of IS: 12207-2019 with regard to tolerance.
- iii) The maximum drawbar pull with ballast corresponding to 15% wheel slip was recorded as **27.36 kN & 23.13 kN** in case previous & present sample respectively. The pull recorded in case of present sample **18.1 %** lower than the previous sample. This indicates that the overall drawbar performance of tractor was found deteriorated. This should be looked into

14.3.1.3 Hydraulic performance test:

- i) Maximum lifting capacity throughout the range of lift at hitch point and standard frame was recorded as **22.95 kN & 12.73 kN** respectively against the declaration of **21.5 kN & 13.34 kN** respectively, which meets the evaluative requirement of IS: 12207-2019.
- ii) The lifting capacity at hitch point was observed as **97.1%** of total mass of unballasted tractor, should be examined for its safe operation.

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- iii) The moment about rear axle with standard frame was calculated as **19.60 kN-m**. Whereas, the moment about front axle was calculated as **19.17 kN-m** under unballasted condition and ballasted condition. The moment about rear axle is on higher side as compared to the moment about front axle even under ballasted condition. It is, therefore, recommended that the lifting capacity of the hydraulic system may be reduced suitably or standard ballast at front axle may be provided to avoid the front lifting of the tractor during operation.

14.3.1.4 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 especially on steering control wheel to improve the operational comfort and service life of components.

14.3.1.5 Haulage Test:

Specific fuel consumption (mm/km/tonne) with two wheel and four wheel was recorded as **28.23 to 28.95 ml/km/tonne** and **29.98 ml/km/tonne** against the declaration of **30 to 45 ml/km/tonne** respectively. Which does not meet the requirement of IS: 12207-2019. This should be looked into for necessary corrective action.

14.3.1.6 Labelling plate:

The month & year of manufacture embossed on the labelling plate as '**EK**', which does not meet the evaluative requirement of **IS: 12207-2019**. This should be in numerical form on the labelling plate.

14.4 Maintenance / Service Problems:

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

14.5 Recommendation with regard to safety on tractor:

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

- i) Longitudinal distance from SIP to center line of differential lock pedal should be as per the requirement of relevant IS code.
- ii) Vertical retainness should be provided at both side of clutch.
- iii) There should be provision for spark arresting device in exhaust system.
- iv) The working clearance around the draft & position controls should be provided as per IS: 12239 (Part-2) – 1999 (Re-affirmed in 2014).

14.6 Adequacy of Literature supplied with machine:

14.6.1 The supplied literature was found adequate

- a) Operators Manual for Mahindra 605 DI PS, 605 DI i , 605 DI MS,605 DI i 4WD S+ ,605 DI MS 4WD S+, 605 DI I Cab tractor models.
- b) Spare part's catalogue for Mahindra 605 DI PS, 605 DI i , 605 DI MS,605 DI i 4WD S+ ,605 DI MS 4WD S+, 605 DI I Cab tractor models.
- c) Workshop service manual for tractor part –I ,II & III for Mahindra 605 DI PS, 605 DI i ,605 DI MS,605 DI i 4WD S+ ,605 DI MS 4WD S+, 605 DI I Cab tractor models..

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



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15. Citizen charter

Test duration under citizen charter	Duration of Test	Whether the report released within time frame given in the citizen charter	Remark
10 Months	07 Months (November, 2019 to May, 2020)	Yes	None

TESTING AUTHORITY:

C.S. RAGHUWANSHI
AGRICULTURAL ENGINEER

C.V. CHIMOTE
TEST ENGINEER

J.J.R. NARWARE
DIRECTOR

The report compiled by: **Sh. Shivkumar Sharma**, Senior Technical Assistant.

16. APPLICANT'S COMMENTS

Para No.	Our reference	Applicant's comments
16.1	14.6.2	Literatures are available in all languages of India.
16.2	14.3.1.3 (ii),(iii), 14.5(i,ii,iii & iv)	Observation will be studied and necessary action will be incorporated.

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ANNEXURE- I

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS	HOURS
1.	Running-in (Engine & transmission)	47.0
2.	PTO performance test	11.2
3.	Drawbar performance test	19.2
4.	Power lift and hydraulic pump performance test	1.0
5.	Brake test	2.8
6.	Noise measurement	2.6
7.	Mechanical vibration test	0.8
8.	Nominal speed test	1.1
B.	HAULAGE TEST	4.9
C.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	4.8
TOTAL:		95.4