व्यावसायिक परीक्षण रिपोर्ट संख्या/No. : T- 1893/2424/2024

INITIAL COMMERCIAL TEST REPORT माह/Month : October, 2024

Application Reference No. 28/2023-24/112

(यह परीक्षण रिपोर्ट 31/10/2029 तक वैध है / THIS TEST REPORT IS VALID UPTO 31/10/2029)



Make of Agricultural Tractor: New Holland

Model : 3630 TX Plus + UG A5

Manufactured by : CNH Industrial (India) Pvt. Ltd.,

Plot No-3, Udyog Kendra, Greater Noida-201306, Distt. Gautam Budh Nagar, Uttar Pradesh, India



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.प.) 466 445 SRM MACHINERY TRAINING & TESTING INSTITUT

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE
TRACTOR NAGAR, BUDNI (M.P.) 466 445

(An ISO 9001:2015 Certified Institute)

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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: October Test Report No.: T- 1893/2424/2024 Year: 2024



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

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[C] Tractor manufacturer's name and : M/s CNH Industrial (India) Pvt. Ltd.

address

Plot No-3, Udyog Kendra, Greater Noida-201306, Distt. Gautam Budh Nagar, Uttar

Pradesh, India

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

[C] Selected for test by : The Ministry vides 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:

-Engine : 50 -Transmission : 50

[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 : New Holland

[C] Model : 3630 TX PLUS+ UG A5

[C] Type : Rear wheel drive, Standard Agricultural Tractor

[C] Month & year of manufacture : 03 / 24 [D] Country of origin : India

1.1.2 Numbers:

[D] 1st Serial No. of prototype : NHN36300ZNH624717 [C] Serial No. : NHN36300ZRC685210

1.2 Engine:

[D] Manufacturer's address : M/s CNH Industrial India Pvt Ltd.

Plot No. 03, Udyog Kendra, Greater Noida-201306, Distt. Gautam Budh Nagar, Uttar

Pradesh, India

[C] Make : FPT

[C] Model : 8035.25.736

[C] Type : Four strokes, turbocharged, water cooled, direct

injection, diesel engine.

[C] Serial No. : 436171 DX

1.2.1 Cylinders:

[C] Number/disposition : Three / vertical inline

[D] Bore / Stroke, (mm)
 [D] Capacity, cm³
 [D] Compression ratio
 [D] Arrangement of valves
 [D] Cylinder liners
 [D] Dry, replaceable

[D] Type of combustion chamber : Re-entrant cavity on piston crown

1.2.2 Fuel system:

[C] Fuel feed system : Gravity and force feed

Filter(s):

[C] Make : New Holland

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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:

		_		nancing are summarized as unde			T
SI. No.	Ch	aracteristic	Category (Evaluative / Non- Evaluative)	Requirements as per IS: 12207-2022	Values declared by the applicant/ (D) Requirement (R)	As observed	Whether meets the requirem- ents (Yes/No)
1		2	3	4	5	6	7
	dated stand	d 28th of July, 2 Is for requiremer	.022). (In the er	inistry's Office Memorandum nsuing table, 'D' stands for applic st code)			
6.1.1	PTO	Performance:					
a)	Maximum power under 2 h test, (kW) (Natural ambient condition)		Evaluative	Declared value to be achieved with a tolerance of: ±5% for PTO power and or engine power >26 kW. ±10% for PTO power and or engine ≤ 26 kW.	33.6 (D)	32.7	Yes
b)		er at rated e speed, (kW)	Non Evaluative	-do-	33.6 (D)	32.4	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)		Evaluative	Should not be more than 10% of declared value.	252 (D)	258	Yes
d)		num equivalent shaft torque,	Non- Evaluative	± 8%	230 (D)	216.0	Yes
e)		-up torque, ent	Evaluative	Should be min. 12%	12 (D) 12 (R)	46.3	Yes
f)	Maxir	mum operating	temperature, (°C):			
	1)	Engine oil	Evaluative	The declared value should not exceed the Max value specified by the oil company and the observed value under natural ambient/high ambient condition should not exceed the declaration.	132 (D)	114	Yes
	2)	Coolant	Evaluative	Observed value should not exceed the declared value or boiling point of coolant at radiator cap pressure whichever is lower. The boiling point of the coolant at radiator pressure shall be provided by the applicant.	124 (D)	101	Yes
g)	Engin const (g/kW	umption,	Evaluative	Not exceeding 1% of SFC at Max power under natural ambient condition. The value would be based on the test conducted under natural ambient condition	2.58 Maximum (R)	0.23	Yes
h)	Smok	ke 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). Max Smoke level shall be reported out of 6 readings tested as per IS 12062 and observed value should be well within the required limits.	3.25 per meter Maximum (R)	0.57	Yes

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1		2	3	4	5	6	7
6.1.2	Dra	Drawbar performance:					
a)	with corr 15 slip,	esponding to percent wheel (kN)	Non- Evaluative	Minimum 70% of static mass of tractor with ballast.			Not applica ble
b)	with balla corr 15		Evaluative	In case of tractors having total static mass ≥ 1500 kg, Min 70% of static mass of tractor without ballast or with standard ballast, as the case may be. In case of light weight tractors having ≤ 1500 kg total static mass of tractor, Min. 65% of static mass of tractor without ballast or with standard ballast, as the case may be.	15.1 (D) 15.86 (R) Minimum	19.19	Yes
c)	Maximum drawbar power without ballast/ 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.	26.9 (D) 26.2 (R) Minimum	27.4	Yes
d)	Maximum transmission oil temperature, (°C)		Evaluative	The declared value should not exceed the recommendation by the oil manufacturer. The observed value should not exceed the declared value throughout the drawbar test.	132 (D)	88	Yes
	 Applicant vide letter no. PD-PV 28 dated 05.05.2024 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 standard ballast was conducted only. The applicant vide letter no. PD-PV 41 dated 09.07.2024 has informed that the tractor's operating range is from 1000 engine rpm to rated engine rpm under full load condition and hence requested to restrict the engine speed up to 1000 rpm during drawbar performance test, which was allowed. 						
6.1.3		ver lift and hydr		p to 1000 engine rpm only erformance:			
a)	Max			ut the range of lift, (kN):			
	1)	At hitch points	Evaluative	Should not be less than 90% of declared value.	13.7 (D) 12.33 (R) Minimum	20.35	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.	9.8 (D) 7.70 (R) Minimum	17.77	Yes
b)	the poin of the each interdura	val for a total	Non- Evaluative	The observed value should not exceed 50 mm.	50 (D) Maximum	25	Yes

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1	2	3	4	5	6	7
6.1.4	Brake performan	ce at 25 kmph:				
a)	Maximum stoppin	g distance at a	force, equal to or less than 600	N on brake	pedal wi	th road
	ballast, (m):					
	1) Cold brake		10	10 (R)	6.90	Yes
	2) Hot brake	Evaluative	10	10 (R)	7.19	Yes
b)	Whether parking		Yes / No	Yes	Yes	Yes
	brake is effective					
	at a force of 600 N					
	at foot pedal (s) o					
	400 N at hand lever	۱ ا				
6.1.5	OPTIONAL TEST	·e.				
0.1.5		_	d for any optional tests, there	fore no onti	onal test	s were
	conducted.	nas not appliet	a for any optional tests, there	ioic no opti	Onai tost	3 11010
6.1.6	Safety features:					
a)	Guards agains		Belt drives, pulleys,	Confo	rms	Yes
	moving and ho	t	silencer, hydraulic pipes [As			
b)	parts Lighting	Evaluative	per IS 12239 (Part2)] As per CMVR	Confo	rme	Yes
, D)	arrangement	Lvaldative	As per civivit	Conio	11113	163
c)	Seating	Non-	Should meet the	Does	not	No
0,	requirements	Evaluative	requirements of IS: 12343	meet		''
	(Tractors having		(As amended from time to	require	ment	
	more than 1150		time)			
	mm rear tracl width)					
d)	Technical	Non-	Should meet the	Meets	the	Yes
	requirements fo		requirements of IS: 4931 (As	require		
	PTO shaft		amended from time to time)	'		
e)	Dimensions of Non- Should meet the		Does	not	No	
	three-point linkage	e Evaluative	requirements of IS 17231:	meet		
			2019 (As amended from time to	require	ment	
			time)			
f)	Specifications of	f Non-	Should meet the	Meets	the	Yes
	linkage drawbar	Evaluative	requirements of IS: 12953	require	ment	
			(As amended from time to			
	Curinging droubs	r Non-	time)	Not pro	uidad	Not
g)	Swinging drawba (wherever fitted)	Evaluative	Should meet the requirement of IS: 12362	Not pro	vided	Not appli-
	(wholever integral	Evaluativo	(Part 3) (As amended from			cable
			time to time)			
h)	Audible warning	g Evaluative	If tractor travel speed in	Not fit	ted	Not
	signal on tractor		reverse gear exceeds 20 kmph, an audible warning			appli- cable
			signal on tractor shall get			Cable
			activated.			
			A sticker to the effect that			
			"operating the tractor beyond 20 kmph speed in reverse			
			gear is not safe" should be			
			prominently displayed.			

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1		2		3	4 5 6			7		
6.1.7	Labelling of tractors (Provision of labelling plate):									
	1)	Make		Evaluativ		Should conform to the		/ HOLLA		Yes
	2)	Model		Evaluativ	/e	requirements of CMVR		TX PLU	JS+	Yes
						along-with declared value		UG A5		
	3) Month &			Evaluativ	/e	of PTO in kW, Specific	03 / 24			Yes
		Year of				fuel consumption (SFC)				
	manufacture		corresponding to	10010101		,				
	4)	Engine		Evaluative		maximum power in g/kWh	43	36171D>	(Yes
		number		Frankrichten		and year of manufacture in	NII INIOC	2000700	20050	\/aa
	5)	Chassis		Evaluativ	/e	numerical form	NHN36	300ZRC	6852	Yes
	-0/	number		En en la constitu		MM YY	10		\/	
	6)	Maximum	,or	Evaluativ	/e	Digit 01-12 in box No. 1 for		33.6		Yes
		PTO pow (kW)	ver,			MM will represent the				
	7) Specific fuel Evaluative		month and next two digits		252		Yes			
	1)	consumption		⊏vaiuati\	/ C	in the box No. 2 for YY will		232		168
		(g/kWh)	JII,			represent the year of				
		(9/10711)				manufacturing.				
6.1.8	Lite	rature (Sub	miss	ion to tes	t ager	ncy):				
(a)		erator manua		Evalua		The printed literature in	Pı	rovided		Yes
(b)		ts Catalogue		Evalua		booklet form should be	Pı	rovided		Yes
(c)		rkshop/		Evalua		provided as per IS 8132		rovided		Yes
(-,		vice manual				and should submit along				
						with the test sample.				
6.1.9	Fitr	nent of Roll	Ove	r Protecti	ve Stru	uctures (ROPS):				
		tractor ha		g Evaluative		ROPS should meet the	Provided			Yes
		e than 1150				requirement of IS:11821				
	rea	r track width				or OECD code or				
						equivalent International				
						Standard.				
6.1.10	Sta	ndard		Evalua	tive	Trailer hitch, front tow	Pı	rovided		Yes
	Accessories					hook, linkage drawbar				
					should be provided with					
						tractor				
6.1.11		essories		Nor	3 ,		Pi	rovided		Yes
	(opt	tional)		Evaluative		should meet the				
						requirement of CMVR				
6.2	CA	TEGORY OF	BRI	EAKDOW	NS/D	EFECTS (As per clause 5.0 o	f IS:122	07-2022)):	
S. No.		ategory of		tegory		Requirements		served		ether
		ak-downs		aluative		as per IS: 12207-2022			mee	ets the
			1	Non-					Requ	irement
			Eva	luative)					(Ye	s/No)
1.	Crit	ical	Eva	aluative	There	e is no 'critical breakdown'	No	one	,	Yes
					durin	g the course of testing.				
2.	Maj	or	Eva	aluative		e are not more than 2 major	No	one	`	⁄es
					breal	kdowns and neither of them				
					shou	ld be of repetitive nature.			<u></u>	
3.	Min	or	Evaluative Ther			e are not more than 5 minor	No	one	\	⁄es
			defed	cts during the test and						
		neith								
						titive nature.			<u></u>	
4.	Tota		Ev	aluative		case, the total number of	No	one		Yes
	brea	akdowns				kdowns should exceed five				
					that i	s, (2 major + 3 minor) or (1				
						r + 4 minor) or 5 minor				
						kdowns.				
										

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6.3 Conformity with following IS:

i) Guidelines for declaration of power and specific fuel consumption and labeling of : Conforms agricultural tractors (First revision) [IS:10273 -1987 (Reaffirmed Year 2019)]

ii) Agricultural tractors - Rear mounted power take-off - Types 1, 2 and 3 (third : Conforms revision) [IS:4931-1995 (Reaffirmed Year 2019)]

iii) Agricultural wheeled tractors – Rear mounted three-point linkage: Categories : Does not 1N,1, 2N, 2, 3N, 3, 4N & 4 [IS:17231-2019] conform

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

Agricultural tractors. Operator's seat technical requirement [IS

v) Agricultural tractors- Operator's seat technical requirement [IS12343 - 2021] : **Does not conform**

vi) Guide for safety & comfort of operator of agricultural tractors: Part 1 General : Does not requirements (first revision): [IS 12239 (Part 1) - 2018] conform

vii) Tractors and machinery for agriculture and forestry – Technical means for : Does not ensuring safety Part 2: Tractors (first revision) (IS 12239 (Part 2) 1999) conform (Reaffirmed Year 2019)]

viii) Guide lines for location and operation of operator controls on agricultural : **Does not** tractors and machinery [IS: 8133 - 2021] **conform**

ix) Tractors and machinery for agriculture and forestry, powered lawn and garden : equipment - Symbols for operator controls and other displays Part2 Symbols for agricultural tractors and machinery [IS: 6283(Part-1) - 2006 (Reaffirmed Year 2019)]

x) Agricultural Tractors and Machinery-Lighting device for travel on public roads: Conforms (IS:14683-1999) (Reaffirmed Year 2019)]

6.4 Salient Observations:

6.4.1 Laboratory tests:

6.4.1.1 PTO performance test

The applicant vide letter no. PD-PV 41 dated 09/07/2024 has informed that the tractor's operating range is from 1000 engine rpm to rated engine rpm under full load condition and hence requested to restrict the engine speed up to 1000 rpm during PTO performance test, which was allowed. Accordingly, the test was conducted up to 1000 engine rpm only.

6.4.1.2 Hydraulic performance test:

During lifting capacity test at coupled frame, the angle of rotation of mast was observed as 9.5 degree over the full range of lift against the minimum requirement of 10.0 degree and does not meet the non evaluative requirement of IS: 12224-1987. **This should be looked into necessary corrective action**.

6.4.1.3 Three-point linkage:

The following parameters does not meet the requirements of IS: 17231 (Part-I) – 2019 and needs to be looked into for necessary corrective actions:

The dimensions viz. dia. of hitch pin hole of upper & lower hitch Point, width of ball of lower hitch points, lateral distance from lower hitch point to center line of tractor, distance from the end of power take off to center of lower hitch point does not meet the requirements of IS: 17231 (Part-I) – 2019. This should be looked into for corrective action.

6.4.1.4 Operator's seat:

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

- i) Provision for adjustment of driver's mass has been specified as 50 to 120 kg against the requirement of 40 to 100 kg. It should be looked into for corrective action.
- ii) Inclination of seat towards rear direction is measured as 17 degree against the requirement of 3 to 12 degree. It should be looked into for corrective action.

Conforms

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- iii) Vertical distance of SIP to center line of accelerator & differential lock pedal are measured as 495 & 475 mm against the requirement of 230 to 460 mm respectively. It should be looked into for corrective action.
- iv) Vertical distance of SIP to foot rest is measured as 565 mm against the requirement of 450 to 520 mm. It should be looked into for corrective action.
- v) Longitudinal distance of SIP to center line of differential lock pedal has been measured as 200 against the requirement of 410 to 720 mm. It should be looked into for corrective action.

6.4.1.5 Operator's work place:

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

- i) A vertical retainness on inner side of clutch & brake pedal have not been 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.

6.4.1.6 PTO master shield:

PTO master shield has not been provided on tractor.as it is requirement of IS12239 (part-II) This should be looked into for necessary corrective action.

6.4.1.7 Specification of Tractor

Discrepancies in the specification between the Specification sheet are as under:

i)	Hydraulic oil capacity is mentioned as 30 I and gearbox housing oil capacity is				
	mentioned as 27.0 I in the application whereas hydraulic oil is common with gearbox				
	oil. This should be corrected.				
ii)	First chassis / serial number of prototype tractor has not been announced. This				
	should be looked into for necessary corrective action.				
iii)	Some parameters regarding the ROPS in clause 1.13 have not been announced in				
	the application sheet. 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:

- 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.
- Working clearance between position control lever and draft control lever is measured as 50 mm, remote assembly lever and mud guard is measured as 40 mm against the minimum requirement of 70 mm of IS: 12239 (part II)-2019

Identification of hand control by colour coding for single function stop control, key switches, ignition switches & hand throttle have not been provided as per the requirement as laid down in IS 8133-2021.

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's Manual for "New Holland 3630TX Plus+ UG A5, 3630TX Plus+ UG 4WD A6, 3630 TX Plus+ A7, 3630TX Plus+ 4WD A8 Tractor model
 - **b)** Parts catalogue (Part-I&II) or "New Holland 3630TX Plus+ UG A5" Tractor model.
 - c) Service manual (PART I, II & III) for New Holland 3630TX Plus+ UG A5, 3630TX Plus+ UG 4WD A6, 3630TX Plus+ A7, 3630 TX A7, 3630TX 4WD A8 tractor models

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

SHIVKUMAR SHARMA AGRICULTURAL ENGINEER	Show
V. S. SHINDE SENIOR AGRICULTURAL ENGINEER	191 Corianizati
Dr. P.P. RAO DIRECTOR	P. P. Rao

Draft Test Report compiled by Shivkumar Sharma, Agricultural Engineer.

7. APPLICANT'S COMMENTS

Para no.	Our reference	Applicant's comments
7.1	6.4.1.2, 6.4.1.3, 6.4.1.4, 6.4.1.5, & 6.4.1.6	Your valuable comments and suggestions for improvement are well taken. Under our policy of continuous product improvement, these aspects are being looked into further, and we will take appropriate action to eliminate these deviations soon wherever necessary.
7.2	6.4.1.7 & 6.6	We will study this further, and appropriate actions will be taken.

ANNEXURE-I

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	Applicant has declared that it has already been conducted on their work place.
2.	PTO performance test	16.3
3.	Power lift and hydraulic pump performance test	0.9
4.	Drawbar performance test	5.1
5.	Brake performance test	2.0
6.	Nominal speed test	1.2
B.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	4.8
	TOTAL:	30.3