

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)
COMMERCIAL TEST REPORT (INITIAL)

संख्या/No. : T-1690/2221/2022
माह/Month : December, 2022

Application Reference No. 28/2021-22/109

(यह परीक्षण रिपोर्ट 31/12/2027 तक वैध है / THIS TEST REPORT IS VALID UPTO 31/12/2027)



NEW HOLLAND, 3600 A1 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)

केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

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(An ISO 9001:2015 Certified Institute)

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T-1690/2221/2022	NEW HOLLAND, 3600 A1 TRACTOR - COMMERCIAL (INITIAL)
	THIS TEST REPORT IS VALID UPTO: 31/12/2027

Manufacturer : M/s. CNH Industrial (India) Private Limited, Plot No.-3, Udyog Kendra, Greater Noida – 201 306, Distt. Gautam Budh Nagar, Uttar Pradesh.

Test requested by (applicant) : The manufacturer

Selected for test by : The testing authority

Place of running-in : At testing Institute

Duration of said running-in, (h):

- Engine : 50

- Transmission : 50

Method of Selection : The test sample was selected randomly out of five tractors from the production line by the representative of testing authority through online mode.

Details of tractors made available for random selection	
S. No.	Chassis serial Number
1	NHN36000ZNC595944
2	NHN36000ZNC595946
3	NHN36000ZNC595947
4	NHN36000ZNC595948
5	NHN36000ZNC595950

1. SPECIFICATIONS

- 1.1 Tractor:**
- Make : New Holland
- Model : 3600 A1
- Brand name, if any : None
- Type : Rear Wheel Drive, Standard Agricultural Tractor.
- Month & year of manufacture : 03 / 2022
- Chassis number : NHN36000ZNC595948
- Country of origin : India
- 1.2 Engine:**
- Manufacturer's address : M/s. CNH Industrial (India) Private Limited, Plot No.-3, Udyog Kendra, Greater Noida – 201 306, Distt. Gautam Budh Nagar (U.P.)
- Make : FPT
- Model : 8035.05D.943
- Type : Four strokes, liquid cooled, naturally aspirated, direct injection, diesel engine.
- Serial number : 348311DX
- Country of origin : India
- 1.2.1 Engine speed (rpm), (Manufacturer's recommended production settings):**
- Maximum speed at no load : 2380 to 2520
- Low idle speed : 700 to 800
- Speed at maximum torque : 1100 to 1500

T-1690/2221/2022	NEW HOLLAND, 3600 A1 TRACTOR - COMMERCIAL (INITIAL)
	THIS TEST REPORT IS VALID UPTO: 31/12/2027

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.	31.7	31.2	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	31.7 (D)	31.2	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+ 10% max.	255 (D)	259	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	$\pm 8\%$	185 (D)	176.6	Yes
e)	Back-up torque, percent	Evaluative	12 percent	12 (D) 12 (R)	24.5	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.	134(D)	119	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.	124(D)	93	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. Power under High ambient conditions.	2.55 Maximum (R)	0.435	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)	0.33	Yes
18.1.2	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.	21.14 (D) 19.28 Minimum (R)	22.27	Yes

T-1690/2221/2022	NEW HOLLAND, 3600 A1 TRACTOR - COMMERCIAL (INITIAL)
	THIS TEST REPORT IS VALID UPTO: 31/12/2027

1	2	3	4	5	6	7	
b)	Max. drawbar pull without 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.	13.67 (D)	15.21	Yes	
				13.49 (R) Minimum			
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.	25.36 (D)	26.6	Yes	
				25.0 (R) Minimum			
d)	Maximum transmission oil temperature, (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	132 (D)	100	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%	17.65 (D)	18.73	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.	14.12 (D) 7.34 (R) Minimum	14.74	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	15	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)	7.40	Yes
	2)	Hot brake	Evaluative	10	10 (R)	7.52	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	192 to 229	Yes	
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)	79	Yes	
b)	Maximum noise at operator's ear level, dB(A)	Evaluative	As per CMVR	96 (R)	94	Yes	

T-1690/2221/2022	NEW HOLLAND, 3600 A1 TRACTOR - COMMERCIAL (INITIAL)
	THIS TEST REPORT IS VALID UPTO: 31/12/2027

1	2	3	4	5	6	7
18.1.6	Amplitude of mechanical vibrations at:					
	1) Left foot rest	Non Evaluative	100 microns (max.)	100 (R)	58	Yes
	2) Right foot rest				53	Yes
	3) Seat (with driver seated)				129	No
	4) Steering wheel				134	Yes
18.1.7	Air cleaner:					
	Maximum air cleaner oil pull over, (%)	Evaluative	0.25 (Max.)	0.25 (Max.)	0.21	Yes
18.1.8	Haulage requirements:					
a)	Gross mass of the trailers, (tonne):					
	Two wheel	Non Evaluative	As specified by the manufacturer	5.0 (D)	5.0	Yes
	Four wheel	Non Evaluative		7.0 (D)	7.0	Yes
b)	Distance travelled / liter of fuel consumption, (km/l):					
	Two wheel	Non Evaluative	As specified by the manufacturer	4.0 to 6.0 (D)	4.65 to 4.70	Yes
	Four wheel	Non Evaluative		4.0 to 6.0 (D)	4.35 to 4.40	Yes
c)	Fuel consumption, (ml/km/tonne):					
	Two wheel	Non Evaluative	As specified by the manufacturer	25 to 50 (D)	42.55 to 43.04	Yes
	Four wheel	Non Evaluative		25 to 50 (D)	32.47 to 32.81	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-				
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)	Does not meet the requirement	No	

T-1690/2221/2022	NEW HOLLAND, 3600 A1 TRACTOR - COMMERCIAL (INITIAL)
	THIS TEST REPORT IS VALID UPTO: 31/12/2027

1	2	3	4	5	6	7		
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		10.14 (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: 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		New Holland	Yes
MM	YY							
	2) Model	Evaluative			3600 A1	Yes		
	3) Month & Year of manufacture	Evaluative			03/2022	Yes		
	4) Engine number	Evaluative			348311DX	Yes		
	5) Chassis number	Evaluative			NHN36000ZN C595948	Yes		
	6) Maximum PTO power, (kW)	Evaluative		31.7	Yes			
18.1.12	Discard limit for:							
(a)	Cylinder bore diameter, (mm)	Evaluative	To be specified by the manufacturer and supported by the printed literature	104.204	104.008 to 104.025	Yes		
(b)	Clearance between piston & cylinder liner at skirt, (mm)	Non Evaluative		0.50	0.156 to 0.167	Yes		
(c)	Piston diameter at skirt, (mm)	Non Evaluative		Ring groove clearance exceeds 0.25 mm with new ring	103.856 to 103.869	Yes		
d)	Ring end gap (mm):							
	- Top comp. ring.	Evaluative	To be specified by the manufacturer and supported by the printed literature	1.50	0.45 to 0.60	Yes		
	- 2 nd comp. ring.			1.50	0.45 to 0.55	Yes		
	- Oil ring.			1.80	0.30 to 0.40	Yes		
e)	Ring groove clearance (mm):							
	- Top comp. ring.	Evaluative	To be specified by the manufacturer and supported by the printed literature	0.25	0.114 to 0.115	Yes		
	- 2 nd comp. ring.			0.25	0.065 to 0.071	Yes		
	- Oil ring.			0.25	0.044 to 0.047	Yes		
f)	Clearance of main bearings (mm):							
	- Diametrical clearance	Evaluative	To be specified by the manufacturer and supported by the printed literature	0.50	0.079 to 0.098	Yes		
	- Crankshaft end float	Evaluative		0.50	0.20	Yes		

T-1690/2221/2022	NEW HOLLAND, 3600 A1 TRACTOR - COMMERCIAL (INITIAL)
	THIS TEST REPORT IS VALID UPTO: 31/12/2027

1	2	3	4	5	6	7	
(g)	Clearance of big end bearings, (mm):						
	-	Diametrical	Evaluative	-do-	0.50	0.103 to 0.110	Yes
	-	Axial	Evaluative	-do-	0.75	0.35	Yes
(h)	Clearance between king pin and bush, (mm)	Non Evaluative	-do-	0.50	0.151 to 0.185	Yes	
(i)	Clearance between centre pin and bush, (mm)	Non Evaluative	-do-	0.50	0.168 to 0.203	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		Fitted	Yes	

18.2 CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2019):					
S. 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)** Guidelines for declaration of power and specific fuel consumption and labeling of agricultural tractors (First revision) [IS:10273 - 1987 (Reaffirmed Year 2019)] : **Conforms**
- ii)** Agricultural tractors - Rear mounted power take-off - Types 1, 2 and 3 (third revision) [IS:4931-1995 (Reaffirmed Year 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 (Reaffirmed in 2022)] : **Does not conform**
- iv)** Drawbar for agricultural tractors – Link type [IS 12953:1990 (Reaffirmed Year 2022)] : **Conforms**
- v)** Agricultural tractors- Operator's seat technical requirement [IS12343 - 2021] : **Does not conform**

T-1690/2221/2022	NEW HOLLAND, 3600 A1 TRACTOR - COMMERCIAL (INITIAL)
	THIS TEST REPORT IS VALID UPTO: 31/12/2027

- vi) Guide for safety & comfort of operator of agricultural tractors:Part 1 General requirements (first revision):[IS 12239 (Part 1) - 2018] : **Does not conform**
- vii) Tractors and machinery for agriculture and forestry – Technical means for ensuring safety Part 2: Tractors (first revision) (IS 12239 (Part 2) 1999) (Reaffirmed Year 2019)] : **Does not conform**
- viii) Guide lines for location and operation of operator controls on agricultural tractors and machinery [IS: 8133 - 2021] : **Does not 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) and IS: 6283 (Part-2) – 2007 (Reaffirmed Year 2019)] : **Conforms**
- x) Agricultural Tractors and Machinery-Lighting device for travel on public roads (IS:14683-1999) (Reaffirmed Year 2019)] : **Conforms**

18.4 Salient Observations:

18.4.1 Laboratory tests:

18.4.1.1 Three point linkage:

The dimensions viz. diameter of upper hitch pin hole, diameter of lower hitch pin hole, width of balls at lower hitch and the lateral distance from lower hitch point to centre line of tractor does not meet the requirement of IS: 4468 -1997 (Part-1). This should be looked into for necessary corrective action.

18.4.1.2 Operator’s seat:

- i) Provision for adjustment of driver’s mass has been specified as 50 to 120 kg against the requirement of 40 to 100 kg.
- ii) Vertical adjustment of seat (upward and downward from the mid position) has been observed as ± 20 mm against the minimum requirement and optimum requirement of ± 30 mm and ± 50 mm respectively.
- iii) Vertical distance from SIP to centre of accelerator pedal has been measured as 520 mm against the requirement of 230 to 460 mm.
- iv) Vertical distance from SIP to centre of differential lock pedal has been measured as 510 mm against the requirement of 230 to 460 mm.
- v) Longitudinal distance from SIP to centre of differential lock pedal has been measured as 220 mm against the requirement of 410 to 720 mm.
- vi) Vertical distance from SIP to centre of steering control wheel has been measured as 230 mm against the requirement of 265 to 385 mm.

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

18.4.1.3 Operator’s work place:

- i) Vertical retainer is not provided on inner sides 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.

18.4.1.4 PTO master shield:

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

18.5 Recommendation with regard to safety on tractor:

- i) The PTO shaft master shield has not been provided.
- ii) The working clearance between draft control lever and position control lever has been measured as 45 mm against the minimum requirement of 70 mm.
- iii) The working clearance between range selection lever and PTO clutch lever has been measured as 30 mm against the minimum requirement of 70 mm.
- 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.

Above parameters should be looked into for necessary corrective action.

18.6 Wheel Rims:

- i) The sizes of drive wheel rims were found to be "W12 x 28", against the declaration of "W12 x 28", vide specification sheet submitted by you. It must be looked into for necessary corrective action.
- ii) Rule 95 A (2) of CMVR, 1989 read in conjunction with IS: 13154- 2015 provides for "The Agricultural Tractor manufacturer shall select ONLY THAT RIM SIZE AS RECOMMENDED BY THE TYRE MANUFACTURER." In this case, the rim size RECOMMENDED by IS: 13154-2015 and by ITTAC manual for tyre size 14.9-28 is "W13". An immediate corrective action is required to be taken even in stand point of view with compliance to CMVR, 1989.

18.7 Maintenance / Service Problems:

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

18.7 Adequacy of Literature supplied with machine:

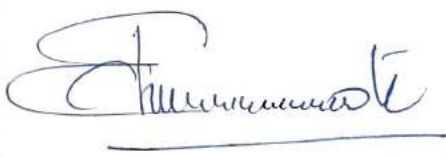
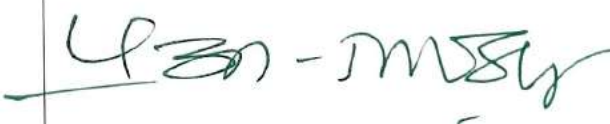
18.7.1 The following literatures were supplied with the test tractor for reference during the test: -

- a) Operator's Manual for "New Holland 3600, 3600 A1, 3600 A2, 3600 A3, 3600 A4, 3600 A5, 3600-2 A, 3600-2 A1, 3600-2 A2, 3600-2 A3, 3600-2 A4 & 3600-2 A5" tractor models.
- b) Parts Catalogue for "New Holland 3600 A1" tractor model.
- c) Service Manual Part I, Part II & Part III for "New Holland 3600, 3600 A1, 3600 A2, 3600 A3, 3600 A4, 3600 A5, 3600-2 A, 3600-2 A1, 3600-2 A2, 3600-2 A3, 3600-2 A4 & 3600-2 A5" tractor models.

18.7.2 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) Safe hitch height
- ii) Recommended ballast masses for different operations

TESTING AUTHORITY:

<p>C.V. CHIMOTE TEST ENGINEER</p>	
<p>P. K. PANDEY DIRECTOR</p>	

Draft test report compiled by: **Partha Lodh**, Senior Technical Assistant

T-1690/2221/2022	NEW HOLLAND, 3600 A1 TRACTOR - COMMERCIAL (INITIAL)
	THIS TEST REPORT IS VALID UPTO: 31/12/2027

19. APPLICANT'S COMMENTS

Para no.	Our reference	Applicant comments
18.1	18.4.1.1, 18.4.1.2, 18.4.1.3, 18.4.1.4 & 18.7.2	Your valuable comments and suggestions for improvements are well taken. Under our policy of continuous product improvement, these aspects are further being looked into. Further, we will take appropriate actions to eliminate these deviations soon wherever necessary.
18.2	18.5 & 18.6	We will study this further, and appropriate actions will be taken.

ANNEXURE- I

BRIEF SPECIFICATION OF MATCHING IMPLEMENTS AS DECLARED BY APPLICANT

S. No.	Parameters	Disc Plough	Rotavator
1	Make	Field King	Shaktimaan
2	Type	Mounted	Mounted
3	No. of Discs / Blades	Two	30 in 6 flanges
4	Type of Discs / Blades	Plain, concave	L shape
5	Size of Discs / Blades, (mm)	650	110 x 50 x 5
6	Spacing of Discs /Flanges, (mm)	560	235
7	Lower hitch point span, (mm)	860	770
8	Mast height, (mm)	615	545
9	Overall Dimensions, (mm):		
	Length	1850	1040
	Width	855	1130
	Height	1200	1000
10	Gross Mass, (kg)	295	320

ANNEXURE-II

BRIEF SPECIFICATION OF MATCHING CAGE WHEELS DECLARED BY APPLICANT

S. No.	Parameters	Specification
1	Type	Full cage wheel
2	Outer dia. (mm)	1280
3	Width (mm)	850
4	No. & Type of Lugs	24, straight lugs made of MS angle section welded to angle iron frame
5	Size of angle section, (mm)	50 x 50 x 6
6	Length of lug, (mm)	425
7	Spacing of lug, (mm)	160
8	Weight of each cage wheel (kg)	140

T-1690/2221/2022	NEW HOLLAND, 3600 A1 TRACTOR - COMMERCIAL (INITIAL)
	THIS TEST REPORT IS VALID UPTO: 31/12/2027

ANNEXURE-III

BRIEF SPECIFICATION OF TRAILER DECLARED AS MATCHING TRAILER BY APPLICANT

S. No.	Item	Trailer	Trailer
1.	Type of trailer	Semi - Trailer	Semi – Trailer
2.	Number of axles	Single	Double
3.	Un laden Weight of Trailer, kg	1670	2800
4.	Fully laden Weight of Trailer, Tons (Kg)	Not specified	Not specified
5.	Overall dimensions of Trailer, (mm):		
	Overall Width	1870	2140
	Overall Length	4180	5785
	Overall Height	2175	2110
	Wheel Base	Not applicable	2835
	Wheel Track	1600	1740(Front) & 1765(Rear)
6.	Dimension of fitted Platform, (mm):		
	Length	3040	4225
	Width	1830	2135
	Height from ground	1190	1305
7.	Brakes of Trailer	Not Provided	Not Provided

ANNEXURE-IV

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	100.0
2.	PTO performance test	11.3
3.	Power lift and hydraulic pump performance test	1.0
4.	Drawbar performance test	13.1
5.	Turning ability& Location of centre of gravity	0.7
6.	Operator's field of vision	--
7.	Brake test	2.0
8.	Noise measurement	1.3
9.	Mechanical vibration test	0.7
10.	Air cleaner oil pull over	3.5
10.	Nominal speed test	0.8
B.	FIELD TEST:	
1.	Disc ploughing	10.8
2.	Rotavation	10.8
3.	Puddling (including 5.0 hours water proof test)	15.8
C.	HAULAGE TEST:	5.0
D.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	10.6
TOTAL:		187.4