प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट संख्या/No. : T-1762/2293/2023 INITIAL COMMERCIAL TEST REPORT माह/Month : August, 2023

Application Reference No. 28/2022-23/100

(यह परीक्षण रिपोर्ट 31/08/2028 तक वैध है / THIS TEST REPORT IS VALID UPTO 31/08/2028)



Make of Agricultural Tractor: New Holland

Model : BLUE SERIES SIMBA 20

Manufactured by : M/s. 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.प्र.) 466 445

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE

TRACTOR NAGAR, BUDNI (M.P.) 466 445

(An ISO 9001:2015 Certified Institute)

E-mail: fmti-mp@nic.in Web site: http://www.fmttibudni.gov.in Telephone: 07564-299003

Page 1 of 33

THIS TEST REPORT IS VALID UPTO: 31/08/2028

IMPORTANT INFORMATION

The Government of India, Ministry of Agriculture and Farmers' Welfare has directed, vide an 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: August	Test Report No.: T-1762/2293/2023	Year: 2023
		1



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

E-mail: fmti-mp@nic.in

Web site: http://www.fmttibudni.gov.in

Telephone: 07564-299003

T-1762/2293/2023 New Holland, BLUE SERIES SIMBA 20 - INITIAL COMMERCIAL TEST THIS TEST REPORT IS VALID UPTO: 31/08/2028

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

address

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

Uttar Pradesh, India

[D] Location of tractor assembly M/s Captain Tractors Pvt. Ltd.

Padavala Road, Tah. Kotda Sangani, Veraval (Shapar) Distt. Rajkot Gujrat-360024, India

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

[C] Selected for test by : The Ministry vide 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 (h):**

-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 (trade name) : BLUE SERIES SIMBA 20

[C] Type : Rear Wheel Drive, Standard Agricultural Tractor.

[C] Month & year of manufacture : 10/22 [D] Country of origin : India

1.1.2 Numbers:

[D] 1st Serial No. of prototype : NB2221000243 [C] Serial No. : NB2221000243

1.2 Engine:

[D] Manufacturer's address : M/s Captain Tractors Pvt. Ltd.

Padavala Road, Tah. Kotda Sangani, Veraval (Shapar) Distt. Rajkot Gujrat-360024, India

[C] Make : CAPTAIN [C] Model : CT 195

[C] Type : Four stroke, naturally aspirated, liquid cooled,

direct injection, diesel engine

[C] Serial No. : CG 1141

1.2.1 Cylinders:

[C]Number/disposition: One, vertical[D]Bore / Stroke, (mm): 102 /116[D]Capacity, cm³: 947.4

T_1	762	12203	/2023

New Holland, BLUE SERIES SIMBA 20 - INITIAL COMMERCIAL TEST

THIS TEST REPORT IS VALID UPTO: 31/08/2028

6. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

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:

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
	MANDATORY TES		TS: (As per M	inistry's Office Memorandum	No. 13-17/	2021-M&	T (I&P)
		d 28 th of July, 2	2022).				
6.1.1	1	Performance:	T =				1
a)	unde (kW)	mum power r 2 h test, (Natural ent 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.	10.0 (D)	9.6	Yes
b)	Power at rated engine speed, (kW)		Non Evaluative	-do-	10.0 (D)	9.5	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)		Evaluative	Should not be more than 10% of declared value.	280 (D)	278	Yes
d)	crank (Nm)	valent kshaft torque,	Non Evaluative	± 8%	55 (D)	49.6	No
e)	perce		Evaluative	Should be min. 12%	12 (D) 12 (R)	19.8	Yes
f)		mum operating		°C):		T	1
	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.	120 (D)	110	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.	110 (D)	95	Yes
g)	(g/kV	umption, Vh)	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	2.78 Maximum (R)	0.84	Yes
h)	Smo	oke 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)	0.08	Yes

	CENTRAL FARM MACHINERY TRAINING AND TESTING INSTITUTE – BUDNI	Pa
--	---	----

New Holland, BLUE SERIES SIMBA 20 - INITIAL COMMERCIAL TEST

THIS TEST REPORT IS VALID UPTO: 31/08/2028

1	2	3	4	5	6	7
6.1.2	Drawbar performa	nce:				
а)	Max. drawbar pull with ballast corresponding to 15 percent wheel slip, (kN)	Non Evaluative	Minimum 70% of static mass of tractor with ballast.	*	*	*
b)	Max. drawbar pull with unballast corresponding to 15 percent wheel slip, (kN)	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.	5.83 (D) 5.48 (R) Minimum	7.28	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.	7.5 (D) 7.2 (R) Minimum	8.4	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.	120 (D)	64	Yes

*Remark:

Applicant vide letter No. PD-PV 210145 dated 24.07.2023 has requested not to conduct the ballasted drawbar performance & ten-hour drawbar test which was allowed as per the additional guidelines for testing of tractors as per new regime of testing of tractors vide a OM No. 13-32/2023-M&T(I&P) (FTS-125476) dated 16.05.2023. Accordingly, only unballasted drawbar performance test was conducted.

6.1.3	Pov	Power lift and hydraulic pump performance:						
a)	Maximum lifting capacity throughout the range of lift, (kN):							
	1)	At hitch	Evaluative	Should not be less than 90%	8.33 (D)	9.22	Yes	
		points0		of declared value.	7.50 (R)			
					Minimum			
	2)	With the	Evaluative	The lift capacity should at	6.0 (D)	6.55	Yes	
		standard		least be 24 kg/PTO kW and it	2.26 (R)			
		frame		should be 21.5 kg/engine kW	Minimum			
				where the tractor is not				
				provided with a PTO shaft.				

New Holland, BLUE SERIES SIMBA 20 - INITIAL COMMERCIAL TEST

THIS TEST REPORT IS VALID UPTO: 31/08/2028

1	2	3	4	5	6	7
b)	Maximum drop in	Non	The observed value should	50 (D)	0	Yes
D)		Evaluative	not exceed 50 mm.	Maximum	U	165
	the height of the	Evaluative	not exceed 30 mm.	IVIAXIIIIUIII		
	point of application of the force after					
	each 5 minutes					
	interval for a total					
	duration of 30					
	Minutes, (mm)					1
6.1.4	Brake performance			O. N. a.a. b.aal.a		ll
a)	11 0	distance at a i	orce, equal to or less than 600	J in on brake	pedai wit	n road
	ballast, (m):	Frankratica	40	40 (D)	0.00	\/
	1) Cold brake	Evaluative	10	10 (R)	6.88	Yes
	2) Hot brake	Evaluative	10	10 (R)	7.09	Yes
b)	Whether parking	Evaluative	Yes / No	Yes	Yes	Yes
	brake is effective at a force of 600 N at					
	foot pedal (s) or 400					
	N at hand lever					
6.1.5		· As the annlic	cant has not applied for any	ontional test	s therefo	re no
0.1.5	optional tests was		cant has not applied for any t	optional tos	.5, 11101010	
6.1.6	Safety features :	oonaaotoa.				
a)	Guards against	Evaluative	Belt drives, pulleys, silencer,	Meets	the	Yes
a)	moving and hot	Lvaidative	hydraulic pipes [As per IS	require		100
	parts		12239 (Part2)]	require	HOTH	
b)	Lighting	Evaluative	As per CMVR	Confo	rme	Yes
, D)	arrangement	Lvaldative	7.6 per envir	Como	1113	163
c)	Seating	Non	Should meet the	Not appl	icable	
L)	requirements	Evaluative	requirements of IS: 12343 (As	(Max. track v		
	(Tractors having	Lvaldative	amended from time to time)	mm at front		
	more than 1150		,			
	_			mm at	eai)	
	mm rear track width)					
۵۱	Technical	Non	Should meet the	Meets	tho	Yes
d)		Evaluative	requirements of IS: 4931 (As			165
	requirements for PTO shaft	Evaluative	amended from time to time)	require	Heni	
۵)	Dimensions of	Non	Should meet the	Does	not	No
e)	three point linkage	Evaluative	requirements of IS: 4468	meet		NO
	linee point iinkage	Evaluative	(Part-I) (As amended from			
			time to time)	require	ment	
f)	Specifications of	Non	Should meet the	Meets	the	Yes
	linkage drawbar	Evaluative	requirements of IS: 12953 (As	require	ment	
	_		amended from time to time)			
g)	Swinging drawbar	Non	Should meet the requirement	Not prov	/ided	Not
	(wherever fitted)	Evaluative	of IS: 12362 (Part 3) (As			appli-
			amended from time to time)			cable
h)	Audible warning	Evaluative	If tractor travel speed in reverse	Not fit		Not
	signal on tractor		gear exceeds 20 kmph, an audible warning signal on tractor	(10.65 k	mph)	appli-
			shall get activated.			cable
			A sticker to the effect that			
			"operating the tractor beyond 20			
			kmph speed in reverse gear is not			
			safe" should be prominently displayed.			
	<u> </u>		alopiayou.	1		

New Holland, BLUE SERIES SIMBA 20 - INITIAL COMMERCIAL TEST

THIS TEST REPORT IS VALID UPTO: 31/08/2028

1	2		3	4	5	6	7
6.1.7	Lak	pelling of tracto	rs (Provision o	f labelling plate):			
	1)	Make	Evaluative	Should conform to	the	NEW	Yes
				•	MVR	HOLLAND	
	2)	Model	Evaluative	along-with declared		BLUE SERIES	Yes
				of PTO in kW, Specific		SIMBA 20	
	3)	Month &	Evaluative		SFC)	10/22	Yes
		Year of		corresponding .	to		1
		manufacture		maximum power in g			
	4)	Engine	Evaluative	and year of manufactu	ure in	CG 1141	Yes
		number		numerical form	-	NID 0004000040	
	5)	Chassis	Evaluative	MM YY		NB 2221000243	Yes
	0)	number	F -1 -0 -	Digit 01-12 in box No.	_	40	
	6)	Maximum	Evaluative	MM will represent		10	Yes
		PTO power, (kW)		month and next two d the box No. 2 for Y	_		1
	7)	Specific fuel	Evaluative		_	280	Yes
	7)	consumption,	Evaluative	represent the yea manufacturing.	r of	200	168
		(g/kWh)		manufacturing.			1
		(0 /					
6.1.8		erature (Submis		• •			
(a)	-	erator manual	Evaluative	The printed literatur		Provided	Yes
(b)		ts Catalogue	Evaluative	booklet form should		Provided	Yes
(c)		rkshop/	Evaluative	provided as per IS		Provided	Yes
	Ser	vice manual		and should submit a	along		
	with the test sample.						
0.4.0	F:4.		an Duata ations C	'			
6.1.9				tructures (ROPS):	tha	Not fitted	Not
6.1.9	For	tractor having	er Protective S Evaluative	tructures (ROPS):		Not fitted	Not
6.1.9	For mo	tractor having re than 1150		tructures (ROPS): ROPS should meet requirement of IS: 1	1821	Not fitted	Not applicable
6.1.9	For mo mm	tractor having re than 1150 n rear track		tructures (ROPS): ROPS should meet requirement of IS: 1 or OECD code	1821 or	Not fitted	
6.1.9	For mo	tractor having re than 1150 n rear track		tructures (ROPS): ROPS should meet requirement of IS: 1 or OECD code equivalent Internate	1821 or	Not fitted	
	For mo mm wid	tractor having re than 1150 n rear track th	Evaluative	tructures (ROPS): ROPS should meet requirement of IS: 1 or OECD code equivalent Internat Standard.	1821 or tional		applicable
6.1.10	For mo mm wid	tractor having re than 1150 n rear track		tructures (ROPS): ROPS should meet requirement of IS: 1 or OECD code equivalent Internat Standard. Trailer hitch, front	or tional	Not fitted Provided	
	For mo mm wid	tractor having re than 1150 n rear track th	Evaluative	tructures (ROPS): ROPS should meet requirement of IS: 1 or OECD code equivalent Internat Standard. Trailer hitch, front hook, linkage dra	or tional tow wbar		applicable
	For mo mm wid	tractor having re than 1150 n rear track th	Evaluative	tructures (ROPS): ROPS should meet requirement of IS: 1 or OECD code equivalent Internat Standard. Trailer hitch, front	or tional tow wbar		applicable
	For mo mm wid Sta Acc	tractor having re than 1150 n rear track th	Evaluative	tructures (ROPS): ROPS should meet requirement of IS: 1 or OECD code equivalent Internat Standard. Trailer hitch, front hook, linkage dra should be provided	or tional tow wbar with		applicable
6.1.10	For mo mm wid Sta Acc	tractor having re than 1150 n rear track th ndard cessories	Evaluative Evaluative	tructures (ROPS): ROPS should meet requirement of IS: 1 or OECD code equivalent Internat Standard. Trailer hitch, front hook, linkage dra should be provided tractor	or tional tow wbar with	Provided	applicable Yes
6.1.10	For mo mm wid Sta Acc	re tractor having re than 1150 n rear track th ndard cessories	Evaluative Evaluative Non	tructures (ROPS): ROPS should meet requirement of IS: 1 or OECD code equivalent Internat Standard. Trailer hitch, front hook, linkage dra should be provided tractor Ballast weight, if f	tow wbar with	Provided	yes Not

New Holland, BLUE SERIES SIMBA 20 - INITIAL COMMERCIAL TEST

THIS TEST REPORT IS VALID UPTO: 31/08/2028

6.2	CATEGORY	OF BREAKDO	OWNS / DEFECTS (As per clause 5	.0 of IS:12207-20)22):
S. No.	Category of break-downs	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2022	As observed	Whether meets the Requirement (Yes/No)
1.	Critical	Evaluative	There is no 'critical breakdown' during the course of testing.	None	Yes
2.	Major	Evaluative	There are not more than 2 major breakdowns and neither of them should be of repetitive nature.	None	Yes
3.	Minor	Evaluative	There are not more than 5 minor defects during the test and neither of them should of repetitive nature.	One*	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.	One	Yes

^{*} During hydraulic performance test of lifting capacity at coupled frame leakage of hydraulic oil was noticed from secondary delivery pipe of hydraulic system. Upon which applicant vide letter No. PD-PV210150 dated 28.07.2023 has requested for inspection and brazing of crack found on hydraulic oil secondary delivery pipe (Part No. 91732177), which was allowed. This defect was considered as 'Major defect Mj-21' but to be treated as 'Minor defect' as per Note 1 below Annexure – B of IS: 12207 – 2022 as the same pipe was refitted after repair and lifting capacity test at coupled frame was conducted.

6.3 Conformity with following IS:

- Guidelines for declaration of power and specific fuel consumption and : Conforms labeling of 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: Part 2 : Does not Categories 1N (third revision) [IS:4468(Part-2) 1993 (Reaffirmed in 1998)] conform
- iv) Drawbar for agricultural tractors Link type [IS 12953:1990 (Reaffirmed Year : Conforms 2022)]
- v) Guide for safety & comfort of operator of agricultural tractors:Part 1 General : Does not requirements (first revision):[IS 12239 (Part 1) 2018] conform
- vi) Tractors and machinery for agriculture and forestry Technical means for ensuring safety Part 2: Tractors (first revision) (IS 12239 (Part 2) 1999) conform (Reaffirmed Year 2019)]
- vii) Guide lines for location and operation of operator controls on agricultural : Does not tractors and machinery [IS: 8133 2021] conform
- viii) 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)]
- 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:

i) The maximum equivalent crankshaft torque was recorded as 49.6 Nm against the declaration of Nm, which does not meet the Non-evaluative requirement of IS: 12207 – 2022. This should be looked into for necessary corrective action.

New Holland, BLUE SERIES SIMBA 20 - INITIAL COMMERCIAL TEST

THIS TEST REPORT IS VALID UPTO: 31/08/2028

ii) During the PTO performance test under high ambient condition, engine speed fluctuation was recorded from 2031 to 2156 rpm. This should be looked into for necessary corrective action.

6.4.1.2 Hydraulic performance test:

During hydraulic performance test of lifting capacity at coupled frame leakage of hydraulic oil was noticed from secondary delivery pipe of hydraulic system. Upon which applicant vide letter No. PD-PV210150 dated 28.07.2023 has requested for inspection and brazing of crack found on hydraulic oil secondary delivery pipe (Part No. 91732177), which was allowed. This defect was considered as 'Major defect **Mj-21**' but to be treated as 'Minor defect' as per Note 1 below Annexure – B of IS: 12207 – 2022 as the same pipe was refitted after repair and lifting capacity test at coupled frame was conducted. This should be looked into for necessary corrective action.

6.4.1.2 Three-point linkage:

The following parameters does not meet the requirements of IS: 4468 (Part-2) – 1993 and needs to be looked into for necessary corrective actions:

The dimensions viz. diameter of hitch pin hole of upper hitch points, distance from end of PTO to centre of lower hitch points & power/movement range does not meet the requirements of IS:4468 (Part-2) – 1993. This should be looked into for necessary corrective action.

6.4.1.3 Operator's work place:

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

- i) Vertical retainers on inner side of clutch pedal are not 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.

6.4.1.4 PTO master shield:

The following parameters does not meet the requirement of IS: 12239 (Part-II) -2019.

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

6.4.1.5 Discrepancies in the specification between the Specification sheet and Operator's manual are as under:

S. No.	Description	As per Specification Sheet	As per Operator's manual
a)	Coolant capacity, (I)	3.25	2.8 (Page No. 7-5)
b)	Engine oil, (I)	2.40	2.5 (Page No. 7-5)

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:

- i) Identification of hand controls by colour has not been provided as per the requirement as laid down in Table 5 of IS: 8133-2021.
- **ii)** Fuel shutoff knob does not remain in stop position without application of sustained manual effort as per the requirement of IS: 8133-2021.
- iii) 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.
- iv) Distance between engine start & stop control was measured 300 mm against the maximum requirement of 150 mm, which does not meet the requirement as laid down in Table 1 of IS: 8133-2021.

New Holland, BLUE SERIES SIMBA 20 - INITIAL COMMERCIAL TEST

THIS TEST REPORT IS VALID UPTO: 31/08/2028

v) The working clearance between draft control lever & position control lever, between PTO engaging lever & high-low gear lever and between parking brake lever & RHS mudguard have been measured as 40 mm, 40 mm & 30 mm respectively against the minimum requirement of 70 mm as per the requirement of IS: 12239 (Part II) - 2019.

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 Manual for "New Holland, BLUE SERIES SIMBA 20" tractor model.
 - b) Parts catalogue for "New Holland, BLUE SERIES SIMBA 20 4WD & BLUE SERIES SIMBA 20 2WD" tractor model.
 - c) Service manual (Part-I & Part-II) for "New Holland, BLUE SERIES SIMBA 20 4WD & BLUE SERIES SIMBA 20 2WD" tractor model.
- 6.7.2 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) Recommended ballast masses for different operations.
 - ii) Specification of recommended matching implements for field operation & trailer for haulage operation.
 - iii) Recommended gross mass of trailer for haulage operation.
 - iv) Coolant recommended and water coolant ratio.

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

C. V. CHIMOTE TEST ENGINEER	Thumanamus V
A. K. UPADHYAY DIRECTOR (I/C)	

Draft Test Report compiled by Sh. C. K. Tijare, Agricultural Engineer

7. APPLICANT'S COMMENTS

Para no.	Our reference	Comments
7:1	6.4.1.2, 6.4.1.3, 6.4.1.4, 6.6 & 6.7.2	Your valuable comments and suggestions for improvements are well taken. Under our policy of continuous product improvement, these aspects are being looked into further, and we will take appropriate actions to eliminate these deviations soon wherever necessary.
7.2	6.4.1.1, 6.4.1.2 & 6.4.1.5	We will study this further, and appropriate actions will be taken.

T-1762/2293/2023

New Holland, BLUE SERIES SIMBA 20 - INITIAL COMMERCIAL TEST

THIS TEST REPORT IS VALID UPTO: 31/08/2028

ANNEXURE - I

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	Applicant has declared it to be conducted on their work place.
2.	PTO performance test	15.7
3.	Power lift and hydraulic pump performance test	0.9
4.	Drawbar performance test	3.6
5.	Brake performance test	1.6
6.	Nominal speed test	0.9
В.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	6.1
	TOTAL:	28.8