व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक) COMMERCIAL TEST REPORT (Initial) संख्या / No. : T-1499/2026/2020 माह / Month : December, 2020

(यह परीक्षण रिपोर्ट 31/12/2023 तक वैध है। / THIS TEST REPORT IS VALID UP TO : 31/12/2023)



JOHN DEERE 5050D V8 TRACTOR



भारत सरकार कृषि एवं किसान कल्याण मंत्रालय कृषि, सहकारिता एवं किसान कल्याण विमाग 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

ट्रैक्टॅर नगर, बुदनी (म.प्र.) ४६६ ४४५

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE (An ISO : 9001 - 2015 Certified Institute)

Tractor Nagar, Budni (M.P.) 466 445

E-mail fmti-mp@nic.in Website : http://www.fmttibudni.gov.in

Telephone : 07564 - 234729, 234743

Page 1 of 48

T- 1499/2026/2020	G/2020 JOHN DEERE 5050D V8 TRACTOR - Commercial (Initial)				
1- 1433/2020/2020	٦	THIS TES	T R	EPORT IS VALID UPTO: 31/12/2023	
Manufacturer			:	M/s. John Deere India Private Limited Gat No . 166 - 167 & 271 - 291, Off Pune - Nagar Road, Sanaswadi, Pune– 412 208	
Location of manufacturing plant			:	 i) M/s. John Deere India Private Limited Gat No. 166 - 167 & 271 - 291, Off Pune - Nagar Road, Sanaswadi, Pune– 412 208 ii) M/s. John Deere India Private Limited Survey No. 501, Village – Khatamba Jamgod, Dewas Bhopal Highway, Dewas (Madhya Pradesh) 455115 	
Test requested by	(applica	nt)	:	The manufacturer	
Selected for test by		,	:	The testing authority	
Place of running-in			:	At manufacturer's work place	
Duration of said rur	nnina-in (l	h):			
- Engine			:	12	
- Transmission			:	18	
Method of Selection	on		:	The test sample was selected randomly out of	
				Five tractors from the production line by the representative of testing authority.	
Details of tractors made	e availabl	e for rand	om	selection :	
Γ	Sr. No.	(Cha	assis Number	
	i)	1P`	Y50	050DHLA040454	
	ii)	1P`	Y50	050DELA040455	
	iii)	1P`	Y50	050DCLA040456	
	iv)			050DTLA040457	
	V)	1P`	Y50	050DPLA040458	
1.1 Tractor:		1. SPE	CIF	ICATIONS	

1.1	Tractor:		
	Make	:	John Deere
	Model	:	5050D V8
	Brand Name	:	None
	Variants, if any	:	None
	Туре	:	Four wheeled, Four wheel driven (4WD), General purpose, Standard Agricultural tractor.
	Month & Year of manufacture	:	02 / 20
	Chassis number	:	1PY5050DTLA040457
	Country of origin	:	India
1.2	Engine:		
	Make	:	John Deere
	Model	:	3029DPY80
	Туре	:	Four stroke, Liquid cooled, Naturally aspirated, Direct injection, Diesel engine.
	Serial number	:	PY3029D559985
1.2.1	Engine speed(Manufacturer's rec	omm	ended production setting), (rpm):
	- Maximum speed at no load	:	2250 to 2350
	- Low idle speed	:	800 to 900
	- Speed at maximum torque	:	1100 to 1400
	Rated speed, (rpm):		
	- For PTO use	:	2100

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE- BUDNI Page 5 of 48

T- 1499/2026/2020	
-------------------	--

16. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

16.1 On the basis of tests conducted the performance results have been summarized as evaluative (mandatory) and non-evaluation (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:-

S. No.	Characteristic	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207- 2019	Values declared by the applicant (D) / Requirement (R)	As obser- ved	Whether meets the require- ments (Yes/No)
1	2	3	4	5	6	7
16.1.1	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 \leq 26 kW.	31.3 (D)	31.3	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	31.3 (D)	31.3	Yes
c)	Specific fuel consumption Evaluativ corresponding to maximum power, (g/kWh)		+ 10% Max.	270 (D)	285	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	± 8%	192 (D)	171.7	No
e)	Back-up torque, percent	Evaluative	12 percent, min.	12 % (R)	20.6	Yes
f)	Maximum operating	temperature(^C	°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.	135 (D)	116	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.	120 (D)	106	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. power under High ambient conditions	2.85 (Maximum) (R)	0.42	Yes
h)	Smoke level, (m ⁻¹)	Evaluative	Maximum light absorption coefficient of 3.25 per metre or equivalent BOSCH No. 5.2 or 75 Hatridge value (As per CMVR)	3.25 (Maximum) (R)	0.45	Yes

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE- BUDNI Page 39 of 48

JOHN DEERE 5050D V8 TRACTOR - Commercial (Initial) THIS TEST REPORT IS VALID UPTO: 31/12/2023

1	2	3	4	5	6	7	
15.1.2	– Drawbar performar	-	-	•	•		
a)	Maximum drawbar pull with ballast corresponding to 15 percent wheel slip, (kN)	Non Evaluative	Minimum 70% of static mass with ballast	<u>19.49 (D)</u> 19.53 (R) Minimum	24.45	Yes	
b)	Maximum drawbar pull with unballast corresponding to 15 percent wheel slip, (kN)	Evaluative	Minimum 70% of static mass of tractor without / standard ballast	<u>13.73 (D)</u> 13.76 (R) Minimum	18.50	Yes	
c)	Maximum drawbar power without ballast, or 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.	25.0 (D) 25.0 (R) Minimum	27.4	Yes	
d)	Maximum transmission oil temperature (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company.	110 (D)	81	Yes	
16.1.3	Power lift and hydr	aulic pump p					
a)			out the range of lift, (kN):				
	1) At hitch points	Evaluative	±10 percent	13.70 (D)	13.61	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.	12.20 (D) 7.37 (R) Minimum	- 12.76	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) 50 (R) Maximum	10	Yes	
16.1.4							
a)			a force, equal to or less	than 600 N	l on brak	e pedal	
	with road ballast, (n	n):					
	1) Cold brake	Evaluative	10	10 (R)	8.51	Yes	
	2) Hot brake	Evaluative	10	10 (R)	8.64	Yes	

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE- BUDNI Page 40 of 48

JOHN DEERE 5050D V8 TRACTOR - Commercial (Initial) THIS TEST REPORT IS VALID UPTO: 31/12/2023

1	2	3	4			5	6	7
b)	Maximum force				+	0		1
5)	exerted on the brake pedal to achieve a deceleration of 2.5 m/s^2 (N)	Evaluative	600			600 (R)	206 to 281	Yes
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)	Yes	Yes
16.1.5	Noise measureme	nt :						
a)	Maximum ambient noise emitted by the tractor dB(A)	Evaluative	As per CM∖	/R		88 (R)	80	Yes
b)	Maximum noise at operator's ear level dB(A)	Evaluative	As per CM∖	/R		96 (R)	94	Yes
16.1.6	Amplitude of mec	hanical vibra						
	1) Left foot rest		100 microns (n	nax)			156	No
	2) Right foot rest		-do-				173	No
	3) Seat (with driver seated)	Non Evaluative	-do-			100(R)	55	Yes
	4) Steering wheel	-	do-				61	Yes
16.1.7	Air cleaner oil pull over:							
	Maximum air cleaner oil pull over	Evaluative	0.25 % (ma	x.)		Dry type air cleane is fitted.	er Not ap	plicable
16.1.8	Haulage requirem	ents:						
a)	Gross mass of the	trailers, (tone	es):					
	1) Two wheel	Non				0 (D)	5.0	Yes
	2) Four wheel	Evaluative			7.	0(D)	7.0	Yes
b)	Distance travelled /	litre of fuel co	onsumption, (km/l):	4.0	1.00	4.04.4	M
	1) Two wheel	Non				to 6.0 (D)	4.64 to 4.92	Yes
	2) Four wheel	Evaluative				to 6.0	4.92 4.41 to	Yes
	,					(D)	4.43	
c)	Fuel consumption (ml/km/tonne)	:			·		
	1) Two wheel				40 to 45		40.62 to	Yes
		Non				(D)	43.09	
	2) Four wheel	Evaluative				to 45 (D)	32.24 to 34.54	No
16.1.9	Wetland cultivatio	n:					0	
	Sealing for the following	Evaluative	The identified assemblies should essentially meet the					
	assemblies:		requirement of IS: 11082. No water	The	ere			
	1) Clutch assembly	-do-	ingress in the identified assembly	sho be	no		gress of	
	2) Brake housings	-do-	given in column-2. If tractor does not meet the	ingr of w and	ater	mu	and / or d was	Yes
	3) Front axle hubs	-do-	requirements of wetland cultivation, it	mu	bu	obs	erved	
	4) Engine Oil	-do-	may be	(F	R)			
	5) Transmission Oil	-do-	recommended for dry land operation only.					
1		I	L	I				

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE- BUDNI Page 41 of 48

T- 1499/2026/2020	
-------------------	--

JOHN DEERE 5050D V8 TRACTOR - Commercial (Initial) THIS TEST REPORT IS VALID UPTO: 31/12/2023

1		2	3	4	5	6	7
16.1.10	Saf	ety features :	•	т Т	Ŭ	v	
a)	Gua	ards against ving and hot	Evaluative	Belt drives, pulleys, silencer, hydraulics pipes (as per IS-12239 Part 2)		Meet the requirements	
b)	-	nting angement	Evaluative	As per CMVR		et the ements	Yes
c)	requ (Tra mor	ating uirements ctors having e than 1150 mm track width)	Non Evaluative	Should meet the requirements of IS: 12343 (As amended from time to time)	Does not meets the requirements		
d)	requ	hnical uirements PTO shaft	Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)		et the ements	Yes
e)		ensions of e point linkage	Non Evaluative	Should meet the requirements of IS: 4468 (Part-I) (As amended from time to time)	Meet the requirements		Yes
f)		ecifications of age 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 pi	rovided	Not applic able
h)	1)	Maximum travelling speed at rated engine speed in reverse gears, kmph	Evaluative	Should not exceed 20 kmph	14.10 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.		lot icable	Not appli- cable
16.1.11				n of labelling plate):			
	1)	Make	Evaluative	Should conform to the	John De		Yes
	2) 3)	Model Month & Year of manufacture	Evaluative Evaluative	requirements of CMVR along with maximum declared value of PTO power in kW and for	naximum of PTO and for year of in 9985 Y LA040457		Yes Yes
	4)	Engine number	Evaluative	month & year of manufacture in			Yes
	5)	Chassis number	Evaluative	numerical MM YY Digit 01-12 in box No.1			Yes
	6)	Declaration of PTO power, kW	Evaluative	for MM will represent the month and next two digit in the box No.2 for YY will represent the year of manufacturing.	31.3		Yes

JOHN DEERE 5050D V8 TRACTOR - Commercial (Initial) THIS TEST REPORT IS VALID UPTO: 31/12/2023

1	2	3	4	5	6	7
16.1.12	Discard limit for:	5	4	5	0	I
	Cylinder bore	Evaluative	To be	106.62(D)	106.491 to	Yes
(a)	diameter, (mm)	Evaluative	specified by	100.02(D)	106.513	res
(b)	Clearance between	Non	Manufacturer	0.32 (D)	0.120 to	Yes
()	piston & cylinder	Evaluative		0.02 (D)	0.127	100
	liner at skirt, (mm)					
(C)	Piston diameter at	Non		106.30 (D)	106.382 to	Yes
	skirt, (mm)	Evaluative		()	106.390	
(d)	Ring end gap (mm)					
	- Top comp. ring.		-do-	0.75 (D)	0.40 to 0.45	Yes
	- 2 nd comp. ring.	Evaluative	-do-	2.00 (D)	0.70 to 0.75	Yes
	- Oil ring.		-do-	0.75 (D)	0.40	Yes
(e)	Ring groove cleara	nce (mm):				
	- Top comp. ring		-do-		Tapered	Not
	- 2 nd comp. ring.	-	da	0.05 (D)	0.046 to	applicable
	- 2^{10} comp. ring.	Evaluative	-do-	0.25 (D)	0.046 to	Yes
	- Oil ring.	-	-do-	0.92 (D)	0.053 0.055 to	Yes
	- On hing.		-40-	0.92 (D)	0.070	165
(f)	Diametrical	+	-do-	0.65 (D)	0.095 to	Yes
(י)	clearance of main	Evaluative	40	0.00 (D)	0.147	103
	bearings (mm)	Evaluativo			0.147	
(g)	Clearance of big en	d bearings. (mm):			
(3)	- Diametrical	Evaluative	-do-	0.65 (D)	0.085 to 0.122	Yes
	- Axial	Evaluative	-do-	0.85 (D)	0.25	Yes
(h)	Crankshaft end	Evaluative	-do-	0.85 (D)	0.28	Yes
()	float, mm			0.00 (2)	0.20	
(j)	Clearance between			Tappered roller bearing		Not
	king pin and bush,	Non Evaluative	-do-	is provideo		applicable
	(mm)	Evaluative		·		
(k)	Clearance	Non		0.80 (D)	0.240 to	Yes
	between center pin	Evaluative	-do-		0.320	
	and bush,(mm)					
16.1.13	Literature (Submis				<u> </u>	
(a)	Operator manual	Evaluative	Provided /	Provided	Provided	Yes
			Not Provided	<u> </u>	<u> </u>	
(b)	Parts Catalogue	Evaluative	Provided /	Provided	Provided	Yes
(6)	Markahar/	Evoluation	Not Provided Provided /	Provided	Drovidad	Vee
(c)	Workshop/ Service manual	Evaluative	Not Provided /	Flovided	Provided	Yes
16.1.14	Fitment of Roll	Evaluative	ROPS should	Provided	Not Fitted	Not
10.1.14	Over Protective		meet the			applicable
	Structure (ROPS):		requirement of			
	for tractors having		IS:11821 or OECD code or			
	more than 1150 mm		equivalent			
	rear track width		International			
40 4 1 -			Standard	<u> </u>		
16.1.15	Standard	Evaluative	Trailer hitch, front tow hook, linkage	Provided	Provided	Yes
	accessories		drawbar should			
			be provided with			
40.4.40	A	Nan	tractor Ballast weights if	Dresided	Drovided	Vee
16.1.16	Accessories	Non	fitted should meet		Provided	Yes
	(Optional)	Evaluative	the requirement			
			of CMVR.			

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE- BUDNI Page 43 of 48

JOHN DEERE 5050D V8 TRACTOR - Commercial (Initial) THIS TEST REPORT IS VALID UPTO: 31/12/2023

16.2	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 2 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 five that is, (2 major + 3 minor) or (1 major + 4 minor) or 5 minor breakdowns	None	Yes		

16.3 Conformity with following IS:

			0
i)	Guide lines for declaration of power and specific fuel consumption and labelling of agricultural tractors [IS10273: 1987 (Reaffirmed 2014)]	:	Conforms
ii)	Agricultural tractors - Rear mounted power take-off - Types 1, 2 and 3 [IS:4931-1995 (Reaffirmed 2014)]	:	Conforms
iii)	Agricultural wheeled tractors - Rear mounted three-point linkage: Part 1 Categories 1, 2, 3 & 4 (fourth revision) [IS 4468(Part-I):1997/ISO 730-1:1994 (Reaffirmed in Oct.,2017)]	:	Conforms
iv)	Drawbar for agricultural tractors – Link type [IS 12953:1990 (Reaffirmed October, 2017)]	:	Conforms
V)	Agricultural tractors - Operator's seat technical requirement [IS 12343 –1998 (First revision) (Reaffirmed 2014)]	:	Does not conform
vi)	Guide for safety & comfort of operator of agricultural tractors: Part 1 General requirements (first revision): [IS 12239 (PT-1) 1996/ISO 4254-1:1989 (Reaffirmed October, 2017)]	:	Does not conform
vii)	Tractors and machinery for agriculture and forestry – Technical means for ensuring safety Part 2: Tractors (first revision) (IS 12239 (PT-2) 1999) (Reaffirmed 2014)]	:	Does not conform
viii)	Guide lines for location and operation of operator controls on agricultural tractors and machinery (first revision) IS: 8133- 1983 (Reaffirmed 2014)]	:	Conforms
ix)	Tractors and machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays Part 2 Symbols for agricultural tractors and machinery [IS:6283 (Part-1)- 2006 and IS: 6283 (Part-2)- 2007 (Reaffirmed 2014)]	:	Does not conform
x)	Agricultural Tractors and Machinery - Lighting device for travel on public roads (IS: 14683-1999) (Reaffirmed 2014)]	:	Conforms

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE- BUDNI Page 44 of 48

16.4 Salient Observations:

16.4.1 Laboratory tests:

16.4.1.1 PTO Performance Test:

- i) The maximum PTO power was recorded as 31.3 kW against the declaration of 31.3 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 285 g/kWh against the declaration of 270 g/kWh, which is within the tolerance limit of IS: 12207-2019.
- iii) The maximum equivalent crankshaft torque was recorded as 171.7 N-m against the declaration 192 N-m, which does not meet the requirement of IS: 12207-2019 with regards to tolerance limit. Therefore, this should be looked into for necessary corrective action.
- iv) The backup torque is 20.6 % and meets the evaluative requirement of IS: 12207-2019.
- v) The drop in maximum PTO Power of **6.1** % was recorded between natural and high ambient condition, which is considered to be on higher side. Therefore, this should be looked into for necessary corrective action.

16.4.1.2 Drawbar performance test:

During ten hours drawbar performance test, creeping of LHS & RHS rear tyre over the rims was recorded as **Nil & 25 mm** respectively. This should be looked into for necessary corrective action.

16.4.1.3 Hydraulic performance test:

The lifting capacity with coupled frame was recorded as **12.76 kN** and the moment about rear axle was computed as **15.35 kN-m**, whereas moment about front axle is computed as **19.71 kN-m**. The moment about rear axle with coupled frame is on higher side as compared to moment about front axle. It is therefore recommended that the lifting capacity of hydraulic system may be reduced suitably or standard ballast recommendation may be reviewed to avoid front lifting of tractor.

16.4.1.4 Mechanical Vibration:

The amplitude of mechanical vibration on various assemblies / components marked as (*) in Chapter – 8 of this test report is on higher side. This calls for dampening down of vibrations especially on left & right foot rest to improve the operational comfort and service life of components.

16.4.1.5 Three point linkage:

Some of the parameters of three point linkage conform to Cat. I and some of them conform to Cat.II. Keeping in view the spirit of standardization, necessary improvement may be incorporated.

16.4.1.6 Haulage test:

Specific fuel consumption with four wheel trailer has been recorded as **32.24** to **34.54 ml/km/tone** against the declaration of **40 to 45 ml/km/tone**, which does not meet the requirement of IS: 12207-2019 as regards to tolerance limit. This should be looked into for necessary corrective action at production level.

16.5 Maintenance / Service Problems:

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

T- 1499/2026/2020	JOHN
1-1455/2020/2020	

JOHN DEERE 5050D V8 TRACTOR - Commercial (Initial) THIS TEST REPORT IS VALID UPTO: 31/12/2023

16.7 Recommendation with regard to safety on tractor:

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

- Longitudinal distance from seat index point to centre of steering control wheel should be as per relevant standard.
- Longitudinal distance from seat index point to differential lock pedal should be as per relevant standard.
- Working clearance between hydraulic position control lever and mudguard is less than the minimum requirement.
- iv) Vertical distance from seat index point to brake pedal is less than the minimum requirement.
- v) Grease lubricant frequency chart should be provided on the tractor.
- vi) Oil lubricant, type & frequency chart should be provided on the tractor.

16.6

Adequacy of Literature supplied with machine:

Following literatures of tractor models was supplied with the test sample for reference during the test.

- Operator's Manual of John Deere 5036D, 5038D, 5039D, 5042D, 5045D, 5050D, 5050D V8, 5105, 5105 4WD V2, 5205 and 5005 tractor models
- Parts Catalogue Part-I, Part-II, Part-III & Part-IV of John Deere 5050D V8 tractor model.
- iii) Workshop / Repair Technical Manual Part-I, Part-II & Part-III of John Deere 5036D, 5038D, 5039D, 5042D, 5045D, 5050D, 5050D V8, 5105, 5105 4WD V2, 5205 and 5005 tractor models.
- 16.7 However, these literatures should be brought out in other vernacular languages of India for guidance of users.

17. CITIZEN CHARTER

Time frame for testing & evaluation as per citizen charter	Duration of Test	Whether the report released within time frame given in the citizen charter	Remark
10 Months	07 Months (May, 2020 to November, 2020)	Yes	

TESTING AUTHORITY:

(THMH

PRAMOD YADAV AGRICULTURAL ENGINEER

Mulaanut

C.V. CHIMOTE TEST ENGINEER

J.J.R. NARWARE DIRECTOR

T- 1499/2026/2020	JOHN DEERE 5050D V8 TRACTOR - Commercial (Initial)		
1- 1455/2020/2020	THIS TEST REPORT IS VALID UPTO: 31/12/2023		

18. APPLICANT'S COMMENTS

Para No.	Our Reference	Applicant's comments	
18.1	16.4.1.1 (iii), 16.4.1.4,16.4.1.6 and 16.7 (v) & (vi)	Your valuable comments and suggestions for improvement are well taken. Under our policy of continuous product improvement these aspect are further being looked into and will try to eliminate these deviations soon wherever necessary.	

<u>ANNEXURE – I</u>

BRIEF SPECIFICATION OF IMPLEMENTS USED DURING FIELD TEST

S.No.	ltem	Disc Plough	Rotavator	Puddler
1.	Make	Massey Ferguson	Sonalika	ACE
2.	Туре	Mounted	Mounted	Mounted
3.	No. of bottom/blades	Two	36, in 6 flange	12, in 6 flange
4.	Type of bottom/blades	Plain concave	Hatchet shape	Notched
5.	Size of bottom/blades, (mm)	660	255 x 60 x 6	500
6.	Spacing of bottom/flanges, (mm)	510	250	180
7.	Lower hitch point span, (mm)	735	715	835
8.	Mast height, (mm)	540	610	510
9.	Overall dimensions, (mm):			
	- Length	1545	970	1020
	- Width	990	1780	2070
	- Height	1110	1080	1045
10.	Gross mass, (kg)	250	440	440

ANNEXURE - II

BRIEF SPECIFICATION OF HALF CAGE WHEEL

S. No.	Items	Specifications
1.	Туре	Half cage wheel
2.	Dia, (mm)	1085
3.	Width, (mm)	340
4.	No. and types of lugs	12, straight lugs made up of MS-angle section
		welded to angle iron frame.
5.	Size of angle section, (mm)	50 x 50 x 6
6.	Length of lugs, (mm)	340
7.	Spacing of lugs, (mm)	275
8.	Weight of each cage wheels (kg)	60

T- 1499/2026/2020

JOHN DEERE 5050D V8 TRACTOR - Commercial (Initial) THIS TEST REPORT IS VALID UPTO: 31/12/2023

ANNEXURE -III

TRACTOR RUN HOURS DURING TEST

А.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	
2.	PTO performance test	12.7
3.	Drawbar performance test	15.3
4.	Power lift and hydraulic pump performance test	1.5
5.	Turning ability	0.5
6.	Location of centre of gravity	0.2
7.	Operator's field of vision	0.2
8.	Brake test	2.3
9.	Noise measurement	1.3
10.	Mechanical vibration test	1.0
11.	Theoretical speed test	1.1
В.	FIELD TEST:	
1.	Disc ploughing	10.7
2.	Rotavation	10.4
3	Puddling (including water proof)	15.6
C.	HAULAGE TEST:	5.0
D.	Miscellaneous test and other run hours including idle	8.0
	run, transportation, trials and preparation for test	
	TOTAL:	85.8

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE- BUDNI Page 48 of 48