प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट संख्या/No. : T-1808/2339/2023

INITIAL COMMERCIAL TEST REPORT माह/Month : December, 2023

Application Reference No. 28/2023-24/33

(यह परीक्षण रिपोर्ट 31/12/2028 तक वैध है / THIS TEST REPORT IS VALID UPTO 31/12/2028)



Make of Agricultural Tractor Model Manufactured by : JOHN DEERE : 5050D 4WD V15

: M/s. John Deere India Pvt. Ltd. Gat No.166 - 167 & 271 - 291, Off. Pune - Nagar Road, Sanaswadi, Taluka – Shirur, Pune - 412 208



#### 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 द्रैक्टर 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)

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JOHN DEERE, 5050D 4WD V15 TRACTOR- INITIAL COMMERCIAL TEST

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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 15<sup>th</sup> 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: December Test Report No.: T-1808/2339/2023 Year: 2023



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T-1808/2339/2023 THIS TEST REPORT IS VALID UPTO: 31/12/2028 [C] Tractor manufacturer's name and M/s. John Deere India Pvt. Ltd. Gat No.166 - 167 & 271 - 291, address Off. Pune-Nagar Road, Sanaswadi, Pune - 412 208 [D] Location of tractor assembly M/s. John Deere India Pvt. Ltd. Gat No.166 - 167 & 271 - 291, Off. Pune-Nagar Road, Sanaswadi, Pune - 412 208 (ii) M/s. John Deere India Pvt. Ltd. Survey No.501, Village-Khatamba Jamgod, Dewas Bhopal Highway, Dewas (Madhya Pradesh) - 455115 Submitted for test by (Applicant) The Manufacturer [C] [C] The Ministry vide OM No. 13-17/2021 - M&T (I&P) Selected for test by 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 20 -Transmission 20 Location of test [C] Government of India, Central Farm Machinery Training and Testing Institute, P.O. - Tractor Nagar, BUDNI - 466445 (M.P.), INDIA 1. SPECIFICATIONS OF TRACTOR Identification: 1.1 1.1.1 Denomination Make of tractor JOHN DEERE Model 5050D 4WD V15 Type Four wheeled driven, Standard Agricultural Tractor. Month & year of manufacture 10/23 [D] Country of origin India 1.1.2 Numbers: 1<sup>st</sup> Serial No. or prototype [D] 1PY5050DCPF051947 Serial No. 1PY5050DJPM054724 [C] 1.2 **Engine:** [D] Manufacturer's address M/s. John Deere India Pvt. Ltd. Gat No.166 - 167 & 271 - 291, Off. Pune-Nagar Road, Sanaswadi Taluka - Shirur, Pune - 412 208 (ii) M/s. John Deere India Pvt. Ltd. Survey No.501, Village-Khatamba Jamgod, Dewas Bhopal Highway, Dewas (Madhya Pradesh) - 455 115. Make JOHN DEERE [C] [C] Model 3029DPY106 Four stroke, liquid cooled, natural aspiration, [C] Type direct injection, diesel engine

JOHN DEERE, 5050D 4WD V15 TRACTOR-INITIAL COMMERCIAL TEST

: PY3029D769745

[C]

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#### 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:

S. No.	Characteristic Category (Evaluative / Non Evaluative) Requirements as per IS: 12207-2022		Values declared by the applicant/ (D) Requirement (R)	As observed	Whether meets the require- ments (Yes/No)		
1		2	3	4	5	6	7
	MAN	DATORY TES	TS: (As per N	Ministry's Office Memorandum	າ No. 13-17/	2021-M&	T (I&P)
		d 28 <sup>th</sup> of July,					
6.1.1		Performance:				T	1
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.	30.3 (D)	30.2	Yes
b)		er at rated ne speed,	Non Evaluative	-do-	30.0 (D)	30.2	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)		Evaluative	Should not be more than 10% of declared value.	270 (D)	275	Yes
d)	Maximum equivalent crankshaft torque, (Nm)		Non Evaluative	± 8%	186 (D)	169.5	No
e)	perce		Evaluative	Should be min. 12%	12 (D) 12 (R)	23.5	Yes
f)	Maxi	mum operating		(°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)	112	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.	118 (D)	105	Yes
g)	Engine oil consumption, (g/kWh)		Evaluative	Not exceeding 1% of SFC at max. Power under natural ambient conditions.	2.75 Maximum (R)	0.16	Yes
h)	Smoke level, m <sup>-1</sup>		Evaluative	Maximum light absorption coefficient of 3.25 per meter or equivalent BOSCH No. 5.2 or 75 Hatridge value ( <b>As per CMVR</b> ).	3.25 per meter Maximum (R)	0.26	Yes
6.1.2							
a)	with corre	drawbar pull ballast esponding to ercent wheel (kN)	Non Evaluative	Minimum 70% of static mass of tractor with ballast.	19.8	*	*

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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.	13.8 (D) 14.42 (R) Minimum	21.17	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.	24.24 (D) 24.2 (R) Minimum	26.8	Yes
d)	Maximum transmission oil temperature, (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	110 (D)	77	Yes

Remark (\*): Applicant vide letter no. Nil dated 06.11.2023 has requested to conduct the testing as per the additional guideline for testing of tractors vide OM No. 13-32/2023-M&T (I&P) (FTS-125476) dated 16.05.2023. Accordingly, drawbar performance test under unballasted condition was conducted only.

6.1.3	Power lift and hydraulic pump performance:						
a)	Ma	ximum lifting cap	acity throughou	t 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	14.30	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.	12.2 (D) 7.11 (R) Minimum	11.85	Yes
b)	the poir of eac inte	dimum drop in height of the nt of application the force after h 5 minutes rval for a total ation of 30 utes, (mm)	Non Evaluative	The observed value should not exceed 50 mm	50 (D) Maximum	20	Yes
6.1.4	Bra	ike performance	e at 25 kmph:				
a)			distance at a fo	orce, equal to or less than 60	00 N on brak	ke pedal v	without
		ast, (m):					
	1)	Cold brake	Evaluative	10	10 (R)	7.68	Yes
	2)	Hot brake	Evaluative	10	10 (R)	7.84	Yes
b)	bral a fo foot	ether parking the is effective at price of 600 N at pedal (s) or 400 thand lever	Evaluative	Yes / No	Yes	Yes	Yes
6.1.5	As	TIONAL TESTS the applicant handucted.	=	for any optional tests, there	fore no opti	onal tests	s was

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moving and hot parts   hydraulic pipes [As per IS]   requirement	1		2	3	4	5 6	7
Belt drives, pulleys, silencer, media parts   Sulphine   Sulphin	6.1.6	Saf		-			
c) Seating requirements (Tractors having more than 1150 mm rear track width)  d) Technical requirements for PTO shaft  e) Dimensions of three point linkage drawbar (wherever fitted)  g) Swinging drawbar (wherever fitted)  h) 1) Maximum travelling speed in reverse gears, kmph  2) Audible engine speed in ractor warning signal on tractor warning signal on tractor wanning sepect in reverse gears table brought in operation and manufacture wannufacture (and wannufacture for manufacture for manufacture for manufacture for manufacture for manufacture for muniting to menument for manufacture for muniting f		Gua mov	ards against ving and hot	Evaluative	hydraulic pipes [As per IS		Yes
requirements (Tractors having more than 1150 mm rear track width)  d) Technical requirements for PTO shaft  e) Dimensions of three point linkage  f) Specifications of local linkage drawbar (wherever fitted)  g) Swinging drawbar (wherever fitted)  h) 1) Maximum travelling speed in reverse gears, kmph  2) Audible warning signal on tractor  h) 1) Maximum signal on tractor  c) As soon as the travelling speed in reverse gear reaches to 20 kmph, an audible warning signal on tractor  6.1.7 Labelling of tractors (Provision of Valuative manufacture warning signal on tractor)  6.1.7 Labelling of tractors (Provision of Valuative power, (kW)  7) Specific fuel Evaluative  Fealuative travelling speed in reverse gear reaches to 20 kmph, an audible warning signal on tractor with maximum tractors half be activated. The safety aspects about the operation of shuttle technology with maximum pTO power (wand power, (kW)  7) Specific fuel Evaluative  8) Should meet the requirement of IS: 12362 (Part 3) (As amended from time to time)  Not provided Net requirement of IS: 12362 (Part 3) (As amended from time to time)  Not provided	b)	Lighting			·	Conforms	Yes
requirements for PTO shaft  e) Dimensions of three point linkage  Figure 1		requirements (Tractors having more than 1150 mm		Evaluative	requirements of IS: 12343 (As amended from time to time)	meet the requirement	No
f) Specifications of linkage Bevaluative requirements of IS: 17231-2019 (Part-I) (As amended from time to time)  f) Specifications of linkage drawbar Pevaluative (Part-I) (As amended from time to time)  g) Swinging drawbar (wherever fitted)  f) Maximum propower, (kW)  f) Specific fuel (wherever fitted)  f) Specific fuel (wherever fitted)  Should meet the requirement of IS: 12362 (Part 3) (As amended from time to time)  for constant propower of IS: 12362 (Part 3) (As amended from time to time)  Should meet the prequirement of IS: 12362 (Part 3) (As amended from time to time)  for constant propower of IS: 12362 (Part 3) (As amended from time to time)  Should meet the requirement of IS: 12362 (Part 3) (As amended from time to time)  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 and manufacture / dealer shall ensure the training on this aspect to operator before the delivery of tractor.  6.1.7 Labelling of tractors (Provision of labelling plate):  1) Make Evaluative Should conform to the delivery of tractor.  6.1.7 Labelling of tractors (Provision of labelling plate):  1) Make Evaluative Should conform to the delivery of tractor.  6.1.7 Labelling of tractors (Provision of labelling plate):  1) Make Evaluative Should conform to the delivery of tractor.  6.1.7 Labelling of tractors (Provision of labelling plate):  1) Make Evaluative Should conform to the delivery of		req PT0	uirements for O shaft	Evaluative	requirements of IS: 4931 (As amended from time to time)		Yes
Swinging drawbar   Evaluative   Requirements of IS: 12953 (As amended from time to time)	,	poir	nt linkage	Evaluative	requirements of IS: 17231-2019 (Part-I) (As amended from time to time)	meet the requirement	No
(wherever fitted)  Evaluative requirement of IS: 12362 (Part 3) (As amended from time to time)  1) Maximum travelling speed at rated engine speed in reverse gears, kmph  2) Audible warning signal on tractor  Evaluative 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.  6.1.7 Labelling of tractors (Provision of labelling plate):  1) Make Evaluative 2) Model Evaluative manufacture warning signal on tractor of labelling plate):  1) Make Evaluative 2) Model Evaluative manufacture 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.  Should conform to the requirements of CMVR along with maximum PTO Power in kW and year of manufacture 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.  Should conform to the requirements of CMVR along with maximum PTO Power in kW and year of manufacture in numerical form.  MM YY  Digit 01 – 12 in box No.1for MM will represent the months and next two digits in box No.2 for YY will represent the months and next two digits in box No.2 for YY will represent the months and next two digits in box No.2 for YY will represent the months and next two digits in box No.2 for YY will represent the months and next two digits in box No.2 for YY will represent the months and next two digits in box No.2 for YY will represent the months and next two digits in box No.2 for YY will represent the months and next two digits in box No.2 for YY will represent the months and next two digits in box No.2 for YY will represent the months and next two digits in box No.2 for YY will r	f)			Evaluative	requirements of IS: 12953 (As amended from time to time)	requirement	Yes
travelling speed at rated engine speed in reverse gears, kmph  2) Audible warning signal on tractor  Evaluative warning signal on tractor  6.1.7  Labelling of tractors (Provision of labelling plate):  1) Make Evaluative enumber Evaluative manufacture  4) Engine number Evaluative mumber  6) Maximum PTO Evaluative power, (kW)  7) Specific fuel  Evaluative engine 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.  Should conform to the requirements of CMVR along with maximum PTO Power in kW and year of manufacture in numerical form.  MM YY  Digit 01 – 12 in box No.1for MM will represent the months and next two digits in box No.2 for YY will represent the control of the power of You will represent the control of the requirements of CMVR along with maximum PTO power in kW and year of manufacture in numerical form.  MM YY  Digit 01 – 12 in box No.1for MM will represent the months and next two digits in box No.2 for YY will represent the control of the requirement of the r	g)	0 0		Evaluative	requirement of IS: 12362 (Part 3) (As amended from	Not provided	Not appli- cable
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.    Labelling of tractors (Provision of labelling plate):    1	h)	·	travelling speed at rated engine speed in reverse			(Meets the requirement)	Yes
1) Make Evaluative 2) Model Evaluative 3 Month & Year of manufacture 4) Engine number Evaluative number 6 Maximum PTO Evaluative power, (kW) 7) Specific fuel Evaluative Tequirements of CMVR along with maximum PTO Power in kW and year of manufacture in numerical form. MM YY 10/23 PY		,	warning signal on tractor		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 appli- cable
2) Model Evaluative 3) Month &Year of Evaluative manufacture 4) Engine number Evaluative 5) Chassis Evaluative number 6) Maximum PTO Evaluative power, (kW) 7) Specific fuel Evaluative    Very to provide the first of CMVR along with maximum PTO Power in kW and year of manufacture in numerical form.   MM	6.1.7					· • · · · · · · · · · · · · · · · · · ·	1
3) Month &Year of manufacture 4) Engine number Evaluative 5) Chassis Evaluative number 6) Maximum PTO Evaluative power, (kW) 7) Specific fuel Evaluative  Signature with maximum PTO Power in kW and year of manufacture in numerical form.  MM YY  Digit 01 – 12 in box No.1for MM will represent the months and next two digits in box No.2 for YY will represent the							Yes
5) Chassis Evaluative number 6) Maximum PTO Evaluative power, (kW) 7) Specific fuel Evaluative Evaluative No.2 for YY will represent the months and next two digits in box No.2 for YY will represent the specific fuel Evaluative No.2 for YY will represent		3)	Month &Year of manufacture	Evaluative	with maximum PTO Power in kW and year of manufacture	10/23	Yes Yes
number  6) Maximum PTO Evaluative power, (kW)  7) Specific fuel Evaluative    Digit 01 - 12 in box No.1for MM will represent the months and next two digits in box No.2 for YY will represent the		_					Yes
6) Maximum PTO Evaluative MM will represent the months and next two digits in box No.2 for YY will represent the 270/198.6			number			24	
7) Specific fuel Evaluative No.2 for YY will represent the 270/198.6 Ye		6)		Evaluative	MM will represent the months	30.3/41.2	Yes
consumption ,g/kWh year of Manufacturing.		7)	Specific fuel consumption	Evaluative	No.2 for YY will represent the	270/400 C	

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1	2	3	4	5	6	7
6.1.8	Literature (Submis	sion to test a	gency):			
(a)	Operator manual	Evaluative	Provided /	Provided	Provided	Yes
			Not Provided			
(b)	Parts Catalogue	Evaluative	Provided /	Provided	Provided	Yes
			Not Provided			
(c)	Workshop/	Evaluative	Provided /	Provided	Provided	Yes
	Service manual		Not Provided			
6.1.9	Fitment of Roll Ove	er Protective	Structures (ROPS):			
	For tractor having	Evaluative	ROPS should m	neet the	Not	Not
	more than 1150	(if fitted)	requirement of IS:1182	2 or OECD	Provided	applicable
	mm rear track		code or equivalent Ir	nternational		
	width		Standard			
6.1.10	Standard	Evaluative	Trailer hitch, front tow hook,		Provided	Yes
	Accessories		linkage drawbar s	hould be		
			provided with tractor			
6.1.11	Accessories Non Ballast weight, if fitted, s			Not fitted	Not	
	(optional)	Evaluative	meet the requirement	of CMVR		applicable

6.2	CATEGORY OF BI	REAKDOWNS	/ DEFECTS ( As per clause 5.0 of	IS:12207-20	022):
S. No.	Category of break-downs	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2022	As observe d	Whether meets the Require -ments (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

#### 6.3 Conformity with following IS:

i) 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 1 : **Does not** Categories 1, 2, 3 & 4 (fourth revision) [IS:17231 – 2019] **conform** 

iv) Drawbar for agricultural tractors – Link type [IS 12953:1990 (Reaffirmed : Conforms Year 2022)]

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

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vii) Tractors and machinery for agriculture and forestry – Technical means for : Conforms ensuring safety Part 2: Tractors (first revision) (IS 12239 (Part 2) 1999)

(Reaffirmed Year 2019)]

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

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 (Reaffirmed Year 2019)] and IS: 6283 (Part-2) – 2007 (Reaffirmed Year 2019)]

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

#### 6.4 Salient Observations:

#### 6.4.1 PTO performance test

During PTO performance test, maximum equivalent crack shaft torque was observed as 169.5 against the minimum requirement of 171-Nm which does not meet the non-evaluative requirement of IS:12207-2022.

#### 6.4.2 Operator's seat:

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

- 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 distance from SIP to the centre of accelerator pedal and foot rest.
- iii) Longitudinal distance from SIP to the centre line of differential lock pedal.

This should be looked into for necessary corrective action.

#### 6.4.3 Operator's work place:

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

i) Provision of spark arrester.

This should be looked into for necessary corrective action.

#### 6.4.4 Three-point linkage:

The dimensions viz. diameter of upper & lower hitch pin hole and width of ball of lower hitch does not meet the requirements of IS: 17231-2019. This should be looked into for 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:

- i) Identification of hand controls of differential lock by colour has not been provided as per the requirement as laid down in Table 5 of IS: 8133-2021.
- ii) Colour codes of engine fuel gauge & water temperature gauge has not been provided as per the requirement as laid down in IS: 6283 (Part 2): 2007 (Reaffirmed year 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's Manual for John Deere 5036D, 5038D, 5039D, 5039 V3, 5039D V4, 5042D, 5045D, 5050D, 5050 V1, 5050D V8, 5050D V10, 5050D V14, 5050D V15, 5050D 4WD V1, 5050D 4WD V14, 5050 4WD V15, 5105, 5105 V3, 5105 V4, 5205, and 5005 Tractors (India Edition)
- b) Technical Manual for John Deere 5036D, 5038D, 5039D, 5039 V3, 5039D V4, 5042D, 5045D, 5050D, 5050 V1, 5050D V8, 5050D V10, 5050D V14, 5050D V15, 5050D 4WD V1, 5050D 4WD V14, 5050 4WD V15, 5105, 5105 V3, 5105 V4, 5205, and 5005 tractor models.
- c) Parts Catalogue Part-1 & Part-2 for John Deere 5050D 4WD V15 tractor model.

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

B.N. DIXIT AGRICULTURAL ENGINEER	
R.P. PANDEY SENIOR INSTRUMENTATION ENGINEER	Rander
A. K. UPADHYAY DIRECTOR (I/C)	In Par

Draft Test Report compiled by **Dharmendra Kumar**, Senior Technical Assistant.

#### 7. APPLICANT'S COMMENTS

No specific comment received by the applicant.

#### **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	13.8
3.	Power lift and hydraulic pump performance test	0.9
4.	Drawbar performance test	6.5
5.	Brake performance test	2.0
6.	Nominal speed test	2.0
В.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test.	4.3
	TOTAL:	29.5