प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट संख्या/No. : T-1811/2342/2023 INITIAL COMMERCIAL TEST REPORT माह/Month : December, 2023

Application Reference No.28/2023-24/31

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



Make of Agricultural Tractor : JOHN DEERE Model : 5050D V14

Manufactured by : M/s. John Deere India Pvt. Ltd.

Gat No.166 - 167 & 271 - 291,

Off. Pune-Nagar Road, Sanaswadi,

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 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.inWeb site: fmttibudni.gov.inTelephone: 07564-299003

### T-1811/2342/2023 JOHN DEERE, 5050D V14 TRACTOR - INITIAL COMMERCIAL TEST

THIS TEST REPORT IS VALID UPTO: 31/12/2028

#### 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-1811/2342/2023 Year: 2023



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

CENTRAL FARM MACHINERY TRAINING AND TESTING INSTITUTE - BUDNI

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		THIS TEST	REPORT IS VALID UPTO: 31/12/2028	
[C]	Tractor mai	urfacturer's name and	· M/s .lohn Deere India Pvt I td	

[C]	Tractor manufacturer's name and address	: M/s. John Deere India Pvt. Ltd. Gat No.166 - 167 & 271 - 291, Off. Pune-Nagar Road, Sanaswadi,
[D]	Location of tractor assembly	Pune - 412 208  : (i) 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
[C]	Submitted for test by (Applicant) Selected for test by	<ul> <li>(Madhya Pradesh) - 455115</li> <li>The Manufacturer</li> <li>The Ministry vide OM No. 13-17/2021 - M&amp;T (I&amp;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.</li> </ul>
[D] [D]	Place of running-in Duration of running-in, (h): -Engine	: At manufacturer's works : 20
[C]	-Transmission Location of test	<ul> <li>20</li> <li>Government of India,</li> <li>Central Farm Machinery Training and Testing Institute, P.O Tractor Nagar,</li> <li>BUDNI – 466445 (M.P.), INDIA</li> </ul>
	1. SPECIFICATIO	ONS OF TRACTOR
1.1	Identification:	ONS OF TRACTOR
1.1.1		ONS OF TRACTOR  : JOHN DEERE
	Identification: Denomination	
<b>1.1.1</b> [C]	Identification: Denomination Make of tractor	<ul><li>: JOHN DEERE</li><li>: 5050D V14</li><li>: Rear wheel driven, Standard Agricultural</li></ul>
<b>1.1.1</b> [C] [C] [C]	Identification: Denomination Make of tractor Model Type	: JOHN DEERE : 5050D V14
1.1.1 [C] [C] [C]	Identification: Denomination Make of tractor Model	<ul><li>: JOHN DEERE</li><li>: 5050D V14</li><li>: Rear wheel driven, Standard Agricultural Tractor</li></ul>
<b>1.1.1</b> [C] [C] [C]	Identification: Denomination Make of tractor Model Type  Month & year of manufacture Country of origin Numbers:	<ul> <li>JOHN DEERE</li> <li>5050D V14</li> <li>Rear wheel driven, Standard Agricultural Tractor</li> <li>10 &amp; 23</li> </ul>
1.1.1 [C] [C] [C] [D] 1.1.2 [D]	Identification: Denomination Make of tractor Model Type  Month & year of manufacture Country of origin Numbers: 1st Serial No. or prototype	<ul> <li>: JOHN DEERE</li> <li>: 5050D V14</li> <li>: Rear wheel driven, Standard Agricultural Tractor</li> <li>: 10 &amp; 23</li> <li>: India</li> <li>: 1PY5050DEPF051946</li> </ul>
1.1.1 [C] [C] [C] [C] [D] 1.1.2	Identification: Denomination Make of tractor Model Type  Month & year of manufacture Country of origin Numbers:	<ul> <li>: JOHN DEERE</li> <li>: 5050D V14</li> <li>: Rear wheel driven, Standard Agricultural Tractor</li> <li>: 10 &amp; 23</li> <li>: India</li> </ul>
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1.1.1 [C] [C] [C] [D] 1.1.2 [D] [C] 1.2 [D]	Identification: Denomination Make of tractor Model Type  Month & year of manufacture Country of origin Numbers: 1st Serial No. or prototype Serial No. Engine:	<ul> <li>: JOHN DEERE</li> <li>: 5050D V14</li> <li>: Rear wheel driven, Standard Agricultural Tractor</li> <li>: 10 &amp; 23</li> <li>: India</li> <li>: 1PY5050DEPF051946</li> <li>: 1PY5050DKPM054723</li> <li>: (i) M/s. John Deere India Pvt. Ltd. Gat No.166 - 167 &amp; 271 - 291, Off. Pune-Nagar Road, Sanaswadi Taluka – Shirur, Pune - 412 208</li> <li>(ii) M/s. John Deere India Pvt. Ltd. Survey No.501, Village - Khatamba</li> </ul>
1.1.1 [C] [C] [C] [D] 1.1.2 [D] [C] 1.2	Identification: Denomination Make of tractor Model Type  Month & year of manufacture Country of origin Numbers: 1st Serial No. or prototype Serial No. Engine: Manufacturer's address	<ul> <li>: JOHN DEERE</li> <li>: 5050D V14</li> <li>: Rear wheel driven, Standard Agricultural Tractor</li> <li>: 10 &amp; 23</li> <li>: India</li> <li>: 1PY5050DEPF051946</li> <li>: 1PY5050DKPM054723</li> <li>: (i) M/s. John Deere India Pvt. Ltd.         Gat No.166 - 167 &amp; 271 - 291,         Off. Pune-Nagar Road, Sanaswadi         Taluka – Shirur, Pune - 412 208</li> <li>(ii) M/s. John Deere India Pvt. Ltd.         Survey No.501, Village - Khatamba         Jamgod, Dewas Bhopal Highway,         Dewas (Madhya Pradesh) - 455 115</li> </ul>
1.1.1 [C] [C] [C] [D] 1.1.2 [D] [C] 1.2 [D]	Identification: Denomination Make of tractor Model Type  Month & year of manufacture Country of origin Numbers: 1st Serial No. or prototype Serial No. Engine: Manufacturer's address	<ul> <li>: JOHN DEERE</li> <li>: 5050D V14</li> <li>: Rear wheel driven, Standard Agricultural Tractor</li> <li>: 10 &amp; 23</li> <li>: India</li> <li>: 1PY5050DEPF051946</li> <li>: 1PY5050DKPM054723</li> <li>: (i) M/s. John Deere India Pvt. Ltd.         Gat No.166 - 167 &amp; 271 - 291,         Off. Pune-Nagar Road, Sanaswadi         Taluka – Shirur, Pune - 412 208</li> <li>(ii) M/s. John Deere India Pvt. Ltd.         Survey No.501, Village - Khatamba         Jamgod, Dewas Bhopal Highway,         Dewas (Madhya Pradesh) - 455 115</li> <li>: JOHN DEERE</li> </ul>

### JOHN DEERE, 5050D V14 TRACTOR - INITIAL COMMERCIAL TEST

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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.	Cha	aracteristic	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
				linistry's Office Memorandum	No. 13-17/	2021-M&	T (I&P)
		l 28 <sup>th</sup> of July, 2	2022).				
6.1.1		Performance:		Dealers described by a self-considerable	00.0	04.4	L 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)	31.4	Yes		
b)	Powe	r at rated	Non	-do-	30.0	31.4	Yes
	engine speed, (kW)		Evaluative		(D)		
c)		fic fuel	Evaluative	Should not be more than	270	273	Yes
	corres	umption sponding to num power, /h)		10% of declared value.	(D)		
d)	(Nm)	alent shaft torque,	Non Evaluative	± 8%	186 (D)	171.5	Yes
e)	perce		Evaluative	Should be min. 12%	12 (D) 12 (R)	20.3	Yes
f)		num operating		( <sup>o</sup> 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)	113	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)	103	Yes
g)	Engin consu (g/kW	ımption,	Evaluative	Not exceeding 1% of SFC at max. Power under natural ambient conditions.	2.73 Maximum (R)	0.31	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)	0.27	Yes
6.1.2		bar performar		I			
a)	with corres	drawbar pull ballast sponding to ercent wheel kN)	Non Evaluative	Minimum 70% of static mass of tractor with ballast.	*	*	*

### JOHN DEERE, 5050D V14 TRACTOR - INITIAL COMMERCIAL TEST

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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.	12.77 (D) 12.91 (R) Minimum	15.76	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) 25.1 (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)	64	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		wer lift and hyd					
a)	1)	At hitch points	eacity throughou Evaluative	t the range of lift, (kN): Should not be less than 90% of declared value.	13.7 (D) 12.33 (R) Minimum	13.23	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) 7.39 (R) Minimum	11.35	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 The observed value should not exceed 50 mm		50 (D) Maximum	00	Yes
6.1.4	Bra	ke performanc	e at 25 kmph:				
a)		ximum stopping ast, (m):	distance at a fo	orce, equal to or less than 60	00 N on brak	ke pedal v	withou
	1) 2)	Cold brake Hot brake	Evaluative Evaluative	10 10	10 (R) 10 (R)	7.96 8.15	Yes Yes
b)	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
6.1.5	OP As	TIONAL TESTS		for any optional tests, there	fore no opti	onal test	s was

### JOHN DEERE, 5050D V14 TRACTOR - INITIAL COMMERCIAL TEST

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1		2	3	4	5	6	7
6.1.6	Saf	ety features :					•
a)		ards against ving and hot ts	Evaluative	Belt drives, pulleys, silencer, hydraulic pipes [As per IS 12239 (Part2)]	Co	nforms	Yes
b)	Lighting arrangement		Evaluative	As per CMVR	Со	nforms	Yes
c)	req (Tra mo rea	ating uirements actors having re than 1150 mm r track width)	Non Evaluative	Should meet the requirements of IS: 12343 (As amended from time to time)	requ	es not eet the irement	No
d)	req PT	chnical uirements for O shaft	Non Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)		nforms	Yes
e)	poi	nensions of three nt linkage	Non Evaluative	Should meet the requirements of IS: 17231-2019 (Part-I) (As amended from time to time)	me requ	es not eet the irement	No
f)	link	ecifications of age drawbar	Non Evaluative	Should meet the requirements of IS: 12953 (As amended from time to time)	requ	ets the iirement	Yes
g)		inging drawbar nerever fitted)	Non Evaluative	Should meet the requirement of IS: 12362 (Part 3) (As amended from time to time)	Not	orovided	Not appli- cable
h)	1)	Maximum travelling speed at rated engine speed in reverse gears, kmph	Evaluative	Should not exceed 20 Kmph	(M	1 Kmph eets the irement)	Yes
647	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.	No	et fitted	Not appli- cable
6.1.7		pelling of tractors Make	•	<u> </u>	IOUN	IDEEDE	Voc
	1) 2)	Model	Evaluative Evaluative	Should conform to the requirements of CMVR along		N DEERE OD V14	Yes Yes
	3)	Month &Year of manufacture	Evaluative	with maximum PTO Power in kW and year of manufacture		10/23	Yes
	4) 5)	Engine number Chassis number	Evaluative Evaluative	in numerical form.  MM YY  Digit 01 12 in box No 1for	1PY505	9D769766 0DKPM054 723	Yes Yes
	6)	Maximum PTO power, (kW)	Evaluative	Digit 01 – 12 in box No.1for MM will represent the months and next two digits in box	30.3	3 / 41.2	Yes
	7)	Specific fuel consumption ,g/kWh	Evaluative	No.2 for YY will represent the year of Manufacturing.	270	(198.6)	Yes

### JOHN DEERE, 5050D V14 TRACTOR - INITIAL COMMERCIAL TEST

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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 / 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
6.1.9	Fitment of Roll Ove	er Protective	Structures (ROPS):			
	For tractor having more than 1150 mm rear track width	(if fitted)	ROPS should meet the requirement of IS:1182 or OECD code or equivalent International Standard		ovided	Not applicable
6.1.10	Standard Accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor	Prov	rided	Yes
6.1.11	Accessories (optional)	Non Evaluative	Ballast weight, if fitted, should meet the requirement of CMVR	Not t	fitted	Not applicable

6.2	CATEGORY	OF BREAKDO	DWNS / DEFECTS ( As per clause 5.0	of IS:12207-202	22):
S. No.	Category of break-down s		Requirements as per IS: 12207-2022	As observed	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 breakdown s	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:

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 : Conforms

(third revision) [IS:4931-1995 (Reaffirmed Year 2019)]

iii) Agricultural wheeled tractors – Rear mounted three-point linkage: Part 1:

e: Part 1 : Does not conform

Categories 1, 2, 3 & 4 (fourth revision) [IS:17231 – 2019]

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

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)

Conforms

(Reaffirmed Year 2019)]

### JOHN DEERE, 5050D V14 TRACTOR - INITIAL COMMERCIAL TEST

#### THIS TEST REPORT IS VALID UPTO: 31/12/2028

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 Part2 Symbols for agricultural tractors and machinery [IS: 6283 (Part-1) - 2006 (Reaffirmed Year 2019)]

Does not conform agricultural tractors and machinery [IS: 6283 (Part-1) - 2006 (Reaffirmed Year 2019)]

x) 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 Operator's seat:

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

- i) Provision for adjustment of driver's mass has been specified as 50 to 120 kg against the requirement of 40 to 100 kg.
- ii) Vertical distance from SIP to center line of accelerator and differential lock pedal is measured as 530 & 475 mm against the requirement of 230 to 460 mm.
- iii) Vertical distance from SIP to center line of steering control wheel is measured as 215 mm against the requirement of 265 to 385 mm.
- iv) Longitudinal distance from SIP to center line of differential lock pedal is measured as 220 mm against the requirement of 410 to 720 mm.

This should be looked into for necessary corrective action.

#### 6.4.2 Operator's work place:

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

i) Provision of spark arrester is not provided.

This should be looked into for necessary corrective action.

#### 6.4.3 Three-point linkage:

The dimensions viz. diameter of upper & lower hitch pin hole, width of ball of upper hitch point and leveling adjustment 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) The distance of engine stop control from engine start control has been measured as 300 mm against the maximum requirement of 150 mm as laid down in table -1 of IS: 8133 2021
- iii) Colour codes of engine revolution gauge, engine oil pressure gauge, 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).

The working clearance between position control lever and LHS mudguard has been measured as 45 mm 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'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 V14 tractor model.

### JOHN DEERE, 5050D V14 TRACTOR - INITIAL COMMERCIAL TEST

#### THIS TEST REPORT IS VALID UPTO: 31/12/2028

## 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)	Am

Draft Test Report compiled by Shivkumar Sharma, Senior Technical Assistant.

#### 7. APPLICANT'S COMMENTS

Para no.	Our reference	Applicant's comments
7.1	6.4.1, 6.4.2, 6.4.3 & 6.6	None

#### 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	12.5
3.	Power lift and hydraulic pump performance test	0.9
4.	Drawbar performance test	2.0
5.	Brake performance test	2.0
6.	Nominal speed test	1.0
B.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test.	5.2
	TOTAL:	23.6