

Application Reference No. 28/2023-24/9

(यह परीक्षण रिपोर्ट 30/11/2028 तक वैध है / THIS TEST REPORT IS VALID UPTO 30/11/2028)



Make of Agricultural Tractor : **JOHN DEERE**
Model : **5310 4WD V1 GearPro**
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.in Web site: fmttibudni.gov.in Telephone: 07564-299003

T-1795/2326/2023	JOHN DEERE, 5310 4WD V1 GearPro TRACTOR - INITIAL COMMERCIAL TEST
	THIS TEST REPORT IS VALID UPTO: 30/11/2028

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 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: November	Test Report No.: T-1795/2326/2023	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	Page 2 of 33
---	--------------

T-1795/2326/2023	JOHN DEERE, 5310 4WD V1 GearPro TRACTOR - INITIAL COMMERCIAL TEST
	THIS TEST REPORT IS VALID UPTO: 30/11/2028

There is apparently a "Two Modes" in the tractor. The applicant has christened the different mode as "Standard and ECO". However, the applicant vide letter no. Nil dated 27.10.2023 requested to conduct the test only on so called Standard mode. Therefore, this report contains the observation on the so call "standard mode" only.

[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, Pune - 412 208
[D]	Location of tractor assembly	:	(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 (Madhya Pradesh) - 455 115
[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	:	20
	-Transmission	:	20
[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	:	JOHN DEERE
[C]	Model (trade name)	:	5310 4WD V1 GearPro
[C]	Type	:	Four Wheel Drive, Standard Agricultural Tractor.
[C]	Month & year of manufacture	:	09 & 23
[D]	Country of origin	:	India
1.1.2	Numbers:		
[D]	1 st Serial No. or prototype	:	1PY5310EPPA065910
[C]	Serial No.	:	1PY5310ECPL067904
1.2	Engine:		
[D]	Manufacturer's address	:	(i) 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
[C]	Make	:	John Deere India Pvt. Ltd.
[C]	Model	:	3029HPY119
[C]	Type	:	Four stroke, common rail direct injection, turbo charged, liquid cooled, diesel engine
[C]	Serial No.	:	PY3029U094315

T-1795/2326/2023	JOHN DEERE, 5310 4WD V1 GearPro TRACTOR - INITIAL COMMERCIAL TEST
	THIS TEST REPORT IS VALID UPTO: 30/11/2028

3.4 Brake Test

3.4.1 Service brake:

3.4.1.1 Cold brake test:

Date of test(s) : 19.10.2023
 Type of Track : Concrete
 Maximum attainable speed (kmph):
 - Without ballast : 32.66
 - With road ballast : 32.66

		At maximum attainable speed			
Unballasted tractor	Braking device control force, (N)	399	390	370	270
	Mean deceleration, (m/sec ²)	3.17	3.14	3.00	2.50
	Stopping distance, (m)	13.00	13.10	13.70	16.46
Road ballasted tractor	Braking device control force, (N)	424	390	370	298
	Mean deceleration, (m/sec ²)	3.12	2.96	2.84	2.50
	Stopping distance, (m)	13.18	13.90	14.50	16.46
		At 25 kmph travel speed			
Unballasted tractor	Braking device control force, (N)	399	390	370	270
	Mean deceleration, (m/ sec ²)	3.17	3.14	3.00	2.50
	Stopping distance, (m)	7.61	7.67	8.02	9.65
Road ballasted tractor	Braking device control force, (N)	424	390	370	298
	Mean deceleration, (m/sec ²)	3.12	2.96	2.84	2.50
	Stopping distance, (m)	7.72	8.14	8.49	9.65

3.4.1.2 Brake fade test:

		At maximum attainable speed			
Road ballasted tractor	Braking device control force, (N)	458	390	370	346
	Mean deceleration, (m/sec ²)	3.06	2.67	2.58	2.50
	Stopping distance, (m)	13.43	15.40	15.95	16.46
		At 25 kmph travel speed			
Road ballasted tractor	Braking device control force, (N)	458	390	370	346
	Mean deceleration, (m/ sec ²)	3.06	2.67	2.58	2.50
	Stopping distance, (m)	7.86	9.02	9.34	9.65

Maximum deviation of tractor from its original course, (m) : None
 Abnormal vibration : None
 The brakes were heated by : Self braking

3.4.2 Parking brake test:

Particulars	18 percent slope		12 percent slope with trailer of 2.500 tonnes.	
	Up	Down	Up	Down
Braking device control force, (N)	233	246	210	251
Efficacy of parking brake	-----Effective-----			

4. OPTIONAL TEST RESULTS

As the applicant has not applied for any optional tests, therefore no optional tests was conducted.

5. REPAIRS

S. No.	Adjustments/Defects/Breakdowns and Repairs	Tractor run hours
	None	

T-1795/2326/2023	JOHN DEERE, 5310 4WD V1 GearPro TRACTOR - INITIAL COMMERCIAL TEST
	THIS TEST REPORT IS VALID UPTO: 30/11/2028

6. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

6.1 On the basis of test conducted the performance results have been summarized as evaluative (mandatory) / Non-evaluative (Non-mandatory) parameters applicable for Qualifying Minimum Performance criteria as per Clause-4 (Table-1) of **IS: 12207-2022** for acceptance of the tractor for the purpose of subsidies/NABARD financing are summarized as under:

Sl. No.	Characteristic	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2022	Values declared by the applicant/ (D) Requirement (R)	As observed	Whether meets the requirements (Yes/No)
1	2	3	4	5	6	7
MANDATORY TESTS: (As per Ministry's Office Memorandum No. 13-17/2021-M&T (I&P) dated 28th of July, 2022).						
6.1.1	PTO Performance:					
a)	Maximum power under 2 h test, (kW) (Natural ambient condition)	Evaluative	Declared value to be achieved with a tolerance of: $\pm 5\%$ for PTO power and or engine power >26 kW $\pm 10\%$ for PTO power and or engine ≤ 26 kW.	37.3 (STD mode) (D)	37.4	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	36.8 (STD mode) (D)	36.9	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	Should not be more than 10% of declared value.	255 (STD mode) (D)	258	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	$\pm 8\%$	250 (STD mode) (D)	245.6	Yes
e)	Back-up torque, percent	Evaluative	Should be min. 12%	12 (D) 12 (R)	46.5	Yes
f)	Maximum operating temperature, ($^{\circ}$ C):					
	1) Engine oil	Evaluative	The declared value should not exceed the max. value specified by the oil company and the observed value under high ambient condition should not exceed the declaration.	135(D)	120	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)	106	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. Power under natural ambient conditions.	2.58 Maximum (R)	0.18	Yes
h)	Smoke level, m^{-1}	Evaluative	Maximum light absorption coefficient of 3.25 per meter or equivalent BOSCH No. 5.2 or 75 Hatridge value (As per CMVR).	3.25 per meter Maximum (R)	0.01	Yes
6.1.2	Drawbar performance:					
a)	Max. drawbar pull with ballast corresponding to 15 percent wheel slip, (kN)	Non Evaluative	Minimum 70% of static mass of tractor with ballast.	*	*	*

T-1795/2326/2023	JOHN DEERE, 5310 4WD V1 GearPro TRACTOR - INITIAL COMMERCIAL TEST
	THIS TEST REPORT IS VALID UPTO: 30/11/2028

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.	17.4 (D) 17.16 (R) Minimum	23.43	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.	29.84 (STD mode) (D) 29.8 (R) Minimum	33.0	Yes
d)	Maximum transmission oil temperature, (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	110 (D)	88	Yes

Remark (*): Applicant vide letter no. Nil dated 29.09.2023 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)	Maximum lifting capacity throughout the range of lift, (kN):					
	1)	At hitch points	Evaluative	Should not be less than 90% of declared value.	18.9 (D) 17.01 (R) Minimum	19.09 Yes
	2)	With the standard frame	Evaluative	The lift capacity should at least be 24 kg/PTO kW and it should be 21.5 kg/engine kW where the tractor is not provided with a PTO shaft.	14.5(D) 8.78 (R) Minimum	14.80 Yes
b)		Maximum drop in the height of the point of application of the force after each 5 minutes interval for a total duration of 30 Minutes, (mm)	Non Evaluative	The observed value should not exceed 50 mm	50 (D) Maximum	00 Yes
6.1.4	Brake performance at 25 kmph:					
a)	Maximum stopping distance at a force, equal to or less than 600 N on brake pedal without ballast, (m):					
	1)	Cold brake	Evaluative	10	10 (R)	7.72 Yes
	2)	Hot brake	Evaluative	10	10 (R)	7.86 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	OPTIONAL TESTS: As the applicant has not applied for any optional tests, therefore no optional tests was conducted.					

T-1795/2326/2023	JOHN DEERE, 5310 4WD V1 GearPro TRACTOR - INITIAL COMMERCIAL TEST
	THIS TEST REPORT IS VALID UPTO: 30/11/2028

1	2	3	4	5	6	7	
6.1.6	Safety features :						
a)	Guards against moving and hot parts	Evaluative	Belt drives, pulleys, silencer, hydraulic pipes [As per IS 12239 (Part2)]	Meets the requirement		Yes	
b)	Lighting arrangement	Evaluative	As per CMVR	Conforms		Yes	
c)	Seating requirements (Tractors having more than 1150 mm rear track width)	Non Evaluative	Should meet the requirements of IS: 12343 (As amended from time to time)	Does not meet the requirement		No	
d)	Technical requirements for PTO shaft	Non Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)	Conforms		Yes	
e)	Dimensions of three point linkage	Non Evaluative	Should meet the requirements of IS: 17231-2019 (Part-I) (As amended from time to time)	Does not meet the requirement		No	
f)	Specifications of linkage drawbar	Non Evaluative	Should meet the requirements of IS: 12953 (As amended from time to time)	Meets the requirement		Yes	
g)	Swinging drawbar (wherever fitted)	Non Evaluative	Should meet the requirement of IS: 12362 (Part 3) (As amended from time to time)	Not provided		Not applicable	
h)	1) Maximum travelling speed at rated engine speed in reverse gears, Kmph	Evaluative	Should not exceed 20 Kmph	17.67 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. The safety aspects about the operation of shuttle technology shall be brought in operation and manufacturer /dealer shall ensure the training on this aspect to operator before the delivery of tractor.	Not fitted		Not applicable	
6.1.7	Labelling of tractors (Provision of labelling plate):						
	1) Make	Evaluative	Should conform to the requirements of CMVR along with maximum PTO Power in kW and year of manufacture in numerical form. <table border="1" style="margin-left: 20px;"> <tr> <td>MM</td> <td>YY</td> </tr> </table> Digit 01 – 12 in box No.1 for MM will represent the months and next two digits in box No.2 for YY will represent the year of Manufacturing.	MM	YY	JOHN DEERE	Yes
MM	YY						
	2) Model	Evaluative		5310 4WD V1 GearPro	Yes		
	3) Month & Year of manufacture	Evaluative		09/23	Yes		
	4) Engine number	Evaluative		PY3029U094315	Yes		
	5) Chassis number	Evaluative		1PY5310ECPL067904	Yes		
	6) Maximum PTO power, (kW)	Evaluative		37.3 (51.0)	Yes		
	7) Specific fuel consumption ,g/kWh	Evaluative	255.0 (187.6)	Yes			

T-1795/2326/2023	JOHN DEERE, 5310 4WD V1 GearPro TRACTOR - INITIAL COMMERCIAL TEST
	THIS TEST REPORT IS VALID UPTO: 30/11/2028

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

6.2 CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2022):					
S. No.	Category of break-downs	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2022	As observed	Whether meets the Requirements (Yes/No)
1.	Critical	Evaluative	No critical breakdown	None	Yes
2.	Major	Evaluative	Not more than two and neither of them should be repetitive in nature	None	Yes
3.	Minor	Evaluative	Not more than five and frequency of each should not be more than two.	None	Yes
4.	Total breakdowns	Evaluative	In no case, the total number of breakdowns should exceed five, that is, (2 major + 3 minor) or (1 major + 4 minor) or 5 minor breakdowns.	None	Yes

6.3 Conformity with following IS:

- i)** Guidelines for declaration of power and specific fuel consumption and labeling of agricultural tractors (First revision) [IS:10273 -1987 (Reaffirmed Year 2019)] : **Conforms**
- ii)** Agricultural tractors - Rear mounted power take-off - Types 1, 2 and 3 (third revision) [IS:4931-1995 (Reaffirmed Year 2019)] : **Conforms**
- iii)** Agricultural wheeled tractors – Rear mounted three-point linkage: Part 1 Categories 1, 2, 3 & 4 (fourth revision) [IS:17231 – 2019] : **Does not conform**
- iv)** Drawbar for agricultural tractors – Link type [IS 12953:1990 (Reaffirmed Year 2022)] : **Conforms**
- v)** Agricultural tractors- Operator's seat technical requirement [IS12343 - 2021] : **Does not conform**
- vi)** Guide for safety & comfort of operator of agricultural tractors:Part 1 General requirements (first revision):[IS 12239 (Part 1) - 2018] : **Does not conform**
- vii)** Tractors and machinery for agriculture and forestry – Technical means for ensuring safety Part 2: Tractors (first revision) (IS 12239 (Part 2) 1999) (Reaffirmed Year 2019)] : **Does not conform**

T-1795/2326/2023	JOHN DEERE, 5310 4WD V1 GearPro TRACTOR - INITIAL COMMERCIAL TEST
	THIS TEST REPORT IS VALID UPTO: 30/11/2028

- viii) Guide lines for location and operation of operator controls on agricultural tractors and machinery [IS: 8133 - 2021] : **Does not conform**
- ix) Tractors and machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays Part2 Symbols for agricultural tractors and machinery [IS: 6283(Part-1) - 2006 (Reaffirmed Year 2019) and IS: 6283 (Part-2) – 2007 (Reaffirmed Year 2019)] : **Does not conform**
- x) Agricultural Tractors and Machinery-Lighting device for travel on public roads (IS:14683-1999) (Reaffirmed Year 2019)] : **Conforms**

6.4 Salient Observations:

6.4.1 Operator's seat:

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

- i) The height of upper edge of back rest above SRP has been measured as 220 mm against the minimum requirement of 260 mm.
- ii) Inclination of back rest has been measured as 20°, against the requirement of 5 to 15°.
- iii) Provision for adjustment of driver's mass has been specified as 50 to 120 kg against the requirement of 40 to 100 kg.
- iv) Vertical distance from seat index point to centre of accelerator pedal & differential lock pedal has been measured as 520 & 500 mm respectively against the requirement of 230 to 460 mm.
- v) Longitudinal distance from seat index point to centre of differential lock pedal has been measured as 220 mm against the requirement of 410 to 720 mm.
- vi) Vertical distance of seat index point from foot rest has been measured as 575 mm against the requirement of 450 to 520 mm.

This should be looked into for necessary corrective action.

6.4.2 Operator's work place:

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

- i) Spark arresting device has not been provided in the exhaust system.
- ii) Vertical retainers on inner side of clutch pedal are not provided.
This should be looked into for necessary corrective action.

6.4.3 Three point linkage:

The dimensions viz. diameter of hitch pin hole & width of ball of upper hitch points & diameter of hitch pin hole of lower hitch points does not meet the requirements of IS: 17321-2019. This should be looked into for corrective action.

6.4.4 Specification of Tractor

- i) 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.	Name & Brand name of coolant, Coolant -water ratio	Recochem ethylene glycol, 1:4	John Deere COOL-GARD II Premix. (P. No. 85-6)
b.	Power at rated engine speed, kW	36.8	36.6 (P. No. 130-2)

- ii) Power of generator is given as 60 A in the technical specification submitted by applicant, whereas power should be mentioned in kW. This should be looked into for necessary corrective action.

6.5 Maintenance / Service Problems:

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

T-1795/2326/2023	JOHN DEERE, 5310 4WD V1 GearPro TRACTOR - INITIAL COMMERCIAL TEST
	THIS TEST REPORT IS VALID UPTO: 30/11/2028

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 revaluation gauge has not been provided as per the requirement as laid down in IS: 6283 (Part 2): 2007 (Reaffirmed year 2019).
- iii) The working clearance between PTO Clutch 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 5310, 5405 and 5075E (Trem Stage IV)
- b) Workshop/ Service/ Repair Technical Manual Part-1 & Part-2 for John Deere 5310, 5405 & 5075E (Trem Stage IV) tractor models.
- c) Parts Catalogue Part-1 & Part-2 for John Deere 5310 & It's variant tractor model.

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

TESTING AUTHORITY

C.K. TIJARE AGRICULTURAL ENGINEER	
R.P. PANDEY SENIOR INSTRUMENTATION ENGINEER	
A. K. UPADHYAY DIRECTOR (I/C)	

Draft Test Report compiled by **C.K. Tijare**, Agricultural Engineer & **Poonam Khurasia**, Senior Technical Assistant.

T-1795/2326/2023	JOHN DEERE, 5310 4WD V1 GearPro TRACTOR - INITIAL COMMERCIAL TEST
	THIS TEST REPORT IS VALID UPTO: 30/11/2028

7. APPLICANT'S COMMENTS

Para No.	Our reference	Applicants comments
7.1	6.4.4	Your valuable comments and suggestions for improvements are well taken. Under our policy of continuous product improvement these aspects are further being looked into and will try to eliminate these deviations soon wherever necessary.

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	13.4
3.	Power lift and hydraulic pump performance test	3.8
4.	Drawbar performance test	6.5
5.	Brake performance test	2.0
6.	Nominal speed test	3.0
B.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test.	0.9
TOTAL:		29.6