व्यावसायिक परीक्षण रिपोर्ट (प्रथम बैच रंाख्या / No. : T- 1567/2095/2021 परीक्षण) COMMERCIAL TEST REPORT (First Batch Test) माह / Month : July, 2021

(यह परीक्षण रिपोर्ट31/07/2026 तक वैध है। / THIS TEST REPORT IS VALID UPTO : 31/07/2026)

JOHN DEERE 5310 V3 TRACTOR



भारत सरकार कृषि एवं किसान कल्याण मंत्रालय (कृषि, सहकारिता एवं किसान कल्याण विभाग) GOVERNMENT OF INDIA MINISTRY OF AGRICULTURE AND FARMERS WELFARE (Department of Agriculture, Cooperation & Farmer's Welfare) केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान ट्रैक्टर नगर, बुदनी (म.प्र.)466 445 CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE (An ISO 9001: 2015 Certified Institute) TRACTOR NAGAR, BUDNI (M.P.) 466 445

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Page 1 of 51

T-1567/2095/2021	JOHN DEERE 5310 V3 TRACTOR – COMMERCIAL (FIRST BATCH TEST)
	(THIS TEST REPORT IS VALID UPTO: 31/07/2026)

The **"JOHN DEERE 5310 V3"** tractor had undergone **"Initial Commercial Test"** at this Institute, bearing report No.**T-1082/1607/2017** released in April, 2017 and **Commercial Administrative Extension** test report **No. T-1340/1867/2020 (March, 2020)**. Now the applicant has submitted an application vide letter no. Nil dated 11/08/2020 for batch testing of **"JOHN DEERE 5310 V3" TRACTOR**.

All the necessary tests as per table-1 of clause 6.0. of IS: 5994 -1998 (Reaffirmed in 2014) were carried out and test report released as under:

Manufacturer	:	M/s. John Deere India Pvt. Ltd. Gat No.166 - 167 & 271 - 291, Off Pune - Nagar Road, Sanaswadi, Pune– 412 208 (M.S.)
Location of plant	:	M/s. John Deere India Pvt. Ltd. Survey No. 501, Village – Khatamba Jamgod, Dewas Bhopal Highway, Dewas (Madhya Pradesh) 455115
Test requested by (applicant)	:	The manufacturer
Selected for test by	:	The applicant
Place of running-in	:	At manufacturer's works
Duration of said running-in (h):		
- Engine	:	12
- Transmission	:	12
Method of Selection	:	Due to Covid-19 Pandemic, it was not possib to conduct the random selection. Nor was

ion : Due to Covid-19 Pandemic, it was not possible to conduct the random selection. Nor was possible for applicant to facilitate the random selection. As a last resort, applicant requested to allow the direct submission of test sample, which was allowed.

1. SPECIFICATIONS

1.1 Tractor:

Make

Model

- : John Deere
- : 5310 V3

·	Variants, if any :			
S. No.	Variant model	Variant features		
1.	5310 V1	Change in B range selection speeds. {tested vide test report no. T-1141/1667/2018 (March,2018)}		
-	Туре	: Four wheeled, Rear wheel driven, General Purpose, Agricultural Tractor.		
l	Month & Year of manufacture	: 10 & 2020		
	Chassis number	: 1PY5310ETLA052262		
(Country of Origin	: India		
1.2	Engine:			
	Make	: John Deere		
I	Model	: 3029 HPY 60		
-	Туре	: Four stroke, turbo charged, liquid cooled, direct injection, diesel engine.		
:	Serial number	: PY3029H150666		

T-1567/2095/2021	JOHN DEERE 5310 V3 TRACTOR – COMMERCIAL (FIRST BATCH TEST)
	(THIS TEST REPORT IS VALID UPTO: 31/07/2026)

14. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

14.1 On the basis of tests conducted the performance results have been summarized as evaluative (mandatory) and non-evaluative (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.	C	haracteristic	Category (Evaluative /Non Evaluative)	Requirements as per IS: 12207-2019	Values declared by the applicant (D) /	As observ	Whether meets the require
					(R)	eu	(Yes/No)
1		2	3	4	5	6	7
14.1.1	PTC	Performance :	1		1	1	r
a)	Max 2 h t (Nat cond	. power under æst, (kW) ural ambient dition)	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.	36.4 (D)	36.6	Yes
b)	Pow engi	er at rated ne speed, (kW)	Non Evaluative	-do-	36.4 (D)	35.3	Yes
c)	Spectors cons corre max (g/k)	cific fuel sumption esponding to imum power, <i>W</i> h)	Evaluative	+ 10% Max.	325 (D)	301	Yes
d)	Max equi cran (Nm	imum valent kshaft torque,)	Non Evaluative	± 8%	229 (D)	215	Yes
e)	Bacl perc	k-up torque, ent	Evaluative	12 percent, min.	12 (D) 12 (R)	53.0	Yes
f)	Max	imum operating t	emperature(°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)	125	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)	114	Yes
g)	Engi cons (g/k)	ine oil sumption, Wh)	Evaluative	Not exceeding 1% of SFC at max. power under High ambient conditions	3.01 (R) Maximum	0.24	Yes
h)	Smo	oke level, (m ⁻¹)	Evaluative	Maximum light absorption coefficient of 3.25 per meter or equivalent BOSCH No. 5.2 or 75 Hat ridge value (As per CMVR)	3.25 (R)	0.51	Yes

1		2	3	4	5	6	7	
14.1.2	Drav	vbar performan	ce:					
a)	Maxi pull	mum drawbar with ballast	Non Evaluative	Minimum 70% of static mass with ballast	21.92 (D)	24.02	Vaa	
	perce (kN)	ent wheel slip,			20.46 (R) Minimum	24.03	res	
b)	Maxi pull corre perce (kN)	mum drawbar without ballast sponding to 15 ent wheel slip,	Evaluative	Minimum 70% of static mass of tractor without/ standard ballast	15.44 (D) 14.42 (R) Minimum	18.75	Yes	
c)	Max pow balla stan the kW	imum drawbar er without ist, or with dard ballast as case may be,	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.	29.1 (D) 29.3 (R) Minimum	30.8	Yes	
d)	Maxi trans temp	mum mission oil perature (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company.	110 (D)	80	Yes	
14.1.3	Pow	Power lift and hydraulic pump performance :						
a)	Max	imum lifting capa	city through	out the range of lift, (kN):				
	1)	At hitch points	Evaluative	±10 percent	17.50 (D)	18.85	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	12.9 (D) 8.6 (R) Minimum	14.12	Yes	
b)	Maxi heigh appli force minu total minu	mum drop in the nt of the point of cation of the after each 5 tes interval for a duration of 30 te, (mm)	Non Evaluative	The observed value should not exceed 50 mm	50 (D) 50 (R) Maximum	05	Yes	
14.1.4	Bral	ce performance	at 25 kmph:					
a)	Max	mum stopping di	stance at a f	orce equal to or less than 60	00 N on bra	ke peda	l with	
	1)	Cold brake	Evaluative	10	10 (R)	7.64	Yes	
	2)	Hot brake	Evaluative	10	10 (R)	7.73	Yes	
b)	Maxi exer brak achie dece m/s ²	mum force ted on the e pedal to eve a eleration of 2.5 (N)	Evaluative	600	600 (R)	211 to 232	Yes	

1		2	3	4	5	6	7
c)	Whe brake a for foot N at	ther parking e is effective at rce of 600 N at pedal(s) or 400 hand lever, N	Evaluative	Yes / No	Yes (R) 289		Yes
14.1.5	Nois	se measuremen	t :				
a)	Maximum ambient noise emitted by the tractor dB(A)		Evaluative	As per CMVR	88 (R)	81	Yes
b)	Maxi opera dB(A	mum noise at ator's ear level \)	Evaluative	As per CMVR	96 (R)	94	Yes
14.1.6	Amp	olitude of mecha	anical vibrat	ions at :			
	1)	Left foot rest		100 microns (max)	100	274	No
	2)	Right foot rest	Non	-do-	(R)	458	No
	3)	Seat (with driver seated)	Evaluative	-do-		53	Yes
	4)	Steering wheel		do-		168	No
14.1.7	Air cleaner oil pull over :						
	Maximum air cleaner oil pull over		Evaluative	0.25 % (max.)	Dry type ai prov	r cleaner is ⁄ided	Yes
14.1.8	Haulage requirements :						
a)	Gros	ss mass of the tr	ailers, (tonn	<u>e):</u>		•	
	1)	Two wheel	Non	As specified by	5.0 (D)	5.0	Yes
	2)	Four wheel	Evaluative	the	7.0 (D)	7.0	Yes
b)	Diet	anaa travallad / l	itro of fuel of	manufacturer	<u> </u>		
D)		Two wheel	Non	As specified by). 4 to 6 (D)	3 68 to 3 87	No
	2)	Four wheel	Evaluative	the	4 (0 0 (D)	3.00 10 3.07	NO
	2)	i oui wheel	Lialaaliio	manufacturer	4 to 6 (D)	3.31 to 3.39	No
C)	Fuel	consumption (n	nl/km/tonne)				
	1)	Two wheel	Non	As specified by	30 to 40 (D)	51.74 to 54.40	No
	2)	Four wheel	Evaluative	the manufacturer	30 to 40 (D)	42.14 to 43.17	No
14.1.9	Wet	land cultivation	:		[
	Seal	ing for the	Evaluative	The identified	There should	No ingress of	Yes
		Ving assemblies:	do	essentially meet	be no	water was	
	''	assembly	-00-	the requirement of	ingress of	observed	
	2)	Brake	-do-	IS: 11082. No	water and /	during ICI	
	_,	housings		the identified		report no.	
	3)	Front axle	-do-	assembly given in	(13)	T-1082/1607/2017	
		hubs		lf tractor does not		(April, 2017)	
	4)	Engine Oil	-do-	meet the requirements of			
	5)	Transmission Oil	-do-	it may be recommended for dry land operation only.			

T-1567/2095/2021

JOHN DEERE 5310 V3 TRACTOR – COMMERCIAL (FIRST BATCH TEST)

(THIS TEST REPORT IS VALID UPTO: 31/07/2026)	

14.1.10	Saf	ety features :				
a)	Gua	ards against	Evaluative	Belt drives, pulleys, silencer bydraulics	Meet the	Yes
	part	s		pipes(as per IS-12239 Part 2)	requirements	
b)	Ligh arra	nting ngement	Evaluative	As per CMVR	Meet the requirements	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 requirements	No
d)	Tec requ for F	hnical uirements PTO shaft	Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)	Meet the requirements	Yes
e)	Dim thre	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)	Specifications of linkage 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 provided	Not appli- cable
h)	1)	Maximum travelling speed at rated engine speed in reverse gears, kmph	Evaluative	Should not exceed 20 Kmph	(24.32 kmph) Meet the requirements	Yes
	2)	Audible warning signal on tractor.	Evaluative	As soon as the travelling speed in reverse gear reaches to 20 kmph, an audible warring signal on tractor 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.	Audible warning signal is activated when reverse gear travel speed in CR gear reaches to 20.00 kmph.	Yes
14.1.11		elling of tractors	(Provision o	f labelling plate):		Vee
	1)	IVIAKE Model	Evaluative	Should conform to the	JUHN DEERE	Yes
	2) 3)	Month & Year of manufacture	Evaluative	along-with declared value of PTO in kW and year of man <u>ufacture in nume</u> rical	10 & 2020	Yes
	4)	Engine number	Evaluative	MM YY Digit 01-12 in box No.1	PY3029H150666	Yes
	5)	Chassis number	Evaluative	for MM will represent the month and next two digit in the box No.2 for YY will	1PY5310ETLA052262	Yes
	6)	Declaration of PTO power, kW (hp)	Evaluative	represent the year of manufacturing	36.4 (49.5)	Yes

1		2	3	٨	5	6	7
14 1 12	Die	scard limit for:	•		0	Ū	
(2)	Cv	linder hore	Evaluative				
(4)	dia	meter, (mm)	Evaluative	To be specified by	106.77	106.49 to106.51	Yes
(b)	Cle	earance between	Non	Manufacturer			
	pis	ton & cylinder	Evaluative		0.32	0.117 to 0.122	Yes
	line	er at skirt, (mm)	Niere				
(C)	PIS	ston diameter at	NON Evoluativo		106.30	106.40	Yes
(d)	Di	ng ond gan (mg					
(u)	Top comp ring		1). 	-do-	0.75	0.45 to 0.50	Ves
	-	2 nd comp. ring.	Evaluative	-do-	2 00	0.40 10 0.00	Yes
	-	Oil ring	Lialative	-do-	0.75	0.55	Yes
(e)	Ri	ng groove clear	ance (mm):		011 0	0.00	
(0)	-	Top comp. ring.	Evaluative	-do-	NA	Tappered	Yes
	-	2 nd comp. ring.	-do-	-do-	0.25	0.040 to 0.044	Yes
	-	Oil ring.	-do-	-do-	0.92	0.047 to 0.048	Yes
(f)	Clearance of main end bearings. (mm):						
(-)	-	Diametrical	Evaluative	-do-	0.65	0.097 to 0.108	Yes
	-	Crank shaft	Evaluative	-do-	0.85	0.18	Ves
	end float Evaluative -d0- 0.65 0.18			0.10	103		
(g)	Cle	earance of big er	nd bearings, (<u>mm):</u>			
	-	Diametrical	Evaluative	-do-	0.65	0.108 to 0.129	Yes
(b)	-	Axiai	Evaluative	-00-	0.85	0.25	res
(11)	kind	a bin and	Non	-do-	0.80	0.12 to 0.13	Yes
	bus	sh,(mm)	Evaluative		0.00		
(i)	Cle	arance between	Non				
	cen	iter pin and	Evaluative	-do-	0.80	0.10 to 0.12	Yes
	bush,(mm)			ļ			
14.1.13	Lit	erature (Submi	ssion to test	agency):	<u> </u>		
(a)	Op	erator manual	Evaluative	Not Provided	Provided	Provided	Yes
(b)	Pa	rts Catalogue	Evaluative	Provided /	Provided	Provided	Yes
(5)	١u	no outuloguo	Evaluative	Not Provided	1 Iovided	1 TOVIGOU	100
(C)	Wo	orkshop/	Evaluative	Provided /	Provided	Provided	Yes
	Se	rvice manual		Not Provided			
14.1.14	Fit	ment of Roll Over	Evaluative	ROPS should	Not	Not fitted	Not
	Pro	Directive Structure		requirement of	Provided		appli-
	(Ru	ving more than		IS:11821 or			cable
	11	50 mm rear track		OECD code or			
	wic	lth		equivalent			
				Standard			
14.1.15	Sta	andard	Evaluative	Trailer hitch,	Provided	Provided	Yes
	aco	cessories		front tow hook,			
				linkage drawbar			
				should be			
				tractor			
44440	Δ		New	Ballaat weighte	Drevieler	Dresided	Vee
14.1.16		cessories	INON Evoluctive	if fitted should	Provided	Provided	res
		puonar		meet the			
				requirement of			
				CMVR.			

14.2	CATEGORY OF BREA	AKDOWNS / DE	FECTS (As per clause 5.0 of	IS-12207-20)19):
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 1 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 four that is, (1 major + 3 minor) or 4 minor breakdowns	None	Yes

14.4 Salient Observations:

14.4.1 Laboratory tests:

14.4.1.1 PTO performance:

- i) The maximum PTO power was recorded as **36.6 kW** against the declaration of **36.4 kW**, which meets the evaluative requirement of IS: 12207-2019 with regard to tolerance limit.
- ii) The specific fuel consumption corresponding to maximum power was measured as **301 g/kWh** against the declaration of **325g /kWh**, which meets the evaluative requirement of IS: 12207-2019 with regard to tolerance limit.
- iii) The maximum equivalent crankshaft torque was recorded as 215 Nm against the declaration of 229 Nm, which is within the permissible limit as specified in IS: 12207-2019.
- iv) The backup torque was observed **53.0** %, which meets the evaluative requirement of IS: 12207-2019 with regard to tolerance.

14.4.1.2 Drawbar performance test:

During ten hours drawbar performance test, creeping of LHS rear tyre over the rims was recorded as **15 mm**. This should be looked into for necessary corrective action.

14.4.1.3 Hydraulic performance test:

The moment about rear axle with standard frame was calculated as **22.59 kN-m**. Whereas, the moment about front axle was calculated as **14.49 kN-m** under unballasted condition. The moment about rear axle is on higher side as compared to the moment about front axle. It is, therefore, recommended that the lifting capacity of the hydraulic system may be reduced suitably or standard ballast recommendation may be reviewed to avoid the front lifting of the tractor.

14.4.1.4 Mechanical Vibration:

The amplitude of mechanical vibration on various assemblies marked as (*) in **Chapter - 8** of this test report is on higher side. This calls for dampening down of vibrations especially on steering control wheel to improve the operational comfort and service life of components.

14.4.1.5 Three point linkage:

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

T-1567/2095/2021	JOHN DEERE 5310 V3 TRACTOR – COMMERCIAL (FIRST BATCH TEST)
	(THIS TEST REPORT IS VALID UPTO: 31/07/2026)

14.4.1.6 Linkage drawbar:

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

14.4.1.7 Operator's Seat

The Longitudinal distance from centre of differential lock pedal to Seat Index Point does not meet the requirement of the IS: 12343 -1998 (Re-affirmed in 2014). This should be looked into for necessary corrective action.

14.4.1.8 Operator's work place:

Operator's work place meets the requirements of IS:12239(Part-1)1996 (Reaffirmed Oct., 2017), **except the following**:

- i) Provision of vertical retainness at inner side of clutch pedal.
- ii) Provision of spark arresting device in the exhaust system.

14.4.1.9 Constructional requirement with regard to safety:

Constructional requirement with regard to safety meets the requirements of IS: 12239 (Part-2)-1999 (Reaffirmed in 2014), except the provision of working clearance between the mudguard and position control lever.

14.4.1.10 Labelling Plate:

- i) The **specific fuel consumption** was not declared on labeling plate and does not meet the requirement of IS: 10273-1987 and therefore, should be looked into for necessary corrective action.
- ii) The maximum PTO power has been specified as 36.4 kW (49.5 hp) vide labelling plate of the tractor. As per the conversion, the power of 36.4 kW is equals to 48.8 hp and not equals to 49.5 hp. This needs to be looked into for necessary corrective action.

14.4.1.11 Running-in Schedule:

The engine running-in schedule has been specified as "20 hours" vide para 3.0 of application format no.3. However, the same has been specified as "12 hours" vide Annexure II. This needs to be looked into for necessary corrective action.

14.4.2 Field performance test:

14.4.2.1 Haulage performance:

- i) The distance travel per litre of fuel consumption in case of two wheel and four wheel trailer was observed as 3.68 to 3.87 km/l & 3.31 to 3.39 km/l against the declaration of 4 to 6 km/l. The observed value is on lower side and does not meet the non-evaluative requirement of IS: 12207-2019 with regard to tolerance. This should be looked into for necessary corrective action.
- ii) The specific fuel consumption (ml/km/ton) in case of two wheel and four wheel trailer was recorded as 51.74 to 54.40 ml/km/ton & 42.14 to 43.17 ml/km/ton, against the declaration of 30 to 40 ml/km/ton. The observed value was on higher side and does not meet the non - evaluative requirement of IS: 12207-2019 with regard to tolerance. This should be looked into for necessary corrective action.

14.4.2.2 Wetland cultivation (Puddling operation):

No ingress of mud and / or water was observed during initial commercial test, tested vide test report No.T-1082/1607/2017, (April).

14.5 Maintenance / Service Problems:

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

T-1567/2095/2021	JOHN DEERE 5310 V3 TRACTOR – COMMERCIAL (FIRST BATCH TEST)
	(THIS TEST REPORT IS VALID UPTO: 31/07/2026)

14.6 Recommendation with regard to safety on tractor:

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

- i) Provision of spark arresting device in exhaust system.
- ii) The working clearance between position lever and mudguard does not meet the requirement of IS: 12239 (part-2)-1999.
- Longitudinal distance from centre of differential lock pedal to Seat Index Point does not meet the requirement. It should be provided as per IS: 12343-1998, (Re-affirmed in 2014).
- iv) Vertical retainers at inner side of clutch pedal should be provided as per relevant standard.

14.7 Adequacy of Literature supplied with machine:

- **14.7.1** The following literatures were supplied with the test tractor for reference during the test:
 - i) Operator's Manual (For 5310V1, 5310 V3, 5310 V4, 5310V5, 5310 V6, 5050E, 5120, 5055E, 5060E, 5065E 5075E & 5405 tractor models).
 - Workshop Service / Technical manual Part 1, 2 & 3 (For 5310V1, 5310 V3, 5310 V4, 5310 V5, 5310 V6, 5050E, 5120, 5055E, 5060E, 5065E 5075E & 5405 tractor models).
 - iii) Parts Catalogue (For 5310 V1, 5310 V3, 5310 V4, 5310 V5 & 5310 V6 tractor models).
- **14.7.2** The literatures should also be brought out in national as well as other regional languages for the guidance of users and service personnel.

TESTING AUTHORITY:

TESTING AUTHORITY:

C.V. CHIMOTE TEST ENGINEER	Amunat
Y.K.RAO SENIOR AGRICULTURAL ENGINEER	len
P. K. PANDEY DIRECTOR	USn-mosz

Draft test report is compiled by: Shwetabh Singh, Agricultural Engineer.

T-1567/2095/2021	JOHN DEERE 5310 V3 TRACTOR – COMMERCIAL (FIRST BATCH TEST)	
	(THIS TEST REPORT IS VALID UPTO: 31/07/2026)	

15. APPLICANT'S COMMENTS

Para No.	Our Reference	Applicant's comments
15.1	14.4.1.2, 14.4.1.3, 14.4.1.4, 14.4.1.7 & 14.4.1.10	Your valuable comments and suggestion for improvement are well taken. Under our policy of continuous product improvement these aspects are further being looked into and will try to eliminate these deviation soon wherever necessary.

ANNEXURE- I

TRACTOR RUN HOURS DURING TEST

Α.	LABORATORY AND TRACK TESTS	HOURS
1.	Running-in	24.0
2.	PTO performance test	9.4
3.	Drawbar performance test	18.7
4.	Power lift and hydraulic pump performance test	3.0
5.	Brake test	1.8
6.	Noise measurement	1.4
7.	Mechanical vibration test	1.0
8.	Nominal speed test	0.9
В.	HAULAGE TEST	5.0
C.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test.	7.8
	TOTAL:	73.0