

(यह परीक्षण रिपोर्ट 28/02/2026 तक वैध है। / THIS TEST REPORT IS VALID UP TO : 28/02/2026)



ESCORTS LIMITED, FARMTRAC 6050 TRACTOR



सत्यमेव जयते

भारत सरकार

कृषि एवं किसान कल्याण मंत्रालय
कृषि, सहकारिता एवं किसान कल्याण विभाग
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
ट्रैक्टर नगर, बुदनी (म.प्र.) ४६६ ४४५

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE

(An ISO : 9001 - 2015 Certified Institute)

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Page 1 of 49

T-1515/2042/2021	ESCORTS LIMITED, FARMTRAC 6050 TRACTOR - COMMERCIAL- (FIRST BATCH TEST)
	THIS TEST REPORT IS VALID UPTO : 28/02/2026

The "ESCORTS LIMITED, FARMTRAC 6050" tractor had undergone "Initial Commercial Test" at this Institute and a test report No. T-988/1512/2015 released November, 2015. Thereafter, the firm had made modification in the specification of the tractor such as dry type air Intake system, change in radiator size are permanently incorporated and tested under Technical Extension vide test report No. T- Draft/--- /2021 released in January ,2021. Now the applicant has submitted an application vide letter No. ERC: BUDNI: FT6050-132/20 for Batch testing of "ESCORTS LIMITED, FARMTRAC 6050".

All 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. Escorts Limited,
Plot No 2 & 3, Sector-13,
Faridabad – 121 007 (Haryana)

Test requested by : M/s. Escorts Knowledge
Management,15/5, Mathura Road,
Faridabad – 121 003 (Haryana)

Selected for test by : The testing authority

Place of running-in : At Applicant's works

Duration of said running-in (h):

- Engine : 20

-Transmission : 30

Method of Selection : The test sample was selected randomly out
of five tractors from the production line by
the representative of testing authority.

Tractors chassis serial number made available for random selection:

- i) T052496818LJ
- ii) T052496822LJ
- iii) T052496831LJ
- iv) T052496837LJ (Selected)
- v) T052496840LJ

1. SPECIFICATION

1.1 Tractor:

Make : Escorts Limited

Model : Farmtrac 6050

Brand name : Farmtrac

Type : Four wheeled, rear-wheel driven, Unit
construction, Standard Agricultural Tractor

Variant: if any : Yes

Sr.no	Variant model	Variant features	
1.	Escorts Ltd.60 F2 (Brand name -Farmtrac) Vide test report no. T-1083/1608/2017, (April,2017)	i)	Change in final reduction unit & Brake lining area increased

Year of manufacture : 02 | 20

Chassis number : T052496837LJ

Country of origin : India

1.2 Engine:

Make : Escorts Limited

Model : AF3.344F-3A

Type : Four stroke, naturally aspirated, water
cooled, direct injection, diesel engine.

Serial number : E2499801

T-1515/2042/2021	ESCORTS LIMITED, FARMTRAC 6050 TRACTOR - COMMERCIAL- (FIRST BATCH TEST)
	THIS TEST REPORT IS VALID UPTO : 28/02/2026

- | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>i) Maximum lifting capacity throughout the range of lift at hitch point and standard frame was recorded as 15.1 kN & 13.23 kN respectively against the declaration of 14.7 kN & 9.80 kN respectively, which meets the evaluative requirement of IS: 12207.</p> | <p>i) Maximum lifting capacity throughout the range of lift at hitch point and standard frame was recorded as 15.23 kN & 13.27 kN respectively against the declaration of 14.7 kN & 9.80 kN respectively, which meets the evaluative requirement of IS: 12207-2019.</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p style="text-align: center;"><u>Previous Sample</u></p> <p>ii) The maximum Cumulative drop in height of lift during load maintenance test was observed was 85 mm which does not meet the limit of 50 mm of IS-12207. This should be looked into for necessary corrective action.</p> | <p style="text-align: center;"><u>Present Sample</u></p> <p>ii) The maximum Cumulative drop in height of lift during load maintenance test was observed was 220 mm which does not meet the limit of 50 mm of IS-12207-2019. This should be looked into for necessary corrective action.</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

13.5 Adequacy of literature:

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Following literatures has been supplied with the tractor for reference during the test.</p> <p>i) Operator's Manual in respect of Farmtrac – 6050 tractor.</p> <p>ii) Tractor parts catalogue in respect of Farmtrac – 6050 tractor.</p> <p>iii) Tractor Repair Manual in respect of Farmtrac – 6050 tractor.</p> | <p>Following literatures has been supplied with the tractor for reference during the test.</p> <p>i) Operator's Manual in respect of Farmtrac – 6050 tractor.</p> <p>ii) Tractor parts catalogue in respect of Farmtrac – 6050 tractor.</p> <p>iii) Tractor Repair Manual in respect of Farmtrac – 6050 tractor.</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

14. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

14.1 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: 12207-2019** 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: 12207-2019	Values declared by the applicant/ (D) Requirement (R)	As observed	Whether meets the requirements (Yes/No)
1	2	3	4	5	6	7
14.1.1	PTO Performance:					
a)	Maximum power under 2 h test, (kW) (Natural ambient condition)	Evaluative	Declared value to be achieved with a tolerance of: ±5% for PTO power and or engine power >26 kW. ±10% for PTO power and or engine ≤ 26 kW.	32.3 (D)	31.5	Yes
b)	Power at rated engine speed, (kW)	Non-Evaluative	-do-	32.3 (D)	31.0	Yes
c)	Specific fuel consumption corresponding to	Evaluative	+ 10% max.	260 (D)	263	Yes

T-1515/2042/2021	ESCORTS LIMITED, FARMTRAC 6050 TRACTOR - COMMERCIAL- (FIRST BATCH TEST)					
	THIS TEST REPORT IS VALID UPTO : 28/02/2026					

	maximum power, (g/kWh)					
d)	Maximum equivalent crankshaft torque, (Nm)	Non-Evaluative	± 8%	215 (D)	196.1	Yes
e)	Back-up torque, percent	Evaluative	12 percent	12% (D)	22.6	Yes
				12 %, min (R)		

1	2	3	4	5	6	7	
f)	Maximum operating temperature, (°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.	130 (D)	121	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.	110 (D)	93	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. power under High ambient conditions.	2.65 (R)	0.18	Yes	
				2.60 (D)			
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 (R)	0.16 per meter	Yes	
14.1.2	Drawbar performance:						
a)	Max. drawbar pull with ballasted corresponding to 15 percent wheel slip, (kN)	Non-Evaluative	Minimum 70% of static mass of tractor with ballast.	18.80 (D)	22.14	Yes	
				19.70 (R) Minimum			
b)	Max. drawbar pull without ballasted as the case may be 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.	14.00 (D)	17.49	Yes	
				15.07 (R) Minimum			
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	25.8 (D)	25.7	Yes	
				25.2 (R) Minimum			

T-1515/2042/2021	ESCORTS LIMITED, FARMTRAC 6050 TRACTOR - COMMERCIAL- (FIRST BATCH TEST)
	THIS TEST REPORT IS VALID UPTO : 28/02/2026

			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.			
d)	Maximum transmission oil temperature ($^{\circ}\text{C}$)	Evaluative	The declared value should not exceed the maximum value specified by oil company	125 (D)	111	Yes

1	2	3	4	5	6	7
14.1.3	Power lift and hydraulic pump performance:					
a)	Maximum lifting capacity throughout the range of lift, (kN):					
1)	At hitch points	Evaluative	Tolerance of $\pm 10\%$	14.7 (D)	15.23	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.	9.80 (D) 7.41 (R) Minimum	13.27	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	220	No
14.1.4	Brake performance at 25 kmph:					
a)	Maximum stopping distance at a force, equal to or less than 600 N on brake pedal with unballast, (m):					
1)	Cold brake	Evaluative	10	10 (R)	7.55	Yes
2)	Hot brake	Evaluative	10	10 (R)	7.76	Yes
b)	Maximum force exerted on the brake pedal to achieve a deceleration of 2.5 m/s^2 (N)	Evaluative	600	600 (R) Maximum	174 to 216	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	Yes	Yes
14.1.5	Noise measurement:					
a)	Maximum ambient noise emitted by the tractor dB(A)	Evaluative	As per CMVR	88 (R)	82	Yes
b)	Maximum noise at operator's ear level dB(A)	Evaluative	As per CMVR	96 (R)	94	Yes
14.1.6	Amplitude of mechanical vibrations at:					
1)	Left foot rest	Non Evaluative	100 microns (max)	100(R)	161	No
2)	Right foot rest				162	No
3)	Seat (with driver seated)				39	Yes
4)	Steering wheel				123	No

T-1515/2042/2021	ESCORTS LIMITED, FARMTRAC 6050 TRACTOR - COMMERCIAL- (FIRST BATCH TEST)
	THIS TEST REPORT IS VALID UPTO : 28/02/2026

14.1.7	Air cleaner Oil Pull-Over: (*)					
	Maximum air cleaner oil pull over, (%)	Evaluative	0.25% (Maximum)	Dry type air cleaner fitted	Not applicable	
14.1.8	Haulage requirements:					
a)	Gross mass of the trailers, (tones):					
	Two wheel	Non-Evaluative	--	5.0 (D)	5.0	Yes
	Four wheel	Evaluative	--	6.0 (D)	6.0	Yes
b)	Distance travelled / liter of fuel consumption, (km/l):					
	Two wheel	Non-Evaluative	--	5.0 to 5.5 (D)	5.20 to 5.24	Yes
	Four wheel	Evaluative	--	4.9 to 5.3 (D)	4.95 to 5.01	Yes
c)	Fuel consumption (ml/km/tonne):					
	Two wheel	Non-Evaluative	--	31 to 34 (D)	38.20 to 38.44	No
	Four wheel	Evaluative	--	36 to 40 (D)	33.24 to 33.65	No

1	2	3	4	5	6	7
14.1.9	Wetland cultivation (Puddling Operation): (*)					
	Sealing for the following assemblies:	Evaluative	The identified assemblies should essentially meet the requirement of IS: 11082. No water ingress in the identified assembly given in column-2. If tractor does not meet the requirements of wetland cultivation, it may be recommended for dry land operation only.	There should be no ingress of water and/or mud (R)	No ingress of water and / or mud was observed during ICT test vide test report no. T-988/1512 /2015 (November, 2015)	Yes
	1) Clutch assembly	-do-				
	2) Brake housings	-do-				
	3) Front axle hubs	-do-				
	4) Engine oil	-do-				
	5) Transmission oil	-do-				

14.1.10	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	Meets the requirement	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)	Meets the requirement	Yes
d)	Technical requirements for PTO shaft	Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)	Meets the requirement	Yes
e)	Dimensions of three point linkage	Non Evaluative	Should meet the requirements of IS: 4468 (Part-I) (As amended from time to time)	Does not meet the requirement	No
f)	Specifications of linkage	Evaluative	Should meet the requirements of IS: 12953 (As amended from time to time)	Meets the requirement	Yes
g)	Swinging drawbar	Evaluative	Should meet the requirement of	Not provided	Not appli

T-1515/2042/2021	ESCORTS LIMITED, FARMTRAC 6050 TRACTOR - COMMERCIAL- (FIRST BATCH TEST)
	THIS TEST REPORT IS VALID UPTO : 28/02/2026

	(wherever fitted)		IS: 12362 (Part 3) (As amended from time to time)			cable			
h)	1)	Maximum travelling speed at rated engine speed in reverse gears, Kmph	Evaluative	Should not exceed 20 Kmph		10.86 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 provided	Not applicable		
1	2	3	4	5	6	7			
14.1.11	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: 5px auto; border-collapse: collapse;"> <tr> <td style="width: 40px; text-align: center;">MM</td> <td style="width: 40px; text-align: center;">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	ESCORTS LIMITED		Yes
MM	YY								
	2)	Model	Evaluative		FARMTRAC 6050		Yes		
	3)	Month & Year of manufacture	Evaluative		02	20	Yes		
	4)	Engine number	Evaluative		E2499801		Yes		
	5)	Chassis number	Evaluative		T052496837LJ		Yes		
	6)	Maximum PTO power, (kW)	Evaluative		32.3		Yes		
	7)	Specific fuel consumption, (g/kWh)	Evaluative	260		Yes			
14.1.12	Discard limit for:								
(a)	Cylinder bore diameter, (mm)		Evaluative	To be specified by the manufacturer and supported by the printed literature	112.32 (D)	111.775 to 111.792	Yes		
(b)	Clearance between piston & cylinder liner at skirt, (mm)		Non-Evaluative		0.55 (D)	0.176 to 0.193	Yes		
(c)	Piston diameter at skirt, mm		Non-Evaluative		When ring & groove clearance exceed discard limit	111.596 to 111.615	Yes		
(d)	Ring end gap (mm):								
	-	Top comp. ring.	Evaluative	-do-	2.00 (D)	0.40	Yes		
	-	2 nd comp. ring.		-do-	2.00 (D)	0.50	Yes		
	-	Oil ring.		-do-	2.00 (D)	0.45	Yes		
(e)	Ring groove clearance (mm):								
	-	Top comp. ring.	Evaluative	-do-	0.20 (D)	0.132 to 0.135	Yes		
	-	2 nd comp. ring.		-do-	0.20 (D)	0.116 to 0.130	Yes		
	-	Oil ring.		-do-	0.30 (D)	0.080 to 0.095	Yes		
(f)	Clearance of main bearings (mm):								
	-	Diametrical clearance	Evaluative	-do-	0.50 (D)	0.139 to 0.146	Yes		
	-	Crankshaft end float	Evaluative		0.80 (D)	0.30	Yes		

T-1515/2042/2021	ESCORTS LIMITED, FARMTRAC 6050 TRACTOR - COMMERCIAL- (FIRST BATCH TEST)
	THIS TEST REPORT IS VALID UPTO : 28/02/2026

(g)	Clearance of big end bearings, (mm):						
	-	Diametrical	Evaluative	-do-	0.80 (D)	0.096 to 0.163	Yes
	-	Axial	Evaluative	-do-	0.90 (D)	0.35	Yes
(h)	Clearance between king pin and bush, (mm)	Non-Evaluative	-do-	0.45 (D)	0.165 to 0.263	Yes	
(i)	Clearance between centre pin and bush, (mm)	Non-Evaluative	-do-	0.45 (D)	0.100 to 0.126	Yes	
14.1.13	Literature (Submission to test agency)						
(a)	Operator manual	Evaluative	Provided / Not Provided	Provided	Provided	Yes	
(b)	Parts Catalogue	Evaluative		Provided	Provided	Yes	
(c)	Workshop/ Service manual	Evaluative		Provided	Provided	Yes	

1	2	3	4	5	6	7
14.1.14	Fitment of Roll Over Protective Structures (ROPS):					
	For tractor having more than 1150 mm rear track width	Evaluative	ROPS should meet the requirement of IS:1182 or OECD code or equivalent International Standard	Not fitted	Not applicable	
14.1.15	Standard Accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor	Provided	Yes	
14.1.16	Accessories (optional)	Non Evaluative	Ballast weight, if fitted, should meet the requirement of CMVR	Provided	Yes	

14.2 CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2019):					
Sl. No.	Category of breakdowns	Category (Evaluative / Non-Evaluative)	Requirements as per IS: 12207-2019	As observed	Whether meets the Requirements (Yes/No.)
1.	Critical	Evaluative	No critical breakdown	None	Yes
2.	Major	Evaluative	Not more than one and neither of them should be repetitive in nature	None	Yes
3.	Minor	Evaluative	Not more than three 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 four, that is, (1 major + 3 minor) or 4 minor breakdowns.	None	Yes

14.3 Salient Observations:

14.3.1 Laboratory tests:

14.3.1.1 PTO Performance Test:

- i) The maximum power in case of previous & present sample were observed as **32.9** & **31.5 kW** respectively, against the declaration of **32.3 kW**, which meets the requirement of IS: 12207-2019 with regard to tolerance limit.

T-1515/2042/2021	ESCORTS LIMITED, FARMTRAC 6050 TRACTOR - COMMERCIAL- (FIRST BATCH TEST)
	THIS TEST REPORT IS VALID UPTO : 28/02/2026

- ii) The specific fuel consumption corresponding to maximum power in case of previous & present sample was recorded as **259 & 263 g/kWh** against respectively the declaration of **260 g/kWh**, which meets the requirement of IS: 12207-2019 with regard to tolerance limit.
- iii) The maximum equivalent crankshaft torque in case of previous & present sample were recorded as **201.0 & 196.1Nm** against the declaration of **215 Nm**, which meets the requirement of IS: 12207-2019 with regard to tolerance limit.
- iv) The backup torque was observed as **22.6%** and meets the evaluative requirement of IS: **12207-2019**.

14.3.1.2 Drawbar performance test:

- i) Maximum drawbar pull in case of previous & present sample with unballast corresponding to 15 percent wheel slip, (kN) was recorded as **18.31 kN & 17.49 kN** respectively against the minimum requirement of **15.07 kN**, which meets the requirement of IS: 12207-2019 with regard to tolerance limit.
- ii) Maximum drawbar power in case of previous & present sample under unballasted condition was recorded as **30.5 kW & 25.7 kW** respectively against the minimum requirement of **25.2 kW** in case of present sample which meets the minimum requirement of **IS: 12207-2019**.
- iii) The maximum drawbar power in case of present sample under unballasted condition was recorded only **81.6 %** of its maximum PTO power. Whereas it was recorded as **92.7 %** in case of previous sample. This indicates that the drawbar performance of present sample has been deteriorated in compare to previous sample. This should be looked into.
- iv) During ten hours drawbar performance test under ballasted condition, creeping of LHS & RHS rear tyre over the rim were observed as **135 mm & 90 mm**. This should be looked into for necessary corrective action.

14.3.1.3 Hydraulic performance test:

- i) Maximum lifting capacity throughout the range of lift at hitch point and standard frame was recorded as **15.23 kN & 13.27 kN** respectively against the declaration of **14.70 kN & 9.80 kN** respectively, which meets the requirement of **IS: 12207-2019** with regard to tolerance limit.
- ii) The maximum Cumulative drop in height of lift during load maintenance test was observed was **220 mm** which does not meet the limit of **50 mm** of **IS-12207-2019**. This should be looked into for necessary corrective action.

14.3.1.4 Mechanical Vibration:

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

14.3.1.5 Component/assembly inspection:

During the wear assessment test, it was seen that the dry friction clutch plate in batch tractor model whereas earlier ICT tested model the clutch plate is pad type. This should be looked into for necessary corrective action.

14.4 Maintenance / Service Problems:

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


14.5 Recommendation with regard to safety on tractor:

T-1515/2042/2021	ESCORTS LIMITED, FARMTRAC 6050 TRACTOR - COMMERCIAL- (FIRST BATCH TEST)
	THIS TEST REPORT IS VALID UPTO : 28/02/2026

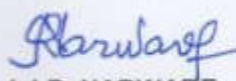
15. Citizen charter

Test duration under citizen charter	Duration of Test	Whether the report released within time frame given in the citizen charter	Remark
10 Months	07 Months (July, 2020 to January, 2021)	Yes	None

TESTING AUTHORITY:


C.S. RAGHUWANSHI
AGRICULTURAL ENGINEER


C.V. CHIMOTE
TEST ENGINEER


J.J.R. NARWARE
DIRECTOR

The report compiled by: Sh. Shivkumar Sharma, Senior Technical Assistant.

16.0 APPLICANT COMMENT'S

Para No.	Our Reference	Applicant's comments
16.1	14.3.1.2 (iii) & (iv), 14.3.1.3 (ii) & 14.3.1.5	These being studied & corrective action would be taken in near future.
16.2	14.1.10 (e), 14.3.14 & 14.5	Your valuable comments & 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

T-1515/2042/2021	ESCORTS LIMITED, FARMTRAC 6050 TRACTOR - COMMERCIAL- (FIRST BATCH TEST)
	THIS TEST REPORT IS VALID UPTO : 28/02/2026

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Para No.	Our Reference	Applicant's comments
16.1	14.3.1.2 (iii) & (iv), 14.3.1.3 (ii) & 14.3.1.5	These being studied & corrective action would be taken in near future.
16.2	14.1.10 (e), 14.3.14 & 14.5	Your valuable comments & 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 (Engine & transmission)	50.0
2.	PTO performance test	11.5
3.	Drawbar performance test	15.5
4.	Power lift and hydraulic pump performance test	1.0
5.	Brake test	0.8
6.	Noise measurement	1.5
7.	Mechanical vibration test	1.0
8.	Theoretical speed test	1.6
B.	Haulage Test	5.1
C.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	8.1
	TOTAL:	96.1