

व्यावसायिक परीक्षण रिपोर्ट (प्रथम बैच परीक्षण)

संख्या/No. : T-1687/2218/2022

COMMERCIAL TEST REPORT (First Batch Test)

माह/Month : November, 2022

[Application Reference No. 28/2021-22/93]

(यह परीक्षण रिपोर्ट 30/11/2029 तक वैध है/ THIS TEST REPORT IS VALID UPTO 30/11/2029)



**ESCORTS LIMITED, 6055 F4
(BRAND NAME: FARMTRAC) TRACTOR**



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

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3. SPECIFICATIONS

- 3.1 Tractor:**
- Make : ESCORTS LIMITED
 Model : 6055 F4
 Brand Name : FARMTRAC
 Type : Rear Wheel Drive, Standard Agricultural Tractor.
 Month & year of manufacture : 11/21
 Chassis number : T052578166KL
 Country of origin : India
- 3.2 Engine:**
- Manufacturer's address : M/s. Escorts Kubota Limited,
 Plot No. 2 & 3, Sector – 13
 Faridabad – 121 007, Haryana
- Make : ESCORTS LIMITED
 Model : AE4.368B.3A
 Type : Four stroke, naturally aspirated, liquid cooled, direct injection, diesel engine.
 Serial number : E2571371
 Country of origin : India
- 3.2.1 Engine speed (rpm), (Manufacturer's recommended production settings):**
- Maximum speed at no load : 2050 to 2150
 - Low idle speed : 600 to 700
 - Speed at maximum torque : 900 to 1100
- Rated speed, (rpm):**
- For PTO use : 1850
 - For drawbar use : 1850
- 3.3 Cylinder & Cylinder Head:**
- Number : Four
 Disposition : Vertical, inline
 Bore/stroke, (mm) : 98/122
 Capacity as specified by the applicant, (cc) : 3682 (apa)
 Compression ratio : 17.5 (± 5%) : 1
 Type of cylinder head : Monoblock
 Type of cylinder liners : Wet, replaceable
 Type of combustion chamber : Direct injection, open chamber in piston crown
 Arrangement of valves : Over head, Inline
- Valve clearance (cold):**
- Inlet valve, (mm) : 0.3
 - Exhaust valve, (mm) : 0.4
- 3.4 Fuel System:**
- Type of fuel feed system : Gravity and force feed
- 3.4.1 Fuel tank:**
- Capacity, (l) : 58.2
 Location : Above clutch housing
 Provision for draining of sediments/ water : Provided
 Material of fuel tank : Metallic

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17. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

17.1 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:

S. 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 require- ments (Yes/No)
1	2	3	4	5	6	7
17.1.1	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.	34.3 (D)	33.1	Yes
b)	Power at rated engine speed, (kW)	Non-Evaluative	-do-	34.3 (D)	32.9	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+ 10% max.	250 (D)	264	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non-Evaluative	$\pm 8\%$	230 (D)	236.7	Yes
e)	Back-up torque, percent	Evaluative	12 percent	12 (R) 12.0 (R)	39.3	Yes
f)	Maximum operating temperature, ($^{\circ}\text{C}$)					
	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.	125	106	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	108	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. Power under High ambient conditions.	2.66 Maximum (R)	0.135	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 Maximum (R)	0.09	Yes

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1	2	3	4	5	6	7
17.1.2	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	20.73(D) 20.73 Min. (R)	25.10	Yes
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	15.79(D) 15.50(R) Minimum	18.18	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.	27.46(D) 26.5(R) Minimum	28.3	Yes
d)	Maximum transmission oil temperature, (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	125 (D)	102	Yes
17.1.3	Power lift and hydraulic pump performance:					
a)	Maximum lifting capacity throughout the range of lift, (kN):					
	1) At hitch points	Evaluative	Tolerance of ± 10%	13.7 (D)	12.70	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) 7.15 (R) Minimum	10.77	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	30	Yes
17.1.4	Brake performance at 25 kmph:					
a)	Maximum stopping distance at a force, equal to or less than 600 N on brake pedal with Unballasted tractor, (m):					
	1) Cold brake	Evaluative	10	10 (R)	6.93	Yes
	2) Hot brake	Evaluative	10	10 (R)	7.22	Yes
b)	Maximum force exerted on the brake pedal to achieve a deceleration of 2.5 m/s ² (N)	Evaluative	600	600 (R) Max	233 to 272	Yes
c)	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

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1	2	3	4	5	6	7
17.1.5	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)	93	Yes
17.1.6	Amplitude of mechanical vibrations at:					
	1) Left foot rest	Non-Evaluative	100 microns (max.)	100(R)	188	No
	2) Right foot rest				165	No
	3) Seat (with driver seated)				88	Yes
	4) Steering wheel				185	No
17.1.7	Air cleaner:					
	Maximum air cleaner oil pull over, (%)	Evaluative	0.25 (Max.)	Dry type air cleaner is fitted	Not applicable	
17.1.8	Haulage requirements :					
a)	Gross mass of the trailers, (tones):					
	Two wheel	Non-Evaluative	As specified by the manufacturer	5.0 (D)	5.0	Yes
	Four wheel			6.0(D)	6.0	Yes
b)	Distance travelled / liter of fuel consumption, (km/l):					
	Two wheel	Non-Evaluative	As specified by the manufacturer	8 to 9 (D)	5.04 to 5.11	No
	Four wheel			8 to 9 (D)	4.92 to 4.98	No
c)	Fuel consumption, (ml/km/tonne):					
	Two wheel	Non - Evaluative	As specified by the manufacturer	30 to 35 (D)	39.17 to 39.65	No
	Four wheel			30 to 35 (D)	33.45 to 33.85	No
17.1.9	Wetland cultivation :					
	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)	The major breakdowns were not observed in the field test during initial commercial testing of this tractor model having test report No. T-1208/1735/2019 released in January 2019. So, as per the provision as laid down in clause 7.2 of IS: 12207-2019, the field test during the batch testing of this tractor model was not conducted.	Yes
	1) Clutch assembly	-do-				
	2) Brake housings	-do-				
	3) Front axle hubs	-do-				
	4) Engine Oil	-do-				
	5) Transmission Oil	-do-				

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1	2	3	4	5	6	7	
17.1.1	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)		Does not meet the requirement	No	
d)	Technical requirements for PTO shaft	Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)		Does not meet the requirement	No	
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 drawbar	Evaluative	Should meet the requirements of IS: 12953 (As amended from time to time)		Meets the requirement	Yes	
g)	Swinging drawbar (wherever fitted)	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		10.06 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	
17.1.11	Labeling of tractors (Provision of labeling 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. MM YY 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.		ESCORTS LIMITED	Yes	
	2) Model	Evaluative				6055 F4 (Brand Name-Farmtrac)	Yes
	3) Month & Year of manufacture	Evaluative				01/22	Yes
	4) Engine number	Evaluative				E2571371	Yes
	5) Chassis number	Evaluative				T052578166KL	Yes
	6) Maximum PTO power, (kW)	Evaluative				34.33	Yes
	7) Specific fuel consumption, g/kWh	Evaluative				250	Yes

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1	2	3	4	5	6	7
17.1.12	Discard limit for:					
(a)	Cylinder bore diameter, (mm)	Evaluative	To be specified by the manufacturer and supported by the printed literature	98.30	98.020 to 98.058	Yes
(b)	Clearance between piston & cylinder liner at skirt, (mm)	Non Evaluative		0.45	0.159 to 0.176	Yes
(c)	Piston diameter at skirt, (mm)	Non Evaluative		97.656	97.879 to 97.884	Yes
(d)	Ring end gap, (mm):					
	- Top comp. ring.	Evaluative	To be specified by the manufacturer and supported by the printed literature	2.0	0.40 to 0.50	Yes
	- 2 nd comp. ring.			2.0	0.90	Yes
	- Oil ring.			2.0	0.50 to 0.55	Yes
(e)	Ring groove clearance, (mm):					
	- Top comp. ring.	Evaluative	To be specified by the manufacturer and supported by the printed literature	0.35	Tapered	--
	- 2 nd comp. ring.			0.20	0.063 to 0.067	Yes
	- Oil ring.			0.15	0.028 to 0.032	Yes
(f)	Clearance of main bearings, (mm):					
	- Diametrical clearance	Evaluative	To be specified by the manufacturer and supported by the printed literature	0.40	0.066 to 0.096	Yes
	- Crankshaft end float	Evaluative		0.67	0.22	Yes
(g)	Clearance of big end bearings, (mm):					
	- Diametrical	Evaluative	-do-	0.40	0.040 to 0.071	Yes
	- Axial	Evaluative	-do-	0.60	0.35 to 0.40	Yes
(h)	Clearance between king pin and bush, (mm)	Non Evaluative	-do-	0.50	0.132 to 0.149	Yes
(i)	Clearance between centre pin and bush, (mm)	Non Evaluative	-do-	0.50	0.241 to 0.314	Yes
17.1.13	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
17.1.14	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
17.1.15	Standard Accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor		Provided	Yes
17.1.16	Accessories (optional)	Non Evaluative	Ballast weight, if fitted, should meet the requirement of CMVR		Provided	Yes

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17.2 CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2019):					
S. No.	Category of break-downs	Category (Evaluative / Non-Evaluative)	Requirements as per IS: 12207-2019	As observed	Whether meets the Requirements (Yes/No)
1.	Critical	Evaluative	There is no 'critical breakdown' during the course of testing	None	Yes
2.	Major	Evaluative	There are not more than 1 major breakdowns and neither of them is of repetitive nature	None	Yes
3.	Minor	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

17.3 Salient Observations:

17.3.1 Laboratory tests:

17.3.1.1 PTO performance test:

- i) During the PTO performance test, max power was recorded as **32.3 kW** against the declaration of **34.3 kW** and which does not meet the evaluative requirement of IS:12207-2019 with regard to tolerance limit.

Upon this, the applicant vide letter No. ERC/Budni/6055 F4/B-164/21_01 dated 24.03.2022, has requested for following checking / adjustment / replacement, which was allowed.

- Fuel supply line was checked and cleaned.
- Fuel filter was replaced with new one of same specifications.
- Air cleaner filter element checked and cleaned.
- Fuel injectors pressure were checked and adjusted as specified by applicant.

Injector No.	Before Observed pressure (kg/cm ²)	Adjust as per service manual (kg/cm ²)
1	230 to 240	258
2	230 to 240	258
3	230 to 240	258
4	230 to 240	258

- v) Tappet valve clearance of intake & exhaust valve was checked & measured. The valve clearance was set as specified by the applicant.

Cylinder No.	Observed clearance (mm)		Adjusted clearance (mm)	
	Intake	Exhaust	Intake	Exhaust
1	0.35	0.50	0.30	0.40
2	0.35	0.45	0.30	0.40
3	0.35	0.40	0.30	0.40
4	0.35	0.45	0.30	0.40

- ii) Thereafter, the PTO performance test (**1st repeat test**), maximum PTO power was observed as **32.2 kW** against the declaration of **34.3 kW** and which does not meet the evaluative requirement of IS:12207-2019 with regard to tolerance limit.
- iii) Thereafter, the applicant has submitted letter No. ERC/BUDNI/6055 F4/B-164/21_2 dated 31.05.2022 & requested to conduct "repeat" PTO performance test by connecting the fuel line to the water separator. As this happens to be the first case of its kind that manufacturer has requested for water separator in fuel line against the standard practice of connecting the fuel line in feed pump, the request of the manufacturer has been allowed from study point of view so that the same may be discussed in the larger platform of BIS.

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- iv) Thereafter, power take-off performance conducted under natural and high ambient condition as per the condition stated in 5.3 above on dated: 26.07.2022 & 27.07/2022. The results of Power take-off performance are tabulated in **Table-3**.

17.3.1.2 Drawbar Performance Test:

- i) During the drawbar performance test under ballasted condition, the LHS & RHS rear tube got puncture due to excessive creeping of tyre over the rim. So, the LHS & RHS rear wheel tube were replaced with new ones.
- ii) After completion of 10-hour drawbar test, creeping of LHS and RHS rear tyre over the rims was observed as 35 and 85 mm respectively, which was considered on higher side. This should be looked into for necessary corrective action.

17.3.1.3 Mechanical Vibration:

The amplitude of mechanical vibration on various assemblies marked as (*) in Chapter – 10 of this test report is on higher side. This calls for dampening down of vibrations especially on LHS and RHS foot rest & operator’s seat to improve the operational comfort and service life of components.

The above observations were also made in the previous Test Report No. T-1208/1735/2019 and no improvement have been made as regards to its conformity so far.

17.3.1.4 Power take -off shaft:

In addition to clockwise rotation of PTO shaft, anticlockwise rotation has also been provided in contrast of “clockwise rotation” recommended in Clause No.4 of IS: 4931-1995. The provision of anticlockwise rotation has the potential of rendering the tractor not conforming to IS: 4931- 1995. In this case, it may lead to non-inclusion of tractor in the subsidy list. This should be looked into for necessary corrective action.

In response thereto, the applicant vide letter No. 28/2021-22/93_01, dated 29.11.2022 has submitted that “we have decided to eliminate the option for reverse PTO by deleting “arm PTO shifter (Part no. D10369490 A)” and addition modifying “arm PTO shifter SPTO (Part no. D12243060 AA) to meet the recommendation made in clause-4 of IS:4931-1995 regarding direction of rotation. Thus, the detail of multispeed PTO in clause 3.14 of the test report will also be eliminated”, which was allowed. Thereby there would be only one direction of rotation i.e. clockwise & and which conforms to IS: 4931-1995. Thus, tractor now became IS: 4931-1995 conformant.

17.3.1.5 Haulage performance test:

- i) During haulage test, distance travelled / liter of fuel consumption was observed as 5.04 to 5.11 km/l with two-wheel trailer & 4.92 to 4.98 km/l with four-wheel trailer respectively against the declaration of 8.0 to 9.0 km/l. This should be looked into for necessary corrective action.
- ii) The fuel consumption (ml/km/tonne) in two wheel & four wheel trailer was recorded as 39.17 to 39.65 (ml/km/tonne) & 33.45 to 33.85 (ml/km/tonne) respectively against the declaration of 30.0 to 35.0 (ml/km/tonne) which does not meet the non-evaluative requirement of IS : 12207-2019 with regard to tolerance. This should be looked into for necessary corrective action.

17.3.1.6 The size of the drive wheel (14.9-28) rims was observed as “W12x28”.

Rule 95 A (2) of CMVR, 1989 read in conjunction with IS: 13154-2015 provides for “The Agricultural Tractor manufacturer shall select ONLY THAT RIM SIZE AS RECOMMENDED BY THE TYRE MANUFACTURER”. In this case, the rim size RECOMMENDED by ITTAC manual for **14.9-28** tyre size is “**W13**”. An immediate corrective action is required to be taken even in stand point of view with compliance to CMVR, 1989.

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17.4 Maintenance / Service Problems:

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

17.5 Recommendation with regard to safety on tractor:

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

- i) Longitudinal distance from seat index point to the centre of brake pedal has been measured as 390 mm, against the requirement of 410 to 720 mm as per the requirement of IS: 12343-2021.
- ii) Vertical distance from seat index point to the centre of brake pedal has been measured as 520 mm, against the requirement of 230 to 460 mm & centre of steering control wheel has been measured as 210 mm, against the requirement of 265 to 385 mm as per the requirement of IS: 12343-2021.
- iii) Vertical distance from seat index point from foot rest has been measured as 610 mm, against the requirement of 450 to 520 mm as per the requirement of IS: 12343-2021.
- iv) Master shield of PTO shaft has not be provided as per the requirement of IS: 4931-1995.
- v) Vertical retainers at both sides of clutch and brake pedal should be provided as per IS: 12239 (Part-1) – 2018.
- vi) The working clearance between position control lever of hydraulic system and RHS mudguard was measured as 50 mm between position and draft control lever of hydraulic system was measured as 40 mm & between range selector gear lever and operator's seat was measured as 10 mm, against the minimum requirement 70 mm as per requirement of IS: 12239 (Part-2)-1999 (Re-affirmed in January, 2019).
- vii) Spark arrester should be provided in the exhaust system as per the requirement of IS: 12239 (Part-2)-1999 (Re-affirmed in January, 2019).
- viii) In water temperature gauge, amber zone has not been provided as per the requirement of IS:6283 (Part 1 & 2)-1998.

All of the above should be looked into for necessary corrective action.

17.6 Adequacy of Literature supplied with machine:

17.6.1 The following literatures were supplied with the test tractor for reference during the test:-

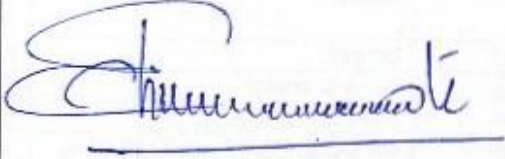
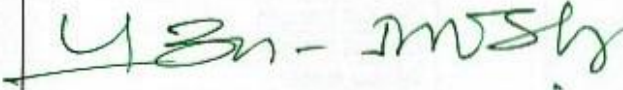
- a) Operator Manual for "Escorts Ltd., 6055 F4 (Brand Name: Farmtrac)" tractor model.
- b) Parts catalogue for "Escorts Ltd., 6055 F4 (Brand Name: Farmtrac)" tractor model.
- c) Service manual for "Escorts Ltd., 6055 F4 (Brand Name: Farmtrac)" tractor model.

17.6.2 The operator manual may be brought out for the guidance of users and service personnel as per IS:8132-1999, incorporating, inter alia, the following:

- i) Safe hitch height while using trailer.
- ii) Specification of recommended matching trailer for haulage operation.
- iii) Recommended tyre inflation pressure of front tyres.

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TESTING AUTHORITY:

C.V. CHIMOTE TEST ENGINEER	
P. K. PANDEY DIRECTOR	

Draft test report is compiled by: Sh. Pratyush Satya (S.T.A) & Sh. C.S Raghuwanshi, Agricultural Engineer.

18. APPLICANT'S COMMENTS

Para No.	Our Reference	Applicant's comments
18.1	17.3.1.4	We have decided to eliminate the option for reverse PTO by deleting "arm PTO shifter (Part no. D10369490 A)" and addition modifying "arm PTO shifter SPTO (Part no. D12243060 AA)" to meet the recommendation made in clause-4 of IS:4931-1995 regarding direction of rotation. Thus, the detail of multispeed PTO in clause 3.14 of the test report will also be eliminated.
18.2	17.3.1.6	Your comment for fitment of recommended rim size according to IS:13154-2015/ITTAC manual is well taken. We will take necessary actions in our design to eliminate this gap.

T-1687/2218/2022	ESCORTS LIMITED, 6055 F4 (Brand Name: FARMTRAC) TRACTOR - COMMERCIAL- (First Batch Test)
	THIS TEST REPORT IS VALID UPTO: 30/11/2029

ANNEXURE-I

BRIEF SPECIFICATION OF TRAILER DECLARED AS MATCHING TRAILER BY APPLICANT

SI No.	Item	Single axle trailer	Double axle trailer
1.	Make	Kisan Engineering Works, MIDC, Awadhan Dhule, (M.S.)	
2.	Model	Kisan 1062	Not available
3.	Type of trailer	Semi - Trailer	Semi – Trailer
4.	Number of axle(s)	Single	Double
5.	Un laden Weight of Trailer, kg	1670	2800
6.	Fully laden Weight of Trailer, (kg)	4000	5500
7.	Overall dimensions of Trailer, (mm):		
	Overall Width	1870	2140
	Overall Length	4180	5785
	Overall Height	2175	2110
	Wheel Base	Not applicable	2835
	Wheel Track	1600	1740 (Front) &1765 (Rear)
8.	Dimension of fitted Platform, (mm):		
	Length	3040	4225
	Width	1830	2135
	Height from ground	1190	1305
9.	Brakes of Trailer	Not Provided	Not Provided

ANNEXURE-II

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	50.0
2.	PTO performance test	40.4
3.	Power lift and hydraulic pump performance test	3.7
4.	Drawbar performance test	28.2
5.	Brake test	1.0
6.	Noise measurement	1.8
7.	Mechanical vibration test	1.0
8.	Nominal speed test	1.3
B.	HAULAGE TEST:	5.3
C.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	5.5
TOTAL:		137.2