व्यावसायिक परीक्षण रिपोर्ट (प्रथम बैच) COMMERCIAL TEST REPORT (1<sup>st</sup> Batch) संख्या/No. : T- 1626/2157/2022

माह/Month : February, 2022

# [ONLINE TESTING]

(यह परीक्षण रिपोर्ट 28/02/2027 तक वैध है/THIS TEST REPORT IS VALID UPTO 28/02/2027)



# ESCORTS LIMITED, 425 N E1 (BRAND NAME: POWERTRAC) TRACTOR



कृषि एवं किसान कल्याण मंत्रालय (कृषि, सहकारिता एवं किसान कल्याण विभाग)

# **GOVERNMENT OF INDIA**

MINISTRY OF AGRICULTURE AND FARMERS WELFARE

(DEPARTMENT OF AGRICULTURE, CO-OPERATION AND FARMERS

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 49

				TS LIMITED, 425 N E1				
T- 162	6/2157/2022		POWERTRAC) – Commercial (1 <sup>st</sup> Batch) EPORT IS VALID UPTO: 28/02/2027					
				(113 VALID 01 10. 20/02/2021				
	<b>-</b> .	3. SPECIFIC	CAT	TIONS				
3.1	<b>Tractor:</b> Make Model Type			Escorts Limited 425 N E1 Rear Wheel Drive, Standard Agricultural Tractor.				
	Month & Yea Chassis num Country of O		::	07/21 T053561166DK India				
3.2	Engine: Manufacturer	's address	:	M/s. Escorts Limited, Plot No. 2 & 3, Sector – 13, Faridabad <i>–</i> 121 007, Haryana				
	Make			Escorts Limited				
	Model Type			E2.156-3A Four stroke, naturally aspirated, liquid				
	Serial numbe	r	:	cooled, direct injection, diesel engine. E3629577				
				ded production setting, (rpm) :				
	<ul> <li>Maximum s</li> <li>Low idle specific</li> </ul>	peed at no load,(rpm)		2225 to 2325 600 to 700				
		aximum torque, (rpm)		1200 to 1300				
	Rated speed		-					
	- For PTO us	e	:	2000				
• •	- For drawba		:	2000				
3.3	Number	Sylinder Head:		Two				
	Disposition		:	Vertical, inline				
	Bore/stroke,	(mm)		95/110 (apa)				
		specified by the applicant,	:					
	Compression		:	18.0 ± 5% : 1				
	Type of cyline		:	Monoblock				
	Type of cyline	bustion chamber	÷	Wet, replaceable Open chamber in piston crown.				
	Arrangement Valve cleara	of valves	:	Overhead, Inline				
	- Inlet valve,		:	0.30				
	- Exhaust val	ve, (mm)	:	0.40				
3.4	Fuel System Type of fuel s		:	Gravity and force feed				
3.4.1	Fuel tank:							
	Capacity, (I)		:	45.0				
	Location		:	Above clutch housing				
	/water	draining of sediments	:	Not provided				
	Type of fuel t	ank	:	Metallic				
3.4.2	Water separ	ator:						
	Make		:	DEC				
	Type Location		÷	Inverted funnel, gravity separation On RHS of engine, in between fuel tank &				
	LUCATION		•	fuel feed pump.				
	Capacity (I)		:	0.50				
	,							

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE - BUDNI

Page 6 of 49

	ESCORTS LIMITED, 425 N E1
T 1626/2157/2022	(BRAND NAME: POWERTRAC) – Commercial (1 <sup>st</sup> Batch)
1- 1020/2137/2022	THIS TEST REPORT IS VALID UPTO: 28/02/2027
T- 1626/2157/2022	

#### 16. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

**16.1** 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.	Character	ristic	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
16.1.1	PTO Perf	ormano	ce:				
a)	Maximum under 2 (kW) (Natural au condition)	h test,	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.	17.0 (D)	17.1	Yes
b)	engine (kW)	rated speed,	Non Evaluative	-do-	17.0 (D)	17.0	Yes
c)	Specific consumptic correspond maximum (g/kWh)	ling to	Evaluative	+ 10% max.	234 (D)	235	Yes
d)	Maximum equivalent crankshaft torque, (Nm)		Non Evaluative	± 8%	96.4 (D)	96.4	Yes
e)	Back-up t percent	•	Evaluative	12 %, min.	12 %, (R) minimum	18.6	Yes
f)	Maximum	operati	ng temperatu	ire, ( <sup>o</sup> C)			
	43	ine 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 (D)	90	Yes
	2) Coola	ant	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)	83	Yes
g)	Engine consumptio (g/kWh)		Evaluative	Not exceeding 1% of SFC at max. power under High ambient conditions	2.35 (R) maximum 2.30 (D)	0.32	Yes
h)	Smoke leve	el, (m <sup>-1</sup> )	Evaluative	Maximum light absorption coefficient of 3.25 per meter or equivalent BOSCH No. 5.2 or 75 Hatridge value ( <b>As</b> <b>per CMVR</b> )	3.25 per meter max.	0.08	Yes

# ESCORTS LIMITED, 425 N E1 (BRAND NAME: POWERTRAC) – Commercial (1<sup>st</sup> Batch) THIS TEST REPORT IS VALID UPTO: 28/02/2027

1	2	3	4	5	6	7
16.1.2	_ Drawbar perfor	-	-	0	Ŭ	•
a)	Max. drawbar					
a)	pull with ballast	Non	Minimum 70% of			
	corresponding to		static mass with	Not	Not	
	15 percent wheel		ballast	applicable	applicable	
	slip, (kN)					
b)	Maximum					
-	drawbar pull	Evaluative	Minimum 70% of			
	without ballast		static mass of tractor	10.95 (D)	12.63	Ň
	corresponding to		without ballast	11.19 (R)	12.00	Yes
	15 percent wheel			minimum		
	slip, (kN)		Minimum 80 % of PTO power			
c)	Maximum	Evaluative	as referred in SI No. i) a) of			
	drawbar power without ballast,		PTO performance in case of			
	(kW).		tractors having total static mass > 1500 kg Minimum 75	13.9 (D)		
	(KVV).		% of PTO power as referred in	13.7 (R)	15.5	Yes
			SI No. i) a) of PTO performance in case of light	minimum		
			weight tractors having 1500			
			kg total static mass of tractor Minimum 75 % of the engine			
			power as referred in SI No. i)			
			<ul> <li>a) of engine performance in case of tractors which do not</li> </ul>			
			have a PTO shaft.			
d)	Max.	Evaluative	The declared value			
-	transmission oil		should not exceed the maximum value specified	125 (D)	64	Yes
	temperature, (°C)		by oil company			
16.1.3	Power lift and l	nydraulic pur	p performance :			
a)			ghout the range of lift, (	kN):		
,	1) At hitch	Evaluative	±10%	14.00 (D)	14.83	Yes
	points			~ /		
	2) With the	Evaluative	The lift capacity should at			
	standard		least be 24 kg/PTO kW.	7 94 (D)		
	frame		and it should be 21.5	7.84 (D)	8.82	Yes
	linamo		kg/engine kW where the tractor is not provided	4.02 (R)		
			with a PTO shaft	minimum		
b)	Maximum drop					
,	in the height of					
	the point of			50 (D)		
	application of			50 (D)	22	Yes
	the force after		Observed value	50		
	each 5 minutes		should not exceed	maximum		
	interval for a		50 mm.			
	total duration of					
	30 minute,					
40 4 4	(mm)					
16.1.4	Brake performa			- there 000 N	an harles :	
a)			a force, equal to or les	s man 600 N	on brake pe	uai with
	road ballast, (m)					
	1) Cold brake	Evaluative	10	10	6.65	Yes
	2) Hot brake	Evaluative	10	10	7.60	Yes
b)	Maximum force					
	exerted on the	Evaluative	600	600	189 to	Yes
	brake pedal to			maximur	n 241	
	achieve a					
	deceleration of					
	$2.5 \text{ m/s}^2$ (N)					
		I			I	1

**CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE - BUDNI** Page 42 of 49

# ESCORTS LIMITED, 425 N E1 (BRAND NAME: POWERTRAC) – Commercial (1<sup>st</sup> Batch) THIS TEST REPORT IS VALID UPTO: 28/02/2027

1	2	3		4	5	6	7
c)	 Whether	•		-		•	
0,	parking brake	Evaluative		Yes / No	Yes (R)	Yes	Yes
	is effective at a				100 (11)	100	
	force of 600 N						
	at foot pedal(s)						
	or 400 N at						
	hand lever, N						
16.1.5	Noise measuren	nent:			•		
a)	Maximum	Evaluative		IB (A) for >1.5 tonne GVW	88	82	Yes
	ambient noise		and	d 85 db (A) for <1.5 tonne GVW (as per CMVR)	maximum		
	emitted by the						
	tractor, dB(A)						
b)	Maximum noise	Evaluative		96 (as per CMVR)	96	91	Yes
	at operator's				maximum		
	ear level, dB(A)						
16.1.6	Amplitude of me	chanical vit	pratio	ons at :			
	1) Left foot					201	No
	rest						
	2) Right foot					199	No
	rest	Non			100		
	3) Seat (with	Evaluative	1	00 microns (max.)	(max.)	194	No
	driver				(		
	seated)						
	4) Steering					211	No
40.4.7	Wheel						
16.1.7	Air Cleaner:		ii vo	0.050/(max)	Dry type oir	Not	
	Max. oil pull o	ver, Evaluat	live	0.25% (max.)	Dry type air cleaner is	Not	
	(%)				fitted	applic- able	
16.1.8	Haulage require	ments:				able	
a)	Gross mass of th		nes).	,			
u)	Two wheel	Non	· · · · ·	As specified by	2.5 (D)	2.5	Yes
		Evaluat		the manufacturer	2.0 (D)	2.0	100
b)	Distance travelle			consumption, (km/l):			
~)	Two wheel	Non		As specified by	8.0 to 9.0	8.99 to	No
		Evaluat		the manufacturer	(D)	10.35	
c)	Fuel consumption						
,	Two wheel			As specified by	30 to 35 (D)	38.68	No
		Non Evaluat		the manufacturer		to	
		Evaluat	uve			44.49	
16.1.9	Wetland cultivat						
	Sealing for	the Evaluat	tive	The identified		<b>T</b> L -	
	following			assemblies should essentially meet the		The mnaufact-	
	assemblies:			requirement of IS:	There should	urer has	
	1) Clutch assemb	-		11082. No water	be no ingress	recomme	
	2) Brake housing			ingress in the identified assembly given in	of water and/or mud	-nded that the	
	3) Front axle hub			column-2.		tractor is	
	4) Engine oil	-do-		If tractor does not meet		not	
	5) Transmission of	oil -do-		the requirements of wetland cultivation, it		suitable for wet	
				may be recommended		land	
				for dry land operation		cultivation	
	1			only.			

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE - BUDNI	Page 43 of 49
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# ESCORTS LIMITED, 425 N E1 (BRAND NAME: POWERTRAC) – Commercial (1<sup>st</sup> Batch) THIS TEST REPORT IS VALID UPTO: 28/02/2027

1	2	3	4	5	6	7
16.1.10	Safety features :	-		-	_	
a)		Evaluative	Belt drives, pulley, silencer, hydraulic pipes (As per IS 12239 part 2)		Meets the require- ment	Yes
b)	Lighting arrangement	Evaluative	As per CMVR		Meets the require- ment	Yes
c)	Seating requirement (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 require- ment	Yes
d)	Technical requirements for PTO shaft	Evaluative	Should meet the requirements of IS 4931 (as amended from time to time)		Meets the require- ment	Yes
e)	Dimension of three point linkage	Non- Evaluative	Should meet the requirements of IS 4468 (part 1) (as amended from time to time)		Does not meet the require- ment	No
f)	Specification of linkage drawbar	Evaluative	Should meet the requirements of IS 12953 and IS 12362 (part 3) (as amended from time to time)		Meets the require- ment	Yes
g)	Specifications of Swinging drawbar (wherever fitted)	Evaluativ e	Should meet the requirements of IS 12362 (Part 3) (As amended from time to time)		Not fitted	-
h)	<ol> <li>Maximum travelling speed at rated engine speed in reverse gears, (kmph)</li> </ol>	Evaluativ e	Should not exceed 20 Kmph		8.50 (meets the require- ment)	Yes
	2) Audible warning signal on tractor	Evaluativ e	As soon as the travelling speed in reverse gear reaches to 20 kmph, an audible warning signal on tractor shall be activated. Not applicable		Not applicable	
16.1.11	Labelling of tractors				4 . 1	Ma
	1) Make 2) Model	Evaluative Evaluative			ts Limited 5 N E1	Yes Yes
	<ol> <li>Model</li> <li>Month &amp; Year of manufacture</li> </ol>	Evaluative			07/21	Yes
	4) Engine number	Evaluative	numerical		629577	Yes
	5) Chassis number	Evaluative	MM YY		561166DK	Yes
	6) Declaration of maximum PTO power, (kW)	Evaluative	for MM will represent the month and next two digit		17.0	Yes
	7) Specific fuel consumption (g/kWh)	Evaluative	in the box No.2 for YY will represent the year of manufacturing		234	Yes

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE - BUDNI	Page 44 of 49

## ESCORTS LIMITED, 425 N E1 (BRAND NAME: POWERTRAC) – Commercial (1<sup>st</sup> Batch) THIS TEST REPORT IS VALID UPTO: 28/02/2027

1	2	3	4	5		6	7
16.1.12	Discard limit for:	<b>.</b>	r	~	1	•	•
(a)	Cylinder bore diameter, (mm)	Evaluative	To be specified	95.300 (D)	95.0	023 to 95.042	Yes
(b)	Clearance between piston & cylinder liner at skirt, (mm)	-	by the manufacturer	0.46			Yes
(c)	Piston diameter at skirt, (mm)	Non Evaluative		When ring groove clearance exceeds discard limit		94.865 to 94.898	Yes
(d)	Ring end gap (mm):						
	- Top comp. ring		-do-	2.00		0.45	Yes
	- 2 <sup>nd</sup> comp. ring	Evaluative	-do-	2.00		.40 to 0.45	Yes
	- Oil ring		-do-	2.00	0	.30 to 0.35	Yes
(e)	Ring groove clearanc	e (mm):					
	- Top comp. ring		-do-	0.200		apered ring	
	- 2 <sup>nd</sup> comp. ring	Evaluative	-do-	0.200	0.0	062 to 0.064	Yes
	- Oil ring		-do-	0.150		0.062	Yes
(f)	Clearance of main be		1	r			
	<ul> <li>Diametrical clearance</li> </ul>		-do-	0.200	0.0	037 to 0.098	Yes
	- Crankshaft end float		-do-	0.20		0.17	Yes
(g)	Clearance of big end						
	- Diametrical	Evaluative	-do-	0.400			Yes
	- Axial	Evaluative	-do-	0.65	0	.30 to 0.40	Yes
(h)	Clearance between king pin and bush, (mm)	Non Evaluative	-do-	0.50		0.12 to 0.18	Yes
(i)	Clearance between centre pin and bush, (mm)	Non Evaluative	-do-	0.60		0.03 to 0.11	Yes
16.1.13	Literature (Submissio	n to test agen					
(a)	Operator manual	Evaluative	Provided / Not Provided			Provided	Yes
(b)	Parts Catalogue	Evaluative	Provided / Not Provided			Provided	Yes
(c)	Workshop/ Service manual	Evaluative	Provided / Not Provideo	t t		Provided	Yes
16.1.14	Fitment of Roll Over Protective Structure (ROPS): for tractors having more than 1150 mm rear track width	Evaluative	ROPS should meet the requirement of IS:11821 c OECD code or equivaler International Standard	Provided r t		Not fitted	
16.1.15	Standard accessories	Evaluative	Trailer hitch front tov hook, linkage drawbar should be provided with tractor	w e e	ed	Provided	Yes

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE - BUDNI Page 45 of 49

#### ESCORTS LIMITED, 425 N E1 (BRAND NAME: POWERTRAC) – Commercial (1<sup>st</sup> Batch) THIS TEST REPORT IS VALID UPTO: 28/02/2027

1	2	3	4	5	6	7
16.1.16	Accessories (Optional)	Non Evaluative	Ballast weights if fitted should meet the requirement of CMVR.	Provided	Provided	Yes

16.2	CATEGORY OF BR	EAKDOWNS / DE	FECTS:		
S. No.	Category of breakdowns	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207- 2019	As observed	Whether meets the require- ments (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	One (Mn17)	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

#### **16.3** Salient Observations:

## 16.3.1 Laboratory tests:

#### 16.3.1.1 Hydraulic Performance:

During hydraulic test, continuous jerks were observed in the hydraulic system. Upon this, the applicant vide letter no. ERC:BUDNI: 425NE1-B-151/21\_R01 dated 25.11.2021 and 01.12.2021, had requested to replace the following which was allowed:

- i. Removal, cleaning and refitting of "Tube Assembly (Distributor to Cylinder)", Part no. D10285260.9.
- ii. Four numbers of "Seal Benzo Bolt (Distributor to Cylinder Line)" of same specification having Part no. D10174950.9 were replaced during reassembling. Two of them were fitted at the cylinder end and two seals were used at the distributor end of the tube assembly.

This should be looked into for necessary improvement.

#### 16.3.1.2 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 left and right foot rests, steering wheel and 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-1155/1681/2018 (May, 2018) and no improvement have been made as regards to its conformity so far.

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE - BUDNI	Page 46 of 49
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#### 16.3.1.3 Three point linkage:

- i) The lateral distance from lower hitch point to centre line of tractor was observed 364 mm against the requirement of 435 mm, which does not meet the requirement of IS: 4468 -1997 (Part-1). This should be looked into for necessary corrective action.
- ii) The lateral movement of lower hitch point was measured as 78 mm against the requirement of minimum 125 mm as per IS: 4468-1997 (Part-1). This should be looked into for necessary corrective action.
- iii) Power range was observed 550 mm against the minimum requirement of 650 mm, which does not meet the requirement of IS: 4468 (Part-1) 1997 (Reaffirmed in Oct., 2017) for Category II hitch. This should be looked into for necessary corrective action.
- iv) Lower hitch point clearance was observed as 55 mm against the minimum requirement of 100 mm as per IS: 4468 (Part-1), which needs necessary corrective actions.
- v) Some of the parameters conform to Cat. I and some of them conform to Cat. II. Keeping in view the spirit of standardization, necessary improvements may be incorporated.

The observations at (i) and (v) were also made in the previous test report No. T-1155/1681/2018 (May, 2018) and no improvement have been made as regards to its conformity so far.

#### 16.3.1.4 Components/assembly inspection:

- The spring rate of inlet and exhaust valves were observed as 9.90 to 10.10 N/mm and 10.20 to 10.30 N/mm respectively against the discard limit of 12.26 N/mm. This should be looked into for necessary corrective action.
- ii) Discard limit for backlash between crown wheel and pinion of the differential unit was not declared by the applicant. It was only recommended to re-shim to obtain a backlash of 0.40 mm. Hence, a suitable discard limit for backlash between the crown wheel and pinion may also be specified.

#### 16.4 Recommendation with regard to safety on tractor:

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

- i) Provision of safety against the accidental start of engine as per the requirement of IS: 8133-1983 (Reaffirmed in January, 2019)
- ii) Provision for spark arresting device in exhaust system as per the requirement of IS: 12239 (Part-1)-2018.
- iii) Width of footstep as per the requirement of IS: 12239 (Part-1)-2018.
- iv) Vertical retainers as per the requirement of IS: 12239 (Part-1)-2018.
- v) Differential lock should be provided as per the requirement of IS: 12239 (Part-2) 1999 (Reaffirmed in January, 2019).
- vi) The Working clearance around the position control lever and RHS fender should be provided as per IS: 12239 (Part-2) 1999 (Reaffirmed in January, 2019).
- vii) PTO master shield should be provided on tractor as per IS: 4931-1995 (Reaffirmed in January, 2019).
- viii) Provision for transport lock in the hydraulic system to prevent accidental dropping of lifted implements.

Observations at (i), (ii), (iii), (v), (vi) and (vii) were also made in the previous test report vide No. T-1155/1681/2018 (May, 2018) and no improvements have been made as regards to its conformity so far.

#### 16.5 Maintenance / Service Problems:

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

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE - BUDNI	Page 47 of 49
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T- 1626/2157/2022
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### ESCORTS LIMITED, 425 N E1 (BRAND NAME: POWERTRAC) – Commercial (1<sup>st</sup> Batch) THIS TEST REPORT IS VALID UPTO: 28/02/2027

#### 16.6 Haulage test:

- Distance travelled per litre of fuel consumption with two wheel trailer was recorded as 8.99 to 10.35 litres against the declaration of 8.0 to 9.0 litres. This should be looked into for necessary corrective action.
- ii) The fuel consumption with two wheel trailer was recorded as 38.68 to 44.49 ml/km/tonne against the declaration of 30 to 35 ml/km/tonne. This should be looked into for necessary corrective action.
  This observation was also made in the provider test separt. No

This observation was also made in the previous test report No. T-1155/1681/2018 (May, 2018) and no improvement have been made as regards to its conformity so far.

#### 16.7 Adequacy of Literature supplied with machine:

- 16.7.1 The following literature was supplied with test sample for reference during the test.
  - a) Operator's manual for Escorts Limited, 425 N E1 (Brand name: Powertrac) tractor model
  - b) Service manual for Escorts Limited, 425 N E1 (Brand name: Powertrac) tractor model
  - c) Parts catalogue for Escorts Limited, 425 N E1 (Brand name: Powertrac) tractor model

#### 16.7.2 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:

- The tractor is not suitable for wetland cultivation (puddling operation).
- "Puddling Care" should be removed from Chapter 10 of Operator's manual, as the tractor is recommended as "Not suitable' for puddling operation.

#### TESTING AUTHORITY:

C.V. CHIMOTE TEST ENGINEER	Aumenumente
P.K. PANDEY DIRECTOR	USn-mosy

Draft Test Report compiled by: Partha Lodh, Senior Technical Assistant

## 17. APPLICANT'S COMMENTS

Para no.	Our reference	Applicant comments
17.1		We had observed no discrepancies in Test Report.

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE - BUDNI	Page 48 of 49
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## ESCORTS LIMITED, 425 N E1 (BRAND NAME: POWERTRAC) – Commercial (1<sup>st</sup> Batch) THIS TEST REPORT IS VALID UPTO: 28/02/2027

## <u>ANNEXURE – I</u>

## TRACTOR RUN HOURS DURING TEST

Α.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	52
2.	PTO performance test	12.6
3.	Power lift and hydraulic pump performance test	2.0
4.	Drawbar performance test	14.4
5.	Brake test	1.8
6.	Noise measurement	1.5
7.	Mechanical vibration test	1.0
8.	Nominal speed test	0.8
В.	HAULAGE TEST:	5.8
C.	Miscellaneous test and other run hours including idle	4.8
	run, transportation, trials and preparation for test	
	TOTAL:	96.7

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE - BUDNI P	Page 49 of 49
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