

[ONLINE TESTING]

यह परीक्षण रिपोर्ट 30/06/2025 तक वैध है/ THIS TEST REPORT IS VALID UPTO 30/06/2025)



**ESCORTS LIMITED, 434 E7
(BRAND NAME- POWERTRAC) 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

ट्रैक्टर नगर, बुदनी (म.प्र.) 466 445

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE

TRACTOR NAGAR, BUDNI (M.P.) 466 445

(An ISO 9001 : 2015 Certified Institute)

T-1654/2185/2022	ESCORTS LIMITED, 434 E7 (BRAND NAME- POWERTRAC) TRACTOR- COMMERCIAL (Initial)
	THIS TEST REPORT IS VALID UPTO: 30/06/2025

Manufacturer : M/s. Escorts Limited,
Plot No. 2 & 3, Sector – 13
FARIDABAD – 121 007, Haryana

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

Selected for test by : The testing authority
Place of running-in : At Testing Institute
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 through online mode.

Details of tractors made available for random selection	
Sr. No.	Chassis serial Number
1	T053567871EK
2	T053567872EK
3	T053567873EK
4	T052567874EK
5	T052567875EK

1. SPECIFICATIONS

1.1 Tractor:
Make : Escorts limited
Model : 434 E7
Brand name, if any : POWERTRAC
Type : Rear wheel drive, Standard agricultural tractor.
Month & year of manufacture : 08/21
Chassis number : T053567875EK
Country of origin : India

1.2 Engine:
Manufacturer's address : M/s. Escorts Limited,
Plot No. 2 & 3, Sector – 13
FARIDABAD – 121 007, Haryana
Make : Escorts Limited
Model : E3.234A.3A
Type : Four stroke, naturally aspirated, liquid cooled, direct injection, diesel engine.
Serial number : E3637114
Country of origin : India

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18. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

18.1 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 requirements (Yes/No)
1	2	3	4	5	6	7
18.1.1	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.	23.3 (D)	24.0	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	23.3 (D)	24.0	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+ 10% max.	255 (D)	245	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	$\pm 8\%$	134 (D)	144.3	Yes
e)	Back-up torque, percent	Evaluative	12 percent	12 (D) 12 (R)	26.0	Yes
f)	Maximum operating temperature, ($^{\circ}$ C):					
	1) Engine oil	Evaluative	The declared value should not exceed the max. value specified by the oil company and the observed value under high ambient condition should not exceed the declaration.	125 (D)	102	Yes
	2) Coolant	Evaluative	The declared value should not exceed the boiling temperature of coolant under the pressurized or otherwise and the observed value under high ambient condition should not exceed the declaration.	118 (D)	99	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. Power under High ambient conditions.	2.47 Maximum (R)	0.57	Yes
h)	Smoke level, m^{-1}	Evaluative	Maximum light absorption coefficient of 3.25 per meter or equivalent BOSCH No. 5.2 or 75 Hatridge value (As per CMVR).	3.25 per meter Maximum (R)	0.08	Yes
18.1.2	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.	15.0 (D) 14.55 Minimum (R)	16.86	Yes

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1	2	3	4	5	6	7	
b)	Max. drawbar pull with standard 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.	12.70 (D)	13.87	Yes	
				12.25 (R) Minimum			
c)	Maximum drawbar power with standard 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.	18.64 (D)	20.1	Yes	
				19.2 (R) Minimum			
d)	Maximum transmission oil temperature, (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	125 (D)	88	Yes	
18.1.3	Power lift and hydraulic pump performance:						
a)	Maximum lifting capacity throughout the range of lift, (kN):						
	1)	At hitch points	Evaluative	Tolerance of ± 10%	14.05 (D)	14.76	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.	10.13 (D) 5.65 (R) Minimum	9.44	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	75	No	
18.1.4	Brake performance at 25 kmph:						
a)	Maximum stopping distance at a force, equal to or less than 600 N on brake pedal with road ballast, (m):						
	1)	Cold brake	Evaluative	10	10 (R)	7.96	Yes
	2)	Hot brake	Evaluative	10	10 (R)	8.09	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	249 to 266	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
18.1.5	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
18.1.6	Amplitude of mechanical vibrations at:					
	1) Left foot rest	Non Evaluative	100 microns (max.)	100 (R)	207	No
	2) Right foot rest				213	No
	3) Seat (with driver seated)				131	No
	4) Steering wheel				196	No
18.1.7	Air cleaner:					
	Maximum air cleaner oil pull over, (%)	Evaluative	0.25 (Max.)	0.25 (Max.)	0.10	Yes
18.1.8	Haulage requirements:					
a)	Gross mass of the trailers, (tonne):					
	Two wheel	Non Evaluative	As specified by the manufacturer	5.0 (D)	5.0	Yes
	Four wheel	Non Evaluative		6.0 (D)	6.0	Yes
b)	Distance travelled / liter of fuel consumption, (km/l):					
	Two wheel	Non Evaluative	As specified by the manufacturer	5.0 to 7.0 (D)	6.47	Yes
	Four wheel	Non Evaluative		5.0 to 7.0 (D)	6.04 to 6.08	Yes
c)	Fuel consumption, (ml/km/tonne):					
	Two wheel	Non Evaluative	As specified by the manufacturer	30 to 37 (D)	30.95	Yes
	Four wheel	Non Evaluative		30 to 37 (D)	27.40 to 27.60	No
18.1.9	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)	No ingress of water and/or mud was observed	Yes
	1) Clutch assembly	-do-				
	2) Brake housings	-do-				
	3) Front axle hubs	-do-				
	4) Engine Oil	-do-				
	5) Transmission Oil	-do-				
18.1.10	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

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1	2		3	4	5	6	7		
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 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, Km/h	Evaluative	Should not exceed 20 Km/h	10.89 (Meets the requirement)		Yes		
	2)	Audible warning signal on tractor	Evaluative	As soon as the travelling speed in reverse gear reaches to 20 km/h, 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		
18.1.11	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 0;"><tr><td>MM</td><td>YY</td></tr></table> Digit 01 – 12 in box No.1 for MM will represent the months and next two digits in box No.2 for YY will represent the year of Manufacturing.	MM	YY	Escorts Limited		Yes
	MM	YY							
	2)	Model	Evaluative		434 E7 (Brand Name - POWERTRAC)		Yes		
	3)	Month & Year of manufacture	Evaluative		08/21		Yes		
	4)	Engine number	Evaluative		E3637114		Yes		
	5)	Chassis number	Evaluative		T053567875EK		Yes		
6)	Maximum PTO power, (kW)	Evaluative	23.3		Yes				

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1	2	3	4	5	6	7
18.1.12	Discard limit for:					
(a)	Cylinder bore diameter, (mm)	Evaluative	To be specified by the manufacturer and supported by the printed literature	95.3	95.017 to 95.055	Yes
(b)	Clearance between piston & cylinder liner at skirt, (mm)	Non Evaluative		0.5	0.123 to 0.168	Yes
(c)	Piston diameter at skirt, (mm)	Non Evaluative		When the ring groove clearance exceeds discard limit	94.887 to 94.899	Yes
d)	Ring end gap (mm):					
	- Top comp. ring.	Evaluative	To be specified by the manufacturer and supported by the printed literature	3.0	0.45 to 0.55	Yes
	- 2 nd comp. ring.			3.0	1.10	Yes
	- Oil ring.			3.0	0.45 to 0.65	Yes
(e)	Ring groove clearance (mm):					
	- Top comp. ring.	Evaluative	To be specified by the manufacturer and supported by the printed literature	0.50	--Tapped--	--
	- 2 nd comp. ring.			0.50	0.063 to 0.073	Yes
	- Oil ring.			0.50	0.040 to 0.044	Yes
(f)	Clearance of main bearings (mm):					
	- Diametrical clearance	Evaluative	To be specified by the manufacturer and supported by the printed literature	0.40	0.068 to 0.106	Yes
	- Crankshaft end float	Evaluative		0.75	0.31	Yes
(g)	Clearance of big end bearings, (mm):					
	- Diametrical	Evaluative	-do-	0.40	0.060 to 0.080	Yes
	- Axial	Evaluative	-do-	0.75	0.35	Yes
(h)	Clearance between king pin and bush, (mm)	Non Evaluative	-do-	0.40	0.063 to 0.257	Yes
(i)	Clearance between centre pin and bush, (mm)	Non Evaluative	-do-	0.40	0.158 to 0.293	Yes
18.1.13	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

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1	2	3	4	5	6	7
18.1.14	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
18.1.15	Standard Accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor	Provided		Yes
18.1.16	Accessories (optional)	Non Evaluative	Ballast weight, if fitted, should meet the requirement of CMVR	Provided		Yes

18.2 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	No critical breakdown	None	Yes
2.	Major	Evaluative	Not more than two and neither of them should be repetitive in nature	None	Yes
3.	Minor	Evaluative	Not more than five and frequency of each should not be more than two.	None	Yes
4.	Total breakdowns	Evaluative	In no case, the total number of breakdowns should exceed five, that is, (2 major + 3 minor) or (1 major + 4 minor) or 5 minor breakdowns.	None	Yes

18.3 Conformity with following IS:

- i) Guide lines for declaration of power and specific fuel consumption and labeling of agricultural tractors (First revision) [IS10273: 1987 (Reaffirmed in January, 2019)] : Conforms
- ii) Agricultural tractors - Rear mounted power take-off - Types 1, 2 and 3 (third revision) [IS:4931-1995 (Reaffirmed in January, 2019)] : Conforms
- iii) Agricultural wheeled tractors - Rear mounted three-point linkage: Part 1 Categories 1, 2, 3 & 4 (fourth revision) [IS 4468(Part-I):1997/ISO 730-1:1994 (Reaffirmed in 2017)] : **Does not conform**
- iv) Drawbar for agricultural tractors – Link type [IS 12953:1990 (Reaffirmed October, 2017)] : Conforms
- v) Agricultural tractors – Operator’s seat technical requirement [IS 12343 –1998 (First revision) (Reaffirmed in January, 2019)] : Conforms
- vi) Guide for safety & comfort of operator of agricultural tractors: Part 1 General requirements (first revision): [IS 12239 (PT-1)-2018 /ISO 4254-1:2018] : **Does not conform**
- vii) Tractors and machinery for agriculture and forestry – Technical means for ensuring safety Part 2: Tractors (first revision) (IS 12239 (PT-2)-1999) (Reaffirmed in January, 2019)] : **Does not conform**
- viii) Guide lines for location and operation of operator controls on agricultural tractors and machinery (first revision) IS: 8133- 1983 (Reaffirmed in January, 2019)] : **Does not conform**
- ix) Tractors and machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays Part 2 Symbols for agricultural tractors and machinery [IS:6283 (Part-1)- 2006 and IS: 6283 (Part-2)- 2007 (Reaffirmed in January, 2019)] : Conforms
- x) Agricultural Tractors and Machinery - Lighting device for travel on public roads (IS: 14683-1999) (Reaffirmed in January, 2019)] : Conforms

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18.4 Salient Observations:

18.4.1 Laboratory tests:

18.4.1.1 Hydraulic performance test:

The maximum Cumulative drop in height of lift during load maintenance test was observed was **75 mm** which does not meet the requirement of maximum **50 mm** as per **IS-12207-2019**. This should be looked into for necessary corrective action.

18.4.1.2 Mechanical Vibration:

The amplitude of mechanical vibration on various assemblies / components marked as (*) in Chapter – 10 of this test report is on higher side. This calls for dampening down of vibrations especially on left foot rest and steering control wheel to improve the operational comfort and service life of components.

18.4.1.3 Operator's work place:

Operator's work place meets the requirements of IS: 12239 (Part-I) 2018, **except the following:**

- i) Vertical retainer has not been provided on inner side of clutch pedal.
 - ii) Width of foot step has been measured as 150 mm against the requirement of 200 mm.
 - iii) Height of footstep from ground level has been measured as 575 mm against the maximum requirement of 550 mm.
 - iv) Spark arresting device has not been provided in the exhaust system.
- Above parameters does not meet the requirement of IS: 12239 (Part-I) 2018. This should be looked into for necessary corrective action at production level.

18.4.1.4 PTO master shield:

PTO master shield has not been provided on tractor. This should be looked into for necessary corrective action.

18.4.1.5 Three point linkage:

The lateral distance from lower hitch point to centre line of tractor was observed 363 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.

18.4.1.6 Wheel Rims:

- i) **The tractor is fitted with rim size of "W11".**
- ii) **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 IS: 13154-2015 and by ITTAC manual is "W12". An immediate corrective action is required to be taken even in stand point of view with compliance to CMVR, 1989.**

18.4.1.7 Specification of Tractor:

The applicant has declared that the coolant water ratio as 97:3 vide specification sheet. Whereas, the same has been recommended as 1:3 vide Operator's Manual. This should be looked into for necessary corrective action.

18.5 Maintenance / Service Problems:

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

18.6 Haulage Test

Specific fuel consumption with four wheel trailer was observed as 27.40 to 27.60 ml/km/ton against the declaration of 30 to 37 ml/km/ton. This should be looked into for corrective action.

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18.7 Recommendation with regard to safety on tractor:

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

- i) The working clearance between position and draft control lever should be provided as per IS: 12239 (Part-2) – 1999.
- ii) The working clearance between position control lever and RHS fender should be provided as per IS: 12239 (Part-2) – 1999.
- iii) Provision of safety against accidental start of engine should be provided as per the requirement of IS: 8133 – 1983.

18.8 Adequacy of Literature supplied with machine:

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

- a) Operator's Manual for Escorts 434 E7 (Brandname: POWERTRAC) and POWERTRAC 439 tractor models.
- b) Part's Catalogue for Escorts 434 E7 (Brandname: POWERTRAC) tractor.
- c) Service Manual for Escorts 434 E7 (Brandname: POWERTRAC) tractor.

18.8.2 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:

- Safe hitch height while using four wheel trailer.

TESTING AUTHORITY:

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

Draft test report compiled by: **Partha Lodh**, Senior Technical Assistant

19. APPLICANT'S COMMENTS

Para No.	Our Reference	Applicant's comments
19.1	18.4.1.6 (i) & (ii)	Your comment for fitment of recommended rim size according to IS: 13154-2015/ITTAC manual is well taken. We will try to take necessary actions in our design to eliminate this gap.
19.2	1.8 & 18.4.1.7	The coolant water ratio is mentioned as 97:3. We request you to please correct the same in specification as 1:3. The same is mentioned in submitted manual.

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ANNEXURE- I

BRIEF SPECIFICATION OF MATCHING IMPLEMENTS AS DECLARED BY APPLICANT

S. No.	Parameters	Disc Plough	Rotavator
1	Make	Field King	Mahindra
2	Type	Mounted	Mounted
3	No. of Discs / Blades	Two	36 in 7 flanges
4	Type of Discs / Blades	Plain concave	Hatchet
5	Size of Discs / Blades, (mm)	625	265 x 85 x 8
6	Spacing of Discs /Flanges, (mm)	560	325
7	Lower hitch point span, (mm)	785	785
8	Mast height, (mm)	520	595
9	Overall Dimensions, (mm):		
	Length	1910	970
	Width	690	1690
	Height	1180	1105
10	Gross Mass, (kg)	295	450
11	Working width (cm)	2 x 30	150

ANNEXURE-II

BRIEF SPECIFICATION OF MATCHING CAGE WHEEL AS DECLARED BY APPLICANT

S. No.	Items	Specification
1	Type	Full cage wheel
2	Outer dia. (mm)	1250
3	Width (mm)	1015
4	No. & Type of Lugs	32, straight lugs made of MS angle section welded to angle iron frame & angular type
5	Size of angle section, (mm)	40 x 40 x 5
6	Length of lug, (mm)	510
7	Spacing of lug, (mm)	230
8	Weight of each cage wheel, (kg)	140

ANNEXURE-III

BRIEF SPECIFICATION OF TRAILER DECLARED AS MATCHING TRAILER BY APPLICANT

S. No.	Item	Trailer	Trailer
1.	Type of trailer	Semi - Trailer	Semi – Trailer
2.	Number of axles	Single	Double
3.	Un laden Weight of Trailer, kg	1670	2800
4.	Fully laden Weight of Trailer, Tons (Kg)	4000	5500
5.	Overall dimensions of Trailer, (mm):		
	Overall Width	1870	2140
	Overall Length	4180	5785
	Overall Height	2175	2110
	Wheel Base	Not applicable	2835
6.	Dimension of fitted Platform, (mm):		
	Length	3040	4225
	Width	1830	2135
	Height from ground	1190	1305
9.	Brakes of Trailer	Not Provided	Not Provided

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ANNEXURE-IV

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	50.0
2.	PTO performance test	11.9
3.	Power lift and hydraulic pump performance test	1.5
4.	Drawbar performance test	16.8
5.	Turning ability	0.3
6.	Location of centre of gravity	0.2
7.	Operator's field of vision	--
8.	Brake test	1.5
9.	Air cleaner oil pull over test	3.5
10.	Noise measurement	1.5
11.	Mechanical vibration test	0.7
12.	Nominal speed test	0.8
B.	FIELD TEST:	
1.	Disc ploughing	11.6
2.	Rotavation	10.8
3.	Puddling (including 5.0 hours water proof test)	15.2
C.	HAULAGE TEST:	4.9
D.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	13.7
TOTAL:		144.9