

(यह परीक्षण रिपोर्ट 31/08/2024 तक मान्य है। / THIS TEST REPORT IS VALID UP TO 31/08/2024)



ESCORTS LIMITED, 22 (BRAND NAME : FARMTRAC) TRACTOR



भारत सरकार

कृषि एवं किराना कल्याण मंत्रालय
(कृषि, सहकारिता एवं किराना 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

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CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE

(An ISO 9001: 2015 Certified Institute)

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T- 1578/2106/2021	ESCORTS LIMITED, 22 (BRAND NAME : FARMTRAC) TRACTOR - Commercial (Initial)
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Manufacturer : **M/s. Escorts Limited**
Plot No 2 & 3,
Sector 13, Faridabad-121007
Haryana

Test requested by (applicant) : The manufacturer
Selected for test by : The applicant
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 applicant for test.
Tractor chassis numbers, out of which, applicant has selected this tractor are:
(i) T052503480CJ (ii) T052503499CJ
(iii) T052503501CJ (iv) T052503521CJ
(v) T052503504CJ.

1. SPECIFICATIONS

- 1.1 Tractor:**
Make : Escorts Limited
Model : 22
Brand name : Farmtrac
Type : Four wheeled, four wheel driven, unit construction, Standard Agricultural Tractor.
Month & Year of manufacture : 06 / 20
Chassis number : T052503501CJ
Country of Origin : India
- 1.2 Engine:**
Make : M/s Mitsubishi Heavy Industries-VST Diesel Engines Pvt. Ltd.
Model : MVL3E-T3CC
Type : Four stroke, naturally aspirated, water cooled, direct injection, diesel engine
Serial number : A70283
- Engine speed (Manufacturer's recommended production setting), (rpm):**
- Maximum speed at no load : 3220 to 3280
- Low idle speed : 900 to 1030
- Speed at maximum torque : 1400 to 2000
- Rated speed, (rpm):**
- For PTO use : 3000
- For drawbar use : 3000
- 1.3 Cylinder & Cylinder Head:**
Number : Three
Disposition : Vertical, Inline
Bore/stroke, (mm) : 76/70
Capacity as specified by the applicant, (cc) : 952 (apa)
Compression ratio, (apa) : 23 : 1 (apa)

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14.4 Brakes:

Description	Initial specified thickness of brake lining,(mm)	Measured thickness of brake lining after test, (mm)	Height of brake lining over oil groove, (mm)	Minimum permissible height of brake lining above oil groove, (mm)
Left	4.02 to 4.16	4.11	0.45 to 0.54	0.10
Right	4.02 to 4.16	4.11	0.46 to 0.53	

14.5 Front axle : Front axle final drive reduction unit is located at wheel end, accommodated inside housing in separate portal. Ball bearings are provided at bevel gears & front axle case.

Condition of front axle seals & bearings : Normal

Any visual damage, pitting & chipping of front axle transmission gear teeth : None

Bearing number of final drive bevel gear shaft (stub axle) : TX-6305 Texspin

Clearance between centre pin and bushes, (mm) : 0.088 to 0.106 | Against the discard limit of 0.60 mm.

14.6 Steering system:
Visual condition of the components of complete steering assembly : Normal

14.7 Starter motor & Alternator:
Presence of soil/oil in housing : None
Condition of bearings and other Components : Normal

15. ADJUSTMENTS, DEFECTS, BREAKDOWNS AND REPAIRS

Sl. No.	Adjustments/Defects/Breakdowns and Repairs	Tractor run hours
--	-None-	--

16. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

16.1 On the basis of test conducted the performance results have been summarized as evaluative (mandatory) / Non-evaluation (Non-mandatory) parameter applicable for qualifying Minimum Performance criteria as per Clause-4 (Table-1) of **Indian standard: 12207-2019** for acceptance of the tractor for the purpose of subsidies/NABARD financing are summarized as under:

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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 require- ments (Yes/No)
1	2	3	4	5	6	7
16.1.1	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	12.0 (D)	12.1	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	12.0 (D)	12.1	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	$+ 10\%$ maximum	350 (D)	337	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	$\pm 8\%$	50.0 (D)	48.5	Yes
e)	Back-up torque, percent	Evaluative	12 percent, min.	12 (R) percent, min.	25.6	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.	135 (D)	115	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)	90	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. power under High ambient conditions	3.37 (R) 3.50 (D)	0.65	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.	3.25 per meter (R)	0.82	Yes

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1	2	3	4	5	6	7
16.1.2	Drawbar performance :					
a)	Max. drawbar pull with ballast corresponding to 15 percent wheel slip or 7 percent track slip, (kN)	Non Evaluative	Minimum 70% of static mass with ballast	Manufacturer has not recommended any ballast mass, therefore this test was not conducted.	Not recommended by the manufacturer	Not applicable
b)	Max. drawbar pull without ballast or with standard ballast corresponding to 15 percent wheel slip or 7 percent track slip, (kN)	Evaluative	Minimum 70% of static mass of tractor without ballast or with standard ballast, as the case may be	5.55 (D) 5.87 (R) Minimum	7.75	Yes
c)	Maximum drawbar power without ballast, or with standard ballast as in case may be ,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.	9.0 (D) 9.7 (R) Minimum	10.8	Yes
d)	For the tractors fitted with air conditioned /heated cabin Maximum drawbar power without ballast, or with standard ballast as the case may be, kW	Evaluative	Minimum 70 % of PTO power as referred in SI No. i) a) of PTO performance in case of tractors having total static mass > 1500 kg.	Not provided	Not applicable	Not applicable
e)	Maximum transmission oil temperature, (°C)	Evaluative	To be declared by the manufacturer.	125 (D)	84	Yes
16.1.3	Power lift and hydraulic pump performance:					
a)	Maximum lifting capacity throughout the range of lift, (kN):					
	1) At hitch points	Evaluative	Tolerance of ± 10%	7.45 (D)	8.10	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	4.90 (D) 2.85 (R) (Minimum)	5.68	Yes

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1	2	3	4	5	6	7
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) 50 (R) Maximum	15	Yes
16.1.4 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 m	10 (R)	4.40	Yes
	2) Hot brake	Evaluative	10 m	10 (R)	4.70	Yes
b)	Maximum force exerted on the brake pedal to achieve a deceleration of 2.5 m/s ² (N)	Evaluative	600 N	600 (R) Maximum	250 to 270	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
16.1.5 Noise measurement :						
a)	Maximum ambient noise emitted by the tractor dB(A)	Evaluative	88 dB (A) for >1.5 tonne GVW and 85 db (A) for <1.5 tonne GVW (as per CMVR)	As per CMVR	82	Yes
b)	Maximum noise at operator's ear level dB(A)	Evaluative	96 (as per CMVR)	As per CMVR	92	Yes
16.1.6 Amplitude of mechanical vibrations at:						
	1) Left foot rest	Non Evaluative	100 microns (max)	100 (R)	154	No
	2) Right foot rest			100 (R)	101	No
	3) Seat (with driver seated)			100 (R)	77	Yes
	4) Steering wheel			100 (R)	120	No
16.1.7 Air cleaner oil pull over test :						
	Maximum air cleaner pull over, (%)	Evaluative	0.25% (Max)	Dry type air cleaner provided		Not applicable
16.1.8 Haulage requirements:						
a)	Gross mass of the trailers, (tonne):					
	1) Two wheel	Non Evaluative	As specified by the manufacturer	1.5 (D)	1.5	Yes
	2) Four wheel			Not recommended	Not recommended	Not applicable
b)	Distance travelled / litre of fuel consumption, (km/l):					
	1) Two wheel	Non Evaluative	As specified by the manufacturer	4.0 to 5.0 (D)	6.62 to 6.89	No
	2) Four wheel			Not recommended	Not applicable	--
c)	Fuel consumption (ml/km/tonne):					
	1) Two wheel	Non Evaluative	As specified by the manufacturer	85.0 to 90.0 (D)	96.71 to 100.74	No
	2) Four wheel			Not recommended	Not applicable	--

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1	2	3	4	5	6	7
16.1.9	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.	There should be no ingresses of water and / or mud (R)	No ingress of mud and water was observed	Yes
	1) Clutch assembly	-do-				
	2) Brake housings	-do-				
	3) Front axle hubs	-do-				
	4) Engine oil	-do-				
	5) Transmission oil	-do-				
16.1.10	Safety features:					
a)	Guards against moving and hot parts	Evaluative	Belt drives, pulleys, silencer, hydraulic pipes (As per IS: 12239 (Part-2))	--	Meets the requirements	Yes
b)	Lighting arrangement	Evaluative	As per CMVR	--	Meets the requirements	Yes
c)	Seating requirements (Tractors having more than 1150 mm rear track width)	Non Evaluative	Should meet the requirements of IS: 12343 (As amended from time to time)	--	Does not meet the requirement	Not applicable
d)	Technical requirements for PTO shaft	Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)	--	Meets the requirements	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	Does not conform
f)	Specifications of linkage drawbar	Evaluative	Should meet the requirements of IS 12953 (As amended from time to time)	--	Meets the requirements	Yes
(g)	Swinging drawbar (wherever fitted)	Evaluative	Should meet the requirements of IS 12362 (Part 3) (As amended from time to time)	--	Not provided	Not applicable
(h)	1) Maximum traveling speed at rated engine speed in reverse gear, kmph	Evaluative	Should not exceed 20.00 kmph	--	10.83 kmph (Meets the requirement)	Yes

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1	2	3	4	5	6	7
	2) Audible warning signal on tractor	Evaluative	As soon as the travelling speed in reverse gear reaches to 20 kmph ,an audible warring signal on tractor be activated , The safety aspects about the operation of shuttle technology shall be brought in operation and manufacturer /dealer shall ensure the training on this aspect to operator before the delivery of tractor.		Not applicable	Not applicable
16.1.11	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 MM YY Digit 01-12 in box No.1 for MM will represent the months & next two digits in box No.2 for YY will represent the year of manufacturing.		ESCORTS LIMITED	Yes
	2) Model	Evaluative			22	Yes
	3) Month & Year of manufacture	Evaluative			06 & 20	Yes
	4) Engine number	Evaluative			A70283	Yes
	5) Chassis number	Evaluative			T052503501CJ	Yes
	6) Declaration of PTO power, kW	Evaluative			12.0	Yes
	7) Specific Fuel Consumption g/kWh	Evaluative			350	Yes
16.1.12	Discard limit for:					
(a)	Cylinder bore diameter, (mm)	Evaluative	To be specified by Manufacturer	76.2	76.012 to 76.024	Yes
(b)	Clearance between piston & cylinder liner at skirt, (mm)	Non Evaluative		0.08	0.114 to 0.116	No
(c)	Piston diameter at skirt, mm	Non Evaluative		76.406	75.908 to 75.910	No
(d)	Ring end gap (mm):					
	- Top comp. ring.	Evaluative	-do-	1.5	0.30 to 0.35	Yes
	- 2 nd comp. ring.		-do-	1.5	0.40	Yes
	- Oil ring.		-do-	1.5	0.40	Yes
(e)	Ring groove clearance (mm):					
	- Top comp. ring.	Evaluative	-do-	0.30	Tapered	Not applicable
	- 2 nd comp. ring.	-do-	-do-	0.30	0.090 to 0.094	Yes
	- Oil ring.	-do-	-do-	0.20	0.040 to 0.041	Yes
(f)	Clearance of main end bearings, (mm):					
	- Diametrical	Evaluative	-do-	0.15	0.058 to 0.111	Yes
	- Crank shaft end float	Evaluative	-do-	0.20	0.15	Yes

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1	2	3	4	5	6	7	
(g)	Clearance of big end bearings, (mm):						
	-	Diametrical	Evaluative	-do-	0.20	0.045 to 0.120	Yes
	-	Axial	Evaluative	-do-	0.70	0.20	Yes
(h)	Clearance between king pin and bush,(mm)	Non Evaluative	-do-	Not applicable	Not applicable	--	
(i)	Clearance between center pin and bush,(mm)	Non Evaluative	-do-	0.60	0.088 to 0.106	Yes	
16.1.13	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	
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 or OECD code or equivalent International Standard	Not provided	Not fitted	Not applicable	
16.1.15	Standard accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor	Provided	Provided	Yes	
16.1.16	Accessories (Optional)	Non Evaluative	Ballast weights if fitted should meet the requirement of CMVR.	Provided	Not applicable	--	

16.2 CATEGORY OF BREAKDOWNS / DEFECTS (As per Clause 5.0 of IS:12207-2019):					
S. 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 two major breakdowns and neither of them of repetitive 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

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16.3 Salient Observations:

16.3.1 Laboratory tests:

16.3.1.1 PTO Performance:

- i) The maximum PTO power was observed as **12.1 kW** against the declaration of **12.0 kW**, which meets the requirement of IS: 12207-2019 with regard to tolerance limit.
- ii) The specific fuel consumption corresponding to maximum power was recorded as **337 g/kWh** against the declaration of **350 g/kWh**, which meets the requirement of IS: 12207-2019 with regard to tolerance limit.
- iii) The backup torque is **25.6 %**, which meets the evaluative requirement of IS: 12207-2019.

16.3.1.2 Mechanical Vibration:

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

16.3.1.3 Three point linkage:

- i) Distance from end of power take off to center of lower hitch point does not meet the requirement of relevant test code. It should be looked into.
- ii) Some of the parameters conform to Cat. I and some of them conform to Cat. I N Keeping in view the spirit of standardization, necessary improvement may be incorporated.

16.3.1.4 Operator's Seat:

- i) Vertical distance from SIP to clutch & brake pedal does not meet the requirement of relevant test code. It should be looked into.
- ii) Longitudinal distance from SIP to differential lock pedal and vertical distance from SIP to center line of steering control wheel does not meet the requirement of relevant test code. It should be looked into.

16.3.1.5 Operator's work place:

Operator's work place meets the requirements of IS: 12239 (Part-I) 1996, **except the following:**

- i) Vertical retainer at inner side of clutch pedal. It should be looked into.
- ii) Provision of spark arresting device in the exhaust system. It should be looked into.
- iii) Provision for drainage at LHS foot rest is not provided. It should be looked into.

16.3.1.6 Constructional requirement with regard to safety:

Meets the requirements of IS: 12239 (Part-II)-1996, **except the following:**

- i) PTO master shield has not been provided.
- ii) Working clearance in between position control and draft control lever is 25 mm which is less than the requirement of relevant test code.

16.3.1.7 Location of operator's controls with regard to safety:

Location of operator's controls with regard to safety meets the requirements of IS: 8133-1983(Reaffirmed 2014).

16.3.1.8 Components/Assembly Inspection:

- i) Clearance between piston to cylinder at skirt does not meet the non evaluative requirement of IS: 12207-2019. It should be looked into.
- ii) Discard limit of piston diameter at skirt does not meet the non evaluative requirement of IS: 12207-2019. It should be looked into.

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16.3.2 Field performance test:

16.3.2.1 Wet land cultivation (Puddling operation):

The manufacturer recommended “deep lug tyres” for wet land cultivation (puddling operation) and specifications of the deep lug tyre are given in **Annexure-II**.

16.4 Maintenance / Service Problems:

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

16.5 Recommendation with regard to safety on tractor:

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

- i) Provision for spark arresting device in exhaust system.
- ii) Vertical distance from seat index point to clutch, brake pedal and center of steering control wheel should be provided as per relevant Indian Standard.
- iii) Longitudinal distance from seat index point to differential lock pedal should be provided as per relevant Indian Standard.
- iv) Provision for drainage for LHS foot rest should be provided as per relevant Indian Standard.
- v) Vertical retainer at both sides of clutch pedals should be provided as per relevant Indian standard.
- vi) The working clearance between draft control lever and position control lever should be as per the minimum requirements of relevant Indian Standard for easy operating the lever.
- vii) PTO shaft master shield should be provided to avoid the accident.

16.6 Adequacy of Literature supplied with machine:

16.6.1 The following literature was supplied with the tractor for reference during the test:



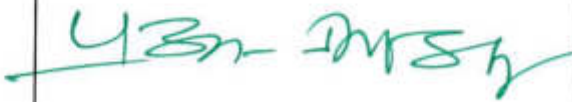
- i) Tractor Operator’s Manual of ESCORTS LIMITED, 22,35 & 26 Models Tractor (Brand name- Farmtrac)
- ii) Parts Catalogue of ESCORTS LIMITED, 22 Tractor (Brand name- Farmtrac)
- iii) Service Manual of ESCORTS LIMITED, 22 & 35 Models Tractor (Brand name- Farmtrac)
- iv) Service manual of Mitsubishi Diesel Engine L3E – series, Engine Model No. MVL3E-T3CC.

16.6.2 i) The printed literature supplied with the test sample is in English. However, these literatures should be brought out in other vernacular languages of India for guidance of users.

16.7 Delay of three and half month in testing, was due to non-supply of “deep lug tyres” for wet land (puddling operation) cultivation by the manufacturer.

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TESTING AUTHORITY:

C.V.CHIMOTE TEST ENGINEER	
Y. K. RAO SENIOR AGRICULTURAL ENGINEER	
P. K. PANDEY DIRECTOR	

Draft test report compiled by: Shivkumar Sharma, Senior Technical Assistant

17. APPLICANT'S COMMENTS

Para No.	Our Reference	Applicant's comments
17.1	16.3.1.2, 16.3.1.3, 16.3.1.4, 16.3.1.5, 16.3.1.6, 16.5 & 16.6	Your valuable comments & suggestions for improvement are well taken under our policy of continuous product improvement. These aspects are further being looked into and we will try to eliminate these deviations soon, wherever necessary.
17.2	16.3.1.8	Typographical mistake at our end and will be taken care of.
17.3	16.7	Due to Covid-19 we were not able to supply "deep lug tyres" on time.

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ANNEXURE- I

BRIEF SPECIFICATION OF IMPLEMENTS USED DURING FIELD TEST

S.No	Parameters	Rotavator	MB Plough
1.	Make	Mahindra	Mahindra & Mahindra
2.	Type	Mounted	Mounted
3.	No. of Disc/blades	16	Two
4.	Type of Disc/blades	Hatchet	General purpose
5.	Size of bottoms/blades, (mm)	110 x 70 x 7	255
6.	Spacing of bottoms/flanges, (mm)	200	170
7.	Lower hitch point span, (mm)	490	480
8.	Mast height, (mm)	325	375
9.	Over all dimensions:		
	- Length	1010	1035
	- Width	1080	760
	- Height	745	840
10.	Gross mass, (kg)	185	75

ANNEXURE- II

BRIEF SPECIFICATION OF DEEP LUG TYRES USED DURING PUDDLING TEST

S.No	Parameters	Tyre	
		Front	Rear
1.	Make	BKT	BKT
2.	Model	TR -171	TR - 171
3.	Type	Pneumatic deep tread	Pneumatic deep tread
4.	Size	5.00 - 12	8.00 - 18
5.	Ply rating	6	8
6.	Rim:		
	Make	CWPL	CWPL
	Size	4 J x 12	W 7 x 18

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ANNEXURE- III

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	--
2.	PTO performance test	11.7
3.	Power lift and hydraulic pump performance test	1.5
4.	Drawbar performance test	12.4
5.	Turning ability	0.5
6.	Location of centre of gravity	Nil
7.	Operator's field of vision	0.1
9.	Brake test	0.8
10.	Noise measurement	1.0
11.	Mechanical vibration test	1.0
12.	Theoretical speed test	1.5
B.	FIELD TEST:	
1.	MB ploughing	10.7
2.	Rotavation	10.1
3.	Puddling (including 5.0 hours of water proof test)	10.5
C.	HAULAGE TEST:	7.2
D.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test.	13.4
	TOTAL:	82.4