

व्यावसायिक परीक्षण रिपोर्ट (प्रथम बैच परीक्षण)
COMMERCIAL TEST REPORT (First Batch Test)

संख्या/No. : T- 1702/2233/2023
माह/Month : January, 2023

Application Reference No.28/2022-23/19

(यह परीक्षण रिपोर्ट 31/01/2030 तक वैध है / THIS TEST REPORT IS VALID UPTO 31/01/2030)



**FORCE MOTORS LTD.,
OX 25 ORCHARD DLX LT 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 : Force Motors Ltd.
 Model : OX 25 ORCHARD DLX LT
 Type : Rear wheel drive, standard agricultural tractor.
 Month & Year of manufacture : 06/22
 Chassis number : T08030017F22
 Country of Origin : India
- 3.2 Engine:**
- Manufacturer's address : M/s. Force Motors Limited.
 Mumbai - Pune Road,
 Akurdi, Pune (M.S.) - 411 035
- Make : M/s. Force Motors Ltd.
 Model : TD1950F(27)
 Type : Four stroke, water cooled, naturally aspirated, direct injection, diesel engine.
 Serial number : D10057165
- Engine speed (Manufacturer's recommended production setting), (rpm):**
- Maximum speed at no load : 2400 to 2500
 - Low idle speed : 700 to 750
 - Speed at maximum torque : 1300 to 1500
- Rated speed, (rpm):**
- For PTO use : 2200
 - For drawbar use : 2200
 Country of Origin : India
- 3.3 Cylinder & Cylinder Head:**
- Number : Three
 Disposition : Inline, vertical
 Bore/stroke, (mm) : 90.9/100
 Capacity as specified by the applicant, (cc) : 1947
 Compression ratio, (apa) : 18.3 :1 to 18.8 : 1
 Type of cylinder head : Monoblock
 Type of cylinder liners : Dry, Replaceable
 Type of combustion chamber : Open cavity on piston crown
 Arrangement of valves : Overhead, Inline
- Valve clearance (cold / Hot) :**
- Inlet valve, (mm) : 0.10/0.15
 - Exhaust valve, (mm) : 0.30/0.35
- 3.4 Fuel System:**
- Type of fuel feed system : Gravity & force feed
- 3.4.1 Fuel tank:**
- Capacity, (l) : 29.5
 Location : Above clutch housing
 Provision for draining of sediments/ water : **Not provided**
 Material of fuel tank : Metallic

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1	2	3	4	5	6	7
15.3.2	Power lift and hydraulic pump performance:					
a)	Maximum lifting capacity throughout the range of lift, (kN):					
	1)	At hitch points	±10 percent	The performance shall be within 7.5 of ICT or limit specified under column 3 whichever is higher	10.91	10.37
2)	With the standard frame	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	8.56		8.06	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 minute, (mm)	The observed value should not exceed 50 mm		05	00	No

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.	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
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: ± 5% for PTO power or engine power >26 kW, ± 10% for PTO power or Engine power ≤ 26 kW.	17.0 (D)	17.1	Yes
b)	Power at rated engine speed, (kW)	Non-Evaluative	-do-	17.0 (D)	17.1	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+ 10% maximum	260 (D)	269	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non-Evaluative	± 8%	96 (D)	93.2	Yes
e)	Back-up torque, percent	Evaluative	12 %, minimum	12 %, (R) minimum.	25.4	Yes

1	2	3	4	5	6	7	
f)	Maximum operating temperature, (°C)						
	1)	Engine oil	Evaluative	The declared value should not exceed the max. value specified by the oil company and the observed value under high ambient condition should not exceed the declaration.	130 (D)	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.	110 (D)	108	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. power under High ambient conditions	2.50 (D) maximum 2.74 (R)	0.63	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	0.88	Yes	
16.1.2 Drawbar performance:							
a)	Max. drawbar pull with ballast corresponding to 15 percent wheel slip, (kN)	Non-Evaluative	Minimum 70% of static mass with ballast	14.50 (D) 12.69 (R) minimum	14.54	Yes	
b)	Maximum drawbar pull without ballast corresponding to 15 percent wheel slip, (kN)	Evaluative	Minimum 70% of static mass of tractor without ballast	10.80 (D) 10.47 (R) minimum	11.74	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.	13.6 (D) 13.7 (R) minimum	15.0	Yes	
d)	Max. transmission oil temperature, (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	120 (D)	86	Yes	

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1	2	3	4	5	6	7	
16.1.3	Power lift and hydraulic pump performance:						
a)	Maximum lifting capacity throughout the range of lift, (kN):						
	1)	At hitch points	Evaluative	±10%	10.00 (D)	10.37	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	7.84 (D) 4.02 (R) minimum	8.06	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 minute, (mm)		Non Evaluative	Observed value should not exceed 50 mm.	Nil (D) 50 maximum	00	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	10	7.19	Yes
	2)	Hot brake	Evaluative	10	10	7.42	Yes
b)	Maximum force exerted on the brake pedal to achieve a deceleration of 2.5 m/s ² (N)		Evaluative	600	600 maximum	330 to 361	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 (R)	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)	88 maximum	84	Yes
b)	Maximum noise at operator's ear level, dB(A)		Evaluative	96 (as per CMVR)	96 maximum	93	Yes
16.1.6	Amplitude of mechanical vibrations at:						
	1)	Left foot rest	Non-Evaluative	100 microns (max.)	100 (max.)	193	No
	2)	Right foot rest				156	No
	3)	Seat (with driver seated)				93	Yes
	4)	Steering Wheel				184	No

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1	2	3	4	5	6	7
16.1.7	Air Cleaner:					
	Max. oil pull over, (%)	Evaluative	0.25% (max.)	Dry type air cleaner is fitted		Not applicable
16.1.8	Haulage requirements:					
a)	Gross mass of the trailers, (tones):					
	Two wheel	Non-Evaluative	As specified by the manufacturer	2.5 (D)	2.5	Yes
b)	Distance travelled / litre of fuel consumption, (km/l):					
	Two wheel	Non-Evaluative	As specified by the manufacturer	6.4 to 7.0 (D)	6.84 to 6.95	Yes
c)	Fuel consumption (cc/km/tonne):					
	Two wheel	Non-Evaluative	As specified by the manufacturer	57.14 to 62.50 (D)	57.54 to 58.51	Yes
16.1.9	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 manufacturer has recommended that the tractor is not suitable for wetland cultivation (puddling operation). Hence wetland cultivation (puddling operation) was not conducted during Initial Commercial Test and Batch Test of the tractor model.	Not applicable
	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 (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)	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)	Meets the requirement		Yes

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1	2	3	4	5	6	7		
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		12.06 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		
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. <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		Force Motors Limited	Yes
MM	YY							
	2) Model	Evaluative				OX 25 ORCHARD DLX LT	Yes	
	3) Month & Year of manufacture	Evaluative				06-22	Yes	
	4) Engine number	Evaluative				D10057165	Yes	
	5) Chassis number	Evaluative				T08030017F22	Yes	
	6) Maximum PTO power, (kW)	Evaluative				17	Yes	
	7) Specific fuel consumption, g/kWh	Evaluative			260	Yes		
16.1.12	Discard limit for:							
(a)	Cylinder bore diameter, (mm)	Evaluative	To be specified by the manufacturer and supported by the printed literature	91.128	90.908 to 90.928	Yes		
(b)	Clearance between piston & cylinder liner at skirt, (mm)	Non-Evaluative		0.120	0.046 to 0.055	Yes		
(c)	Piston diameter at skirt, (mm)	Non-Evaluative		90.74	90.871 to 90.878	Yes		
d)	Ring end gap, (mm):							
	- Top comp. ring.	Evaluative	To be specified by the manufacturer and supported by the printed literature	1.50	0.40	Yes		
	- 2 nd comp. ring.			1.50	0.95	Yes		
	- Oil ring.			1.50	0.30 to 0.35	Yes		

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1	2	3	4	5	6	7	
(e)	Ring groove clearance, (mm):						
	-	Top comp. ring.	Evaluative	To be specified by the manufacturer and supported by the printed literature	0.20	0.139 to 0.140	Yes
	-	2 nd comp. ring.			0.15	0.103 to 0.110	Yes
	-	Oil ring.			0.10	0.070 to 0.075	Yes
(f)	Clearance of main bearings, (mm):						
	-	Diametrical clearance	Evaluative	To be specified by the manufacturer and supported by the printed literature	0.24	0.032 to 0.052	Yes
	-	Crankshaft end float	Evaluative		0.50	0.10	Yes
(g)	Clearance of big end bearings, (mm):						
	-	Diametrical	Evaluative	-do-	0.24	0.012 to 0.028	Yes
	-	Axial	Evaluative	-do-	0.24	0.15	Yes
(h)	Clearance between king pin and bush, (mm)		Non-Evaluative	-do-	0.75	0.128 to 0.268	Yes
(i)	Clearance between centre pin and bush, (mm)		Non-Evaluative	-do-	0.75	0.037 to 0.062	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 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
16.1.15	Standard Accessories		Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor		Provided	Yes
16.1.16	Accessories (optional)		Non Evaluative	Ballast weight, if fitted, should meet the requirement of CMVR		Provided	Yes

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16.2 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

16.3 Salient Observations:

16.3.1 Laboratory tests:

16.3.1.1 Drawbar Performance Test:

Maximum drawbar power without ballast has been recorded as 15.0 kW, whereas the same was observed as 16.3 kW during the initial commercial testing. The observed value is 7.98% higher than the base model value. Hence, the batch model does not meet the qualifying performance criteria in comparison to ICT model as per the requirement laid down in clause 7.6 of IS: 12207 – 2019. This should be looked into.

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 foot rest, right foot rest and steering wheel to improve the operational comfort and service life of components.

16.3.1.3 Operator's seat:

The following parameters does not meet the requirement of IS: 12343-2021 and should be looked into for necessary corrective measures.

- i) Length of seat has been measured as 195 mm against the requirement of 260 ± 50 mm.
- ii) Provision for adjustment of driver's mass has been specified as 50 to 120 kg against the requirement of 40 to 100 kg.
- iii) Longitudinal distance from SIP to centre of differential lock pedal has been measured as 110 mm against the requirement of 410 to 720 mm.
- iv) Longitudinal distance from SIP to centre of steering control wheel has been measured as 180 mm against the requirement of 425 to 525 mm.
- v) Vertical distance from SIP to centre of steering control wheel has been measured as 150 mm against the requirement of 265 to 385 mm.

The recommendations at S. No. (i), (iii), (iv), & (v) were also made in the previous test report No. T-1638/2169/2022 (April, 2022) and no improvement have been made as regards to its conformity so far.

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16.3.1.4 Component/ Assembly inspection:

Spring rate of intake and exhaust valves were recorded as 19.1 to 20.1 and 20.3 to 20.7 N/mm respectively against the discard limit of 22.8 N/mm. This should be looked in to for corrective action.

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) The distance of engine stop control from engine start control has been measured as 230 mm against the requirement of maximum 150 mm as per the requirement of IS: 8133-2021.
- ii) The hand accelerator lever, when moved away from the operator (i.e., forward) decreases the engine speed, which does not meet the requirement as laid down in Table – 1 of IS: 8133-2021.
- iii) Transmission neutral position has not been marked in the Main gear selection lever, as well as in Reverse cum range selection lever as per the requirement of Table-1 of IS: 8133-2021.
- iv) Identification of hand control by colour coding of engine stop control (Red), speed control (orange), transmission control (orange), parking brake (orange), differential lock pedal (Yellow) & PTO engage lever (yellow) has not been provided as per the requirement as laid down in Table – 5 of IS: 8133-2021.
- v) Vertical retainer has not been provided at the inner side of clutch pedal as per requirement of IS: 12239 (Part -1) 2018.
- vi) Width of foot step has been measured as 180 mm against the minimum requirement of 200 mm as per the requirement of IS: 12239 (Part-1)-2018.
- vii) Spark arrester has not been provided in the exhaust system as per IS: 12239 (Part -1) 2018.
- viii) Working clearance around the Hydraulic operation lever (raising and lowering) & mudguard was measured 40 mm against the minimum requirement of 70 mm as per IS:12239(Part-2)-1999.

The observations at S. No. (v), (vi), (vii) & (viii) were also made in the previous test report No. T-1621/2152/2022 (January, 2022) and no improvement have been made as regards to its conformity so far. All of the above should be looked into for necessary corrective action.


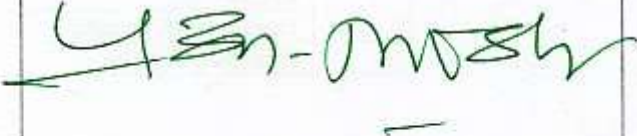
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16.6 Adequacy of Literature supplied with machine:

16.6.1 The following literature was supplied with test sample for reference during the test.

- Owner's Manual for Force Motors Ltd., OX 25 Orchard DLX/ DLXLT tractor models.
- Workshop Manual for Force Motors Ltd., OX 25 Orchard DLX/ DLX LT tractor models.
- Spare Parts Catalogue for Force Motors Ltd., OX 25 Orchard DLX/ DLX LT tractor models.

TESTING AUTHORITY:

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

Test report is compiled by: **Partha Lodh**, Senior Technical Assistant.

17. APPLICANT'S COMMENTS

Para no.	Our reference	Applicant comments
17.1	15.3.1 (c) [P. No. 40 of 50] and 16.3.1.1 [P. No. 47 of 50]	We have noted the points and will look into for establishing the compliance.
17.2	10 [P. No. 33 of 50] and 16.3.1.2 [P. No. 47 of 50]	
17.3	3.20.1 (P. No. 18 of 50), and 16.3.1.3 (P. No. 47 of 50)	
17.4	13.1.7 [P. No. 35 of 50] and 16.3.1.4 [P. No. 48 of 50]	
17.5	3.20.3, 3.20.4 & 3.20.5 [P. No. 19. of 50] and 16.5 [P. No. 48 of 50]	

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ANNEXURE-I

BRIEF SPECIFICATION OF TRAILER DECLARED AS MATCHING TRAILER BY APPLICANT

S. No.	Item	Single axle trailer
1.	Make	Kisan Engineering Works, MIDC, Awadhan Dhule, (M.S.)
2.	Model	Kisan 1062
3.	Type of trailer	Semi - Trailer
4.	Number of axle(s)	Single
5.	Un laden Weight of Trailer, kg	1670
6.	Fully laden Weight of Trailer, (kg)	4000
7.	Overall dimensions of Trailer, (mm):	
	Overall Width	1870
	Overall Length	4180
	Overall Height	2175
	Wheel Base	Not applicable
8.	Dimension of fitted Platform, (mm):	
	Length	3040
	Width	1830
	Height from ground	1190
	Brakes of Trailer	Not Provided

ANNEXURE - II

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	21.8
2.	PTO performance test	11.3
3.	Power lift and hydraulic pump performance test	0.9
4.	Drawbar performance test	16.6
5.	Brake test	1.5
6.	Noise measurement	1.5
7.	Mechanical vibration test	0.8
8.	Nominal speed test	1.2
B.	HAULAGE TEST:	5.9
C.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	5.0
TOTAL:		66.5