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व्यावसायिक परीक्षण रिपोर्ट COMMERCIAL TEST REPORT (Batch Test) संख्या / No. : T-1007/1531/2016 माह / Month : March, 2016



FORCE MOTORS LTD, OX-25 ORCHARD DLX TRACTOR



भारत सरकार 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 द्रैक्टर नगर, बुदनी (म.प्र.) ४६६ ४४५ CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE (An ISO : 9001 - 2008 Certified Institute) Tractor Nagar, Budni (M.P.) 466 445 E-mail fmti-mp@nic.in Website : http://cfmtti.dacnet.nic.in

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Manufacturer

-

| | | | Mumbai - Pune Road, Akurdi, Pune – 411 035 |
|--------|--|-------|--|
| | Test requested by | 3 | : The manufacturer |
| | Place of running-in Duration of said running-in, (h): | | : At CFMT&TI, Budni |
| | - Engine | - 3 | : 33 |
| | - Transmission | | 33 |
| | Method of Selection | : | The test sample was selected randomly out of seven tractors from the production line by the representative of testing authority. |
| | 1. SPEC | CIFIC | ATIONS |
| 1.1 | Tractor: | | |
| | Make | | Force Motors Ltd |
| | Model | : | OX-25 ORCHARD DLX |
| | Variants if any | : | None |
| | Туре | : | Four wheeled, Rear-wheel driven, Standard Agricultural Tractor. |
| | Year of manufacture | : | 2015 |
| | Chassis Sr. number | : | T08007729A15 |
| | Country of origin | : | India |
| 1.2 | Engine: | | |
| | Make | | Force Motors Ltd. |
| | Model | | TD 1950 F(27) |
| | Туре | | |
| | Serial number | : | cooled, direct injection, diesel engine. D10028696 |
| 1.2.1 | Engine speed(Manufacturer's reco | mme | anded production patting) () |
| | - Maximum speed at no load | | 2400 to 2500 |
| | - Low idle speed | | |
| | Speed at maximum torque | : | 700 to 750 |
| | Rated speed, (rpm): - For PTO use | ÷ | 1300 to 1500 |
| | | : | 2200 |
| 10/125 | - For drawbar use | : | 2200 - |
| 1.3 | Cylinder & Cylinder Head: Number | : | Three |
| | Disposition | : | Vertical, Inline |
| | Bore / stroke, (mm) (apa) | : | 90.9 / 100.0 |
| | Capacity as specified by the | : : | 1947 |
| | applicant, (cc) (apa) Compression ratio | | |
| | Type of cylinder head | | 18.3 : 1 to 18.8 :1 |
| | Type of cylinder liners | | Mono block |
| | ,, | | Dry, replaceable |

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| | | | | | 3 60 | 1 |
|-------------------|-----------------------------------|---------------------|---------|-----|---------|---|
| T- 1007/1531/2016 | FORCE MOTORS Commercial (Batch | LTD, OX-25 Test) | ORCHARD | DLX | TRACTOR | J |

Previous Sample

ii) It is, however, recommended that operator's manual be revised/updated as per IS: 8132-1999. Present Sample

The literature supplied was found adequate.

M.T. S P

These literatures may also be brought out in National & other regional languages for guidance of user's.

13. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

13.1 Evaluative (mandatory) / Non-evaluative (Non-mandatory) parameter applicable for qualifying Minimum Performance criteria as per Clause-4 (Table-1) of IS: 12207-2014 for acceptance of the tractor for the purpose of subsidies/NABARD financing are summarized as under:

| S. No. | / Non as per IS: 12207-20 Evaluative) | | Requirements as per IS: 12207-2014 | Values declared by the applicant/ (D) Requirement (R) | As observed | Whether meets the require- ments (Yes/No. | |
|--------|---|-----------------|---------------------------------------|---|---------------------------|---|---------|
| 1 | | | 3 4 | | 5 | 6 | 7 |
| 13.1.1 | PTC | Performanc | e: | | | | |
| a) | Maximum power under 2 h test, (kW) (Natural ambient condition) | | Evaluative | Declared value to be achieved with a tolerance of: -5 / +10% for PTO power >26 kW7.5/+10% for PTO power \leq 26 kW or-5 / +10% for Engine power >26 kW7.5/+10% for Engine power \leq 26 kW | 18.0 (D) | 19.1 | Yes |
| c) | Specific fuel consumption corresponding to maximum power, (g/kWh) | | Non Evaluative | ± 5% | 260 (D) | 271 | Yes |
| d) | Maximum equivalent crankshaft torque, (Nm) | | Non Evaluative | ± 8% | 100 (D) | 99.5 | Yes |
| e) | Back-up torque, percent | | Non Evaluative | 10 %, min. | 20 (D) 10%, min (R) | 20.3 | Yes |
| f) | Max | dimum operatir | ng temperatu | re, (°C) | | | |
| | 1) | Engine oil | Non 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) | 105 | 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) | _, 104 | Yes |
| g) | Engin | | 2002004000 | Not exceeding 1% of SFC | 2.50 (D) | 02020 | 242-542 |
| | consu (g/kW | umption, /h) | Evaluative | at max. power under High ambient conditions. | 2.71(R) | 2.51 | Yes |

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| 1 | | 2 | 3 | 4 | 5 | 6 | 7 |
|--------|--|---|----------------------------|--|----------------------|----------|-----------|
| h) | Smo | ke level (per | Evaluative | Maximum light absorption coefficient of 3.25 per metre or equivalent BOSCH No. 5.2 or 75 Hatridge value (As per CMVR) | 3.25 (D/R) | 1.36 | Yes |
| 13.1.2 | Dra | wbar perform | ance : | | | | |
| a) | | imum drawbar | 1000000 | | 14.5 (D) | | |
| | corr 15 | with ballast esponding to percent wheel (kN) | Non Evaluative | Minimum 65% of static mass with ballast | 11.16 (R) Minimum | 13.46 | Yes |
| b) | Max | . drawbar pull | Albert MC (14 | | 10.8 (D) | | |
| | 15 | out ballast esponding to percent wheel (kN) | Evaluative | Minimum 65% of static mass of tractor with standard ballast | 9.18 (R) Minimum | 12.26 | Yes |
| c) | | imum drawbar | | Minimum 80 % of PTO | 14.5 (D) | 15.8 | Yes |
| | pow balli | er without ast, (kW). | | | 15.3 (R) Minimum | | |
| d) | tran | imum smission oil perature (°C) | Non Evaluative | The declared value should not exceed the maximum value specified by oil | 130 (D) | 81 | Yes |
| 13.1.3 | Po | vor lift and by | draulic num | company aulic pump performance : | | | 1 |
| a) | | | | ghout the range of lift, (| kN). | | |
| Ξ, | 1) | At hitch points | | [Tolerance of | | 9.91 | Ye |
| | 2) | With the standard frame | Evaluativ | ve The lift capacity should at least be | | | |
| | | | 8 | 24 kg/PTO kW. and it should be 21.5 kg/engine kW where the tractor is not provided with a PTO shaft | 4.50 (R) Minimum | 8.64 | Ye |
| b) | heig appl after inter | tion of 30 Minutes | of Non e Evaluativ s | [Tolerance of plus /e 5 mm] | Nil | Nil | Ye |
| 13.1.4 | | ke performan | | | | | |
| a) | Ma | | | a force, equal to or les | s than 600 N | on brake | e pedal v |
| | 1) | Cold brake | Evaluati | ve 10 | 10 (R) | 6.95 | Ye |
| | in the second se | Hot brake | Evaluati | time | 10 (R) | 6.50 | Ye |

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE - BUDNI Pa

| T- 100 | 7/153 | 1/2016 | FORC Comn | E MOTOR nercial (Bat | S LTD, OX-25 OF tch Test) | RCHARE | D | X TRA | CTOR |
|---------------------|--|---|--|-------------------------|--|----------------------------|--|---------------|----------|
| 1 | | 2 | | 3 | 4 | 5 | - | 6 | |
| b) | exi pe de | erted on dal to a celeration s ² (N) | chieve a | e Evaluative | | 600 ([| 5) | 240 to 259 | 7 Yes |
| c) | Whether parking brake is effective at a force of 600 N at foot pedal(s) or 400 N at hand lever | | Yes / No | | es (R) Yes | | Yes | | |
| 13.1.5 | No | ise mea | sureme | nt : | | | - | | |
| a) | Maximum ambient noise emitted by the tractor dB(A) | | | As per CMVR | 88 Maxim (R) | | 85 | Yes | |
| b) | | ximum r erator's e (A) | | | As per CMVR | 98 Maximum (R) | | 93 | Yes |
| 13.1.6 | Amplitude of mechani | | | anical vibra | ations at : | | _ | | |
| | 1) | Left foo | t rest | | | 100 | 1 | 180 | No |
| | 2) | Right fo | the second s | Non | 100 | Maximu | im [| 210 | No |
| | 3) | seated) | and the second se | Evaluative | 100 microns (max) | (R) | | 70 | Yes |
| 42 4 7 | 4) | Steering | | 1 | | | _ | 30 | Yes |
| 13.1.7 | Haulage requirements : Gross mass of the trailers, (tone | | | | _ | | | | |
| a) | 1) | Two who | of the ti | | | | | | |
| b) | | | DAN. | Non Evaluative | | 2.5 (D) 2.5 | | 2.5 | Yes |
| | Distance travelled / lit | | | insumption, (km/i): | 7.05 | 1 | | | |
| c) | | | 5071 C | Non Evaluative | - | 7.85 (D) | 6.67 to 7.07 | | No |
| | 1) | Two whe | npuon (n | nl/km/tonne) | | 1 | - | | |
| | 11 | 1110 1116 | 201 | Non Evaluative | - | 50.9 | 5 | 6.6 to | No |
| 13.1.8 | We | tland cu | Itivation | | | (D) | - | 60.0 | _ |
| Allower Henry Henry | Sea | ling for | STREET, STREET | Evaluative | The identified | 1 | 1 | | |
| | | wing emblies: | | | assemblies should essentially meet the | There | | per test r | |
| | 1) | Clutch | And Street, 199 | -do- | requirement of IS: 11082. No water | should be no ingress | T-791/1299/2011 tractor was not recommended for wet land cultivation. | | |
| | 2) | Brake | | -do- | ingress in the identified assembly given in column-2. | of water | | | |
| | 3) | Front a hubs | | -do- | If tractor does not meet the requirements of wetland cultivation, | and/or mud (R) | | | |
| | 4) | Engine | | -do- | it may be | 1.000.00 | | | |
| | 5) | Transmon oil | | -do- | recommended for dry land operation only. | | | | |
| 3.1.9 | | ety featu | the second se | | | | 1 | | |
| a) | Gua mov part | ing and | | Evaluative | Belt drives, pulley, silencer, hydraulic pipes (As per IS 12239 part 2) | - | Pro | ovided | Yes |
| b) | Ligh | | E | Evaluative | As per CMVR | - | Pro | ovided | Yes |
| c) | Seat | the second se | | Non- Evaluative | Should meet the requirements of IS 12343 (as amended from time to time) | - | Cor | nforms | Yes |

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| 1 | | 2 | 3 | 4 | 5 | | 7 |
|---------|-------------|---|--------------------|--|--------|---|-----|
| d) | req | chnical uirements for O shaft | Non- Evaluative | Should meet requirements of IS 4 (as amended from t to time) | ime | Contonino | Yes |
| e) | thre | nension of ee point age | Non- Evaluative | Should meet requirements of IS 4 (part 1) (as amen from time to time) | | Contonnis | Yes |
| f) | link swi | ecification of age and inging wbars | Non- Evaluative | Should meet requirements of 12953 and IS 12 (part 3) (as amen from time to time) | | Conforms | Yes |
| 13.1.10 | La | belling of tracto | rs (Provision | n of labelling plate | | | |
| | 1) | Make | Evaluative | 15.0 A.S. 18 | | Force Motors Ltd. | Yes |
| | 2) | Model | Evaluative | Should conform to the | - | OX 25 Orchard DLX | Yes |
| | 3) | Year of manufacture | Evaluative | requirements of - CMVR along- with declared - | | 2015 | Yes |
| | 4) | Engine serial number | Evaluative | value of PTO HP | | D10028696 | Yes |
| - | 5) | Chassis serial number | Evaluative | | | T08007729A15 | Yes |
| | 6) | Declaration of PTO power, (kW) | Evaluative | | - | 18.0 | Yes |
| 13.1.11 | Dis | scard limit for: | | | | | |
| (a) | | inder bore meter, (mm) | Evaluative | To be specified by the | 91.128 | 3 90.93 to 90.95 | Yes |
| (b) | Cle | arance between ton & cylinder er at skirt, (mm) | Non Evaluative | manufacturer | 0.120 | 0.045 to 0.063 | Yes |
| (c) | | ng end gap (mm | 1): | | | | |
| 10. C | 100 | Top comp. ring. | | -do- | 1.50 | 0.30 to 0.45 | Yes |
| | | 2 nd comp. ring. | Evaluative | -do- | 1.50 | 1.00 to 1.10 | Yes |
| | | and the second se | Evaluative | -do- | 1.50 | the second | Yes |
| (4) | _ | Oil ring. | | -00- | 1.50 | 50 0.40 to 0.45 | |
| (d) | RI | ng groove clear | ance (mm): | No. | | | |
| | - | Top comp. ring. | | -do- | 0.20 | 0.121 to 0.130 | Yes |
| | - | 2 nd comp. ring. | Evaluative | -do- | 0.15 | 0.058 to 0.070 | Yes |
| | - | Oil ring. | | -do- | 0.10 | 0.022 to 0.045 | Yes |
| (e) | Cle | earance of main | bearings (m | im): | | | |
| inter a | | Diametrical clearance | Evaluative | To be specified by the | 0.24 | 0.050 to 0.102 | Yes |
| | | Crankshaft end float | Evaluative | manufacturer- | 0.50 | 0.20 | Yes |
| (f) | Cle | earance of big e | | | | | |
| | - | Diametrical | Evaluative | -do- | 0.24 | 0.044 to 0.072 | Ye |
| | - | Axial | Evaluative | -do- | 0.24 | 0.20 | Ye |
| (g) | bet | earance ween king pin d bush, (mm) | Non Evaluative | -do- | 0.75 | 0.190 to 0.450 | Ye |
| (h) | Cle | earance between htre pin and sh, (mm) | Non Evaluative | -do- | 0.75 | 0.066 to 0.130 | Ye |

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| T- 1007/1531/2016 | FORCE MOTORS LTD, OX-25 ORC Commercial (Batch Test) | HARD DLX TRACTOR |
|-------------------|--|------------------|
| | Commercial (Batch Test) | |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
|---------|-----------------------------|---|--|--|-----------------|-------------------------------------|--|
| 13.1.13 | Literature (Submi | ssion to test | agency) | | | | |
| (a) | Operator manual | Evaluative | Provided/Not Provided | As per relevant IS Code (IS 8132) | Provided | Yes | |
| (b) | Parts Catalogue | Evaluative | Provided/Not Provided | As per relevant IS Code (IS 8132) | Provided | Yes | |
| (c) | Workshop/ Service manual | Evaluative | Provided/Not Provided | As per relevant IS Code (IS 8132) | Provided | Yes | |
| 13.1.14 | CATEGORY OF BR | EAKDOWNS / | | | | | |
| S. No. | Category of breakdowns | Category (Evaluative / Non Evaluative) | Requirements as per IS: 12207-2014 | As observe | ed requi (Ye | meets the rements s/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 | | | Yes | |
| 3. | Minor | Evaluative | Not more than five and frequency of each should not be more than two. | 1 f 1 | | Yes | |
| 4. | Total breakdowns | Evaluative | minor) or t minor breakdowns. | f 1 3 5 | | Yes | |
| 13.2 | Optional require | ements as per | Clause-4 (Tabl | e-2) of IS:1220 | 07-2014: | | |
| S. No. | Characteristic | Requ | uirements 5: 12207-2014 | As observ | ved requ | er meets th iirements es/No.) | |
| 1. | Fitment of ROPS | ROPS. | sion for fitment o | Not provid | ded Not a | applicable | |
| | | requirement | I it should meet th of IS: 11821-1992 | Notprovid | ded Not a | applicable | |
| 2. | Accessories | | , front tow hool awbar may b | k, e Provide | bd | Yes | |

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Yes

Yes

Yes

Yes

Yes

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- i) Guidelines for declaration of power and specific fuel : Conforms consumption and labeling of agricultural tractors (First revision) [IS: 10273-1987 (Reaffirmed in March, 2009)]
- Agricultural tractors Rear mounted power take-off : Conforms Types 1, 2 and 3(third revision)[IS: 4931-1995 (Reaffirmed in March, 2009)]

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| T- 1007/1531/2016 | FORCE | MOTORS | LTD, | OX-25 | ORCHARD | DLX | TRACTOR | - |
|-------------------|-------|--------------|--------|-------|---------|-----|---------|---|
| | Comme | rcial (Batch | n Test | | | | | |

- Agricultural wheeled tractors Rear mounted three- : Conforms iii) point linkage: Part 1 Categories 1, 2, 3 & 4 (fourth revision) [IS 4468 (Part-I):1997 (Reaffirmed in March, 2007)/ISO 730-1:1994] : Conforms iv) Drawbar for agricultural tractors - Link type llS 12953:1990 (Reaffirmed in March, 2007)] - Operator's seat technical v) Agricultural tractors : Not Applicable -1998 (First revision) requirement [IS 12343 (Reaffirmed in March, 2009)] Guide for safety & comfort of operator of agricultural : Does not conform vi) tractors: Part 1 General requirements (first revision) : (PT-1)-1996 (Reaffirmed in March, IIS 12239 2009)/ISO 4254-1:1989] Tractors and machinery for agriculture and forestry - : Conforms vii) Technical means for ensuring safety Part 2: Tractors (first revision) IS 12239 (PT-2)-1999 (Reaffirmed in March, 2009)] Tractors and machinery for agriculture and forestry, : Conforms viii) powered lawn and garden equipment - Symbols for operator controls and other displays [IS: 6283 (Part-1 & Part-2) -2006 & 2007(Reaffirmed in March, 2009)/ ISO 3767-2:1991)] ix) Guide lines for location and operation of operator : Conforms controls on agricultural tractors and machinery (first revision) (IS: 8133 - 1983) (Reaffirmed in March, 2009)] Agricultural Tractor & Machinery Lighting device for : Conforms X)
 - Agricultural Tractor & Machinery Lighting device for : Conforms travel on public roads (IS: 14683-1999) (Reaffirmed in March, 2009)]
- 13.4 Salient Observations:

13.4.1 Laboratory tests:

13.4.1.1 PTO Performance:

- i) The maximum power was recorded as 17.0 & 19.1 kW in case of previous & present sample respectively against the declaration of 18 kW, which meets the requirement of IS: 12207-2014 with regard to tolerance.
- ii) The specific fuel consumption corresponding to maximum power in case of previous and present sample was measured as 266 & 266 g/kWh respectively against the declaration of 260 g/kWh, which Does not meets the requirement of IS: 12207-2014 with regard to tolerance.
- iii) The percentage of backup torque was recorded as 20 & 20.3 % in case of previous & present sample respectively and meets the requirement of IS: 12207-2014 with regard to tolerance.

13.4.1.2 Drawbar Performance:

- The maximum drawbar power under unballasted condition was observed as 13.6 kW & 15.8 kW in case of previous & present sample respectively.
- The maximum drawbar pull under unballasted condition was observed as 10.55 kN & 10.36 kN in case of previous & present sample respectively.
- iii) The maximum drawbar pull under ballasted condition was observed as 13.38 kN & 13.46 kN in case of previous & present sample respectively.
- iv) During 10 hour drawbar test, the tyre creeping over rim of 15 mm & 55 mm nil & nil in case of previous & present sample respectively.

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The amplitude of mechanical vibration on various assemblies marked as (*) in Chapter-8 of this test report are on higher side specially at steering control wheel. Accelerator lever & brake pedals. This calls for dampening down of vibrations to improve the operational comfort and service life of components.

13.4.1.4 Three point linkage :

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IS:

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Some of the parameters of three point linkage conform to cat-I and some of them conforms to cat-II keeping in view the spirit of standardization, necessary improvements may be incorporated.

13.4.1.5 Symbol for operator's control and other displays :

- The fuel level gauge and hand brake are not identified with symbols as per 6283 :(part I & II)-1998. This should be looked into for necessary action.
- The color code for fuel gauge has not been provided as per 6283 :(part I& II)-1998. This should be looked into for necessary corrective action.

13.5 Maintenance / Service Problems:

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

13.6 Recommendation with regard to safety on tractor:

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

- Provision of spark arresting device in the exhaust system.
- Provision of hand holds for easy mounting & dismounting of the operator and width of step of foot pedal may be provided as per IS: 12239 (Part-1) – 1999.
- The working clearance around the hydraulic position control lever and seat may be provided as per IS: 12239 (Part-2) – 1999.

13.7 Adequacy of Literature supplied with machine:

- 13.7.1 The following literature was supplied with the tractor for reference during the test.
 - a) Operator's Manual for OX-25 ORCHARD DLX model of tractor.
 - b) Spare Parts Catalogue for OX-25 ORCHARD DLX model of tractor.
 - c) Work shop manual OX-25 ORCHARD DLX model of tractor.
- 13.7.2 The supplied literature was not found adequate as it does not covers the following information. Therefore, it is recommended that relevant literature may be updated by incorporating the following information:
 - i) Information related to PTO, Drawbar and hydraulic performance of the tractor such as, rated PTO power, maximum torque, backup torque, specific fuel consumption, maximum drawbar power & pull, hydraulic pump discharge rate, hydraulic power & lifting capacities etc should be included in the technical specification of the tractor for the guidance of the user's.
 - Information on variant models & their feature at a glance shall also be included in the operator's manual.
- 13.7.3 Therefore, it is recommended that operator's manual and workshop manual may be brought out as per IS: 8132-1999 (Reaffirmed in 2009) for the guidance of users and service personnel in national as well as regional languages by inclusion of the above information among the others



14. CITIZEN CHARTER

| Time frame for Testing & Evaluation as per Citizen Charter | Duration of Test | Whether the Test Report is released within the time frame given in Citizen Charter | Remarks |
|--|--|--|--|
| 10 Months | 12 Months (March, 2015 to April, 2016) | No | Seasonal delay (rain season durin transmission runnin in) |

TESTING AUTHORITY:

PRAMOD YADAV AGRICULTURAL ENGINEER

PARDIP KUMAR C. MESHRAM SENIOR AGRICULTURAL ENGINEER

C.R.LOHI DIRECTOR

15. APPLICANT'S COMMENTS

| Para No. | Our Reference | Applicant's comments | | | | |
|----------------------------|------------------------------|--|--|--|--|--|
| 15.1 1.20.2 and 12.1.8 ix) | | We will ensure conformation in series production | | | | |
| 15.2 | 1.20.4 | We have noted the point and care will be taken establish the compliance. | | | | |
| 15.3 | 1.20.1,12.1.8 v) and 13.3 v) | We will ensure the dimensional conformation and se production. | | | | |

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| T- 1007/1531/2016 | FORCE | MOTORS | LTD, | OX-25 | ORCHARD | DLX | TRACTOR | - |
|-------------------|-------|--------------|---------|--------------|---------|-----|---------|---|
| | Comme | rcial (Batch | n Test) | | | | | 6 |

ANNEXURE - I

| A. | LABORATORY AND TRACK TESTS: | HOURS |
|----|---|-------|
| 1. | Running-in | 87.9 |
| 2. | PTO performance test | 10.8 |
| 3. | Power lift and hydraulic pump performance test | 1.3 |
| 4. | Drawbar performance test | 16.3 |
| 5. | Brake test | 3,3 |
| 6. | Noise measurement | 1.5 |
| 7. | Mechanical vibration test | 1.0 |
| 8. | Air cleaner oil pull over test | |
| 9. | Theoretical speed test | 0.6 |
| | HAULAGE TEST: | 5.7 |
| D. | Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test | 6.4 |
| | TOTAL: | 134.8 |

TRACTOR RUN HOURS DURING TEST

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(rain) during nning