



**PREET 6549 TRACTOR**



**भारत सरकार**

**GOVERNMENT OF INDIA**

कृषि मंत्रालय (कृषि एवं सहकारिता विभाग, मशीनीकरण एवं प्रौद्योगिकी प्रभाग)

Ministry of Agriculture (Deptt. of Agri. & Co-op, Mechanization & Technology Division)

**केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान**

**CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE**

**(An ISO : 9001-2008 Certified Institute)**

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Manufacturer : M/s. Preet Tractors Pvt. Ltd.  
Post Box No. 28,  
Patiala Road, Nabha-147 201 (Punjab)

Test requested by : The manufacturer

Duration of running-in, (h):

- Engine : 32
- Transmission : 25

**Method of Selection:** : The test sample was selected by the applicant hence method of selection is not known.

### 1. SPECIFICATIONS

- 1.1 Tractor:**
- Make : PREET
  - Model : 6549
  - Variants : - Not Declared
  - Brand name : N.A.
  - Type : Four wheeled, rear-wheel drive, standard, agricultural tractor.
  - Year of manufacture : 2014
  - Chassis number : BCK 6500003
  - Country of origin : India
- 1.2 Engine:**
- Make : PREET
  - Model : 6549
  - Type : Four stroke, water cooled, direct injection naturally aspirated diesel engine.
- 1.2.1 Engine Serial number** : P 465 00007
- 1.2.1 Engine speed (Manufacturer's recommended production setting), (rpm):**
- Maximum speed at no load : 2350 to 2450
  - Low idle speed : 600 to 700
  - Speed at max. torque : 1200 to 1400
- Rated speed, (rpm):**
- For PTO use : 2200
  - For drawbar use : 2200
- 1.3 Cylinder & Cylinder Head:**
- Number : Four
  - Disposition : Vertical, inline
  - Bore/stroke, (mm) : 105/ 118
  - Capacity as specified by the applicant, (cc) : 4088 (apa)
  - Compression ratio : 18.5 : 1
  - Type of cylinder head : Individual
  - Type of cylinder liners : Wet, replaceable
  - Type of combustion chamber : Re-entrant cavity on piston crown
  - Arrangement of valves : Overhead, Inline
  - Valve clearance (mm)** : **(Cold)** **(Hot):**
  - Inlet valve : 0.30 0.30
  - Exhaust valve : 0.40 0.40

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## 16. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

**16.1** Evaluative (mandatory) / Non-evaluation (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.	Characteristic	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2008	Values declared by the applicant/ requirement	As observed	Whether meets the requirements (Yes/No.)
1	2	3	4	5	6	7
<b>16.1.1</b>	<b>PTO Performance :</b>					
a)	- Max. 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 kW. -7.5/+10% for PTO power ≤ 26 kW or -5 / +10% for Engine power >26 kW. -7.5/+10% for Engine power ≤ 26 kW	42.0	41.1	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	42.0	40.2	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Non Evaluative	± 5%	280	276	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	± 8%	250	229.53	<b>No</b>
e)	Back-up torque, percent	Non Evaluative	10 percent, min.	20 (D)	22.74	Yes
f)	<b>Maximum operating temperature (°C)</b>					
	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.	120	126	<b>No</b>
	2) Coolant (water)	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	109	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. power under High ambient conditions	2.76 (R) 2 (D)	0.61	Yes
h)	Smoke level	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 (R)	0.32 (per meter)	Yes

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1	2	3	4	5	6	7	
<b>16.1.2</b>	<b>Drawbar performance :</b>						
a)	Max. drawbar pull with ballast corresponding to 15 percent wheel slip, (kN)	Non Evaluative	Minimum 65% of static mass with ballast	21.04 (R) 25.0 (D)	27.0	Yes	
b)	Max. drawbar pull with un-ballasted corresponding to 15 percent wheel slip, (kN)	Evaluative	Minimum 65% of static mass of tractor without ballast/ with standard ballast	14.79 (R) 17.0 (D)	18.0	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.	32.9 (R) 34.0(D)	33.0	Yes	
d)	Maximum transmission oil temperature (°C)	Non Evaluative	The declared value should not exceed the maximum value specified by oil company	90 (D)	89	Yes	
<b>16.1.3</b>	<b>Power lift and hydraulic pump performance:</b>						
a)	Maximum lifting capacity throughout the range of lift, (kN):						
	1)	At hitch points	Non Evaluative	[Tolerance of minus 10%]	17.5 (D)	14.3	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	9.67 (R) 13.0 (D)	14.2	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	The observed value should not exceed 50 mm	50 (D)	65	<b>No</b>
<b>16.1.4</b>	<b>Brake performance at 25 kmph:</b>						
a)	Maximum stopping distance at a force, equal to or less than 600 N on brake pedal with ballast, (m):						
	1)	Cold brake	Evaluative	10	10	6.37	Yes
	2)	Hot brake	Evaluative	10	10	6.47	Yes
b)	Maximum force exerted on the brake pedal to achieve a deceleration of 2.5 m/s <sup>2</sup> (N)		Evaluative	600	600	142 to 163	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
<b>16.1.5</b>	<b>Noise measurement :</b>					
a)	Maximum ambient noise emitted by the tractor dB(A)	Evaluative	As per CMVR	88	84	Yes
b)	Maximum noise at operator's ear level dB(A)	Evaluative	As per CMVR	98	94	Yes
<b>16.1.6</b>	<b>Amplitude of mechanical vibrations at :</b>					
	1) Right foot rest	Non Evaluative	100 microns (max.)	100 micron (max)	210	<b>No</b>
	left foot rest				170	<b>No</b>
	2) Seat (with driver seated)				70	Yes
	3) Steering control wheel				220	<b>No</b>
<b>16.1.7</b>	<b>Haulage requirements :</b>					
a)	Gross mass of the trailers, (tones):					
	1) Two wheel	Non	--	5.0	5.0	Yes
	2) Four wheel	Evaluative	--	8.0	8.0	Yes
b)	Distance travelled / litre of fuel consumption, (km/l):					
	1) Two wheel	Non	--	7.0	5.22	<b>No</b>
	2) Four wheel	Evaluative	--	7.0	4.10	<b>No</b>
c)	Fuel consumption (ml/km/tonne):					
	1) Two wheel	Non Evaluative	--	35.0	30.87 to 33.09	Yes
	2) Four wheel		--	35.0	30.64 to 31.57	Yes
<b>16.1.8</b>	<b>Wetland cultivation :</b>					
	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.	The manufacturer has recommended that the tractor is not suitable for wetland cultivation	Manufacture has not recommended the tractor for puddling operation. Hence the puddling test was not conducted	Not applicable
	1) Clutch assembly	-do-				
	2) Brake housings	-do-				
	3) Front axle hubs	-do-				
	4) Engine Oil	-do-				
	5) Transmission Oil	-do-				
<b>16.1.9</b>	<b>Safety features :</b>					
a)	Guards against moving and hot parts	Evaluative	Belt drives, pulley, silencer, hydraulic pipes (As per IS 12239 part 2)	Conforms	Conforms*	Yes
<b>*Remark:</b> The guards against moving and hot parts are not fully guarded. The year of manufacturer of the test sample is before the date of implementation of relevant IS 12207-2014. Therefore, for prospective effects of implementation of Indian standard this conforms to IS 12239 (Part 2) – 1999 (Reaffirmed in March, 2009).						
b)	Lighting arrangement	Evaluative	As per CMVR	--	Conforms	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)	--	Conforms	Yes
d)	Technical requirements for PTO shaft	Non Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)	--	Does not Meet the requirements	<b>No</b>

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1	2	3	4	5	6	7
e)	Dimensions of three point linkage	Non Evaluative	Should meet the requirements of IS: 4468 (Part-I) (As amended from time to time)	--	Meet the requirements	Yes
f)	Specifications of linkage	Non Evaluative	Should meet the requirements of IS 12953 and IS 12362 (Part 3) (As amended from time to time)	--	Meet the requirements	Yes
	Swinging drawbar				Not Provided	Not applicable
<b>16.1.10</b>	<b>Labelling of tractors (Provision of labelling plate):</b>					
	1) Make	Evaluative	Should conform to the requirements of CMVR along-with declared value of PTO HP	--	PREET	Yes
	2) Model	Evaluative		--	6549	Yes
	3) Year of manufacture	Evaluative		--	2014	Yes
	4) Engine number	Evaluative		--	P465 00007	Yes
	5) Chas-sis number	Evaluative		--	BCK 6500003	Yes
	6) Declaration of PTO power, (kW)	Evaluative		--	42.0	Yes
<b>16.1.11</b>	<b>Discard limit for:</b>					
(a)	Cylinder bore diameter, (mm)	Evaluative	To be declared by the manufacturer	105.4	105.05 to 105.07	Yes
(b)	Clearance between piston & cylinder liner at skirt, (mm)	Non Evaluative	-do-	0.78	0.154 to 0.174	Yes
(c)	<b>Ring end gap (mm):</b>					
	- Top comp. ring.	Evaluative	-do-	2.0	0.40 to 0.45	Yes
	- 2 <sup>nd</sup> comp. ring.		-do-	2.0	0.80 to 0.85	Yes
	- Oil ring.		-do-	2.0	0.55 to 0.65	Yes
(d)	<b>Ring groove clearance (mm):</b>					
	- Top comp. ring.	Evaluative	-do-	0.35	Tapered	--
	- 2 <sup>nd</sup> comp. ring.		-do-	0.35	0.067 to 0.075	Yes
	- Oil ring.		-do-	0.35	0.034 to 0.041	Yes
(e)	<b>Clearance of main bearings (mm):</b>					
	- Diametrical clearance	Evaluative	-do-	0.90	0.086 to 0.135	Yes
	- Crankshaft end float	Evaluative	-do-	1.00	0.15	Yes
(f)	<b>Clearance of big end bearings, (mm):</b>					
	- Diametrical	Evaluative	To be declared by the manufacturer	0.90	0.094 to 0.124	Yes
	- Axial	Evaluative	-do-	1.00	0.20 to 0.25	Yes
(g)	Clearance between king pin and bush, (mm)	Non Evaluative	-do-	0.40	0.083 to 0.106	Yes
(h)	Clearance between center pin and bush, (mm)	Non Evaluative	-do-	0.40	0.197 to 0.287	Yes

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<b>16.1.12 Literature (Submission to test agency)</b>						
<b>(a)</b>	Operator manual	Evaluative	Provided/Not Provided	As per relevant IS Code (IS 8132)	Provided	Yes
<b>(b)</b>	Parts Catalogue	Evaluative	Provided/Not Provided	As per relevant IS Code (IS 8132)	Provided	Yes
<b>(c)</b>	Workshop/ Service manual	Evaluative	Provided/Not Provided	As per relevant IS Code (IS 8132)	Provided	Yes
<b>16.1.13 CATEGORY OF BREAKDOWNS / DEFECTS :</b>						
Sl. No.	Category of breakdowns	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2014	As observed	Whether meets the requirements (Yes/No.)	
1.	Critical	Evaluative	No critical breakdown	<b>None</b>	Yes	
2.	Major	Evaluative	Not more than two and neither of them should be repetitive in nature	<b>one</b>	Yes	
3.	Minor	Evaluative	Not more than five and frequency of each should not be more than two.	<b>One (Mn9)</b>	Yes	
4.	Total breakdowns	Evaluative	In no case, the total number of breakdowns should exceed five, that is, (2 major + 3 minor) or 5 minor breakdowns	<b>One</b>	Yes	

<b>16.2 Optional requirements as per Clause-4 (Table-2) of IS:12207-2014:</b>				
S. No.	Characteristic	Requirements as per IS: 12207-2014	AS observed	Remarks
1	2	3	4	5
1	Air cleaner oil pull over, max. oil pull over (%)	0.25% (max.)	Dry type	..
2.	Seating requirements	Should meet the requirements of IS: 12343-1998	Conforms	Yes
3.	Fitment of ROPS	With a provision for fitment of ROPS. If ROPS fitted it should meet the requirement of IS: 11821-1992	Not provided	--
4.	Technical requirements for PTO shaft & its Master shield	Should meet the requirements of IS: 4931 -1995	Does not conform	<b>No</b>
5.	Dimensions of three point linkage	Should meet the requirements of IS: 4468 (Part-I)-1997	Does not conform	<b>No</b>
6.	Specifications of linkage drawbar.	Should meet the requirements of IS: 12953-1990	Conforms	Yes
7.	Specifications of swinging drawbar	Should meet the requirements of IS:12362 Part 3-1994.	Not provided	--
8.	Accessories	Trailer hitch, front tow hook, linkage drawbar may be provided.	Provided	Yes

**16.3 Conformity with following Indian Standard:**

- i) Guidelines for declaration of power and specific fuel consumption and labeling of agricultural tractors (First revision) [IS: 10273-1987 (Reaffirmed in March, 2009)] : Conforms
- ii) Agricultural tractors – Rear mounted power take-off - Types 1, 2 and 3(third revision)[IS: 4931-1995 (Reaffirmed in March, 2009)] : **Does not conform**
- iii) Agricultural wheeled tractors - Rear mounted three-point linkage: Part 1 Categories 1, 2, 3 & 4 (fourth revision) [IS 4468 (Part-I):1997 (Reaffirmed in March, 2007)/ISO 730-1:1994] : **Does not conform**
- iv) Drawbar for agricultural tractors – Link type [IS 12953:1990 (Reaffirmed in March, 2007)]. : Conforms
- v) Agricultural tractors – Operator's seat technical requirement [IS 12343 –1998 (First revision) (Reaffirmed in March, 2009)]. : Conforms
- vi) Guide for safety & comfort of operator of agricultural tractors: Part 1 General requirements (first revision) : [IS 12239 (PT-1)-1996 (Reaffirmed in March, 2009)/ISO 4254-1:1989]. : **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 March, 2009)]. : **Does not conform**
- viii) Tractors and machinery for agriculture and forestry, 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]]. : **Does not conform**
- ix) Guide lines for location and operation of operator controls on agricultural tractors and machinery (first revision) (IS: 8133 – 1983) (Reaffirmed in March, 2009)]. : **Does not conform**
- x) Agricultural Tractor & Machinery Lighting device for travel on public roads (IS: 14683-1999) (Reaffirmed in March, 2009)] : Conforms

**16.4 Salient Observations:****16.4.1 Laboratory tests:****16.4.1.1 PTO Performance:**

- i) The backup torque is 22.74 %.
- ii) Maximum equivalent crankshaft torque, was observed as 229.53 Nm against the declared value of 250 Nm, which is in lower side and not under the tolerance limit. This should be looked into for necessary correction.
- iii) The specific fuel consumption corresponding to maximum power was observed as 276 g/kWh against the specified value of 280 g/kWh which is within the specified limit



- iv) Maximum oil temperature during 2 hrs max power test in higher ambient condition approached to 126 °C against the declaration of 120 °C, which is on higher side .This should be looked into for necessary correction.
- v) Maximum coolant temperature during full load varying speed test in higher ambient condition approached to 109 °C against the declaration of 110 °C, this should be looked into for safety point of view of the engine.

**16.4.1.2 Drawbar Performance :**

- i) During 10 hrs test Maximum transmission oil temperature approaches to 89 °C which is very close to its discard limit .It should be looked into for necessary corrective action.
- ii) During ten hours drawbar test, creeping of LHS & RHS rear tyre over the rims was observed as 41 mm & 40 mm respectively. This should be looked into for necessary corrective action.

**16.4.1.3 Hydraulic Performance:**

- i) Total drop in height of lift during lift load maintenance test was recorded as 65 mm against the declaration of 50 mm. This should be looked into.

**16.4.1.4 Mechanical Vibration:**

The amplitude of mechanical vibration marked as (\*) in chapter-9 of this report is on higher side especially at LHS & RHS foot rest & steering control wheel, brake & clutch pedals . This calls for reduction in amplitude of vibration in view of improving service life of the component(s) and the operator's comfort.

**16.4.1.5 Three point Linkage :**

- i) The lateral distance from lower hitch point to the centre line of tractor does not meet the requirement of As per IS: 4468-(Part-1) -1997.This should be looked into for corrective action.
- ii) Some of the parameters conform to Category-I and some of them conform to Category-II. Keeping in the view of the spirit of standardization necessary improvement may be incorporated.

**16.4.1.6 Linkage drawbar:**

All dimension of linkage drawbar meets the requirement of As per IS: 12953-1995

**16.4.1.7 PTO Master shield:**

PTO master shield not provided on tractor as per the requirements of IS: 4931-1995. This should be looked into.

**16.4.1.8 Location and movement of operator's controls:**

Location and movement of operator's controls such as Safety against accidental start of the engine, fuel shut-off knob does not meet the requirement of **IS:8133-1983 (Re-affirmed in March, 2009)**:. This should be looked into for corrective action.

**16.4.2 Field performance:**

**16.4.2.1 Wet land cultivation (Puddling Operation):**

The manufacturer has recommended that the tractor is not suitable for wetland cultivation (puddling operation) and therefore, the wetland cultivation (puddling operation) was not conducted. It is recommended that in all the literature this fact that the tractor is not suitable for wetland (puddling) operation should be mentioned clearly & boldly in all the relevant literature of the tractor & also a cautionary notice regarding non-suitability of tractor for puddling operation may be displayed on the bonnet of the tractor.

**16.5 Maintenance / Service Problems:**

Noticeable maintenance or service problems, observed during the test, have been tabled in chapter no.14. Therefore, it should be looked into for necessary quality improvement.

**16.6 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 the exhaust system.
- ii) Safety against the accidental start of the engine.
- iii) The fuel shut-off lever does not remain in "STOP" position.
- iv) Hydraulic pipe lines should be fully protected.
- v) The working clearance between the draft control lever & mud guard may be provided as per **IS:12239 (Part-2)-1999**
- vi) Provision of differential lock.

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

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

- a) Operator's -cum- service Book (For Preet 6549, Preet 3549 Challenger, Preet 4549 T-III A, & Preet 955 tractors)
- b) Spare parts catalogue (For Preet 6549, 3549 Challenger, 4549 T -III A, 955 & tractors)
- c) Service Manual (For Preet 6549, Preet 3549 Challenger, Preet 4549 Challenger, & Preet 955 Challenger tractors)

**16.7.1** The operator's manual may be revised as per IS: 8132-1999 (Reaffirmed in Oct.2004) with inclusion of inter alia, the following;

- i) Fuel saving tips
- ii) Gross mass of trailer & safe hitch height, while using trailer.
- iii) Recommendation regarding matching implements.
- iv) Corrections with regard to recommended lubricants.

**17. 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	11 Months (March 2014 to January 2015)	No	Due to break down /defects occurred during PTO & Drawbar performance tests

**TESTING AUTHORITY:**

**H.L. YADAV**  
SENIOR AGRICULTURAL ENGINEER

**C. R. LOHI**  
DIRECTOR

Test Report compiled by: Sh. Nitesh Kumar Verma, Senior Technical Assistant.

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### 18. Applicant's Comments

Para No.	Our Reference	Applicant's comments
18.1	1.13.2 (iii),	Care to be taken during production of tractors
18.2	16.1.1 (f),	We have discussed with oil supplier, there is no any issue if engine oil approaches at 130 °C.
18.3	16.2 (Sr.No. 5)	Care to be taken during production of tractors We will look into for corrective action.

### APPENDIX - I

#### BRIEF SPECIFICATION OF IMPLEMENTS USED DURING FIELD TEST

S. No.	I t e m	Rotavator	Disc Plough
1.	Make	PREET	PREET
2.	Type	Mounted	Mounted
3.	No. of blades/bottoms, (mm)	48, in 8 flanges	Three
4.	Type of blades/ bottoms, (mm)	L shape	Concave
5.	Size of blades/ bottoms, (mm)	240 X 80 X 7	645
6.	Spacing of blades / bottoms, (mm)	240	575
7.	Lower hitch point span, (mm)	780	760
8.	Mast height, (mm)	575	600
9.	<b>Overall dimensions, (mm):</b>		
	- Length	2275	2400
	- Width	1130	1040
	- Height	1032	1220
10.	Gross mass, (kg)	460	390

### APPENDIX - II

#### TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	--
2.	PTO performance test	12.0
3.	Power lift and hydraulic pump performance test	3.67
4.	Drawbar performance test	16.73
5.	Turning ability	0.2
6.	Location of centre of gravity	0.2
7.	Operator's field of vision	Nil
8.	Brake test	1.82
9.	Noise measurement	1.91
10.	Mechanical vibration test	1.0
11.	Nominal speed test	0.67
<b>B.</b>	<b>FIELD TEST:</b>	
1.	Rotavation	15.3
2.	Disc Ploughing	20.3
<b>C.</b>	<b>HAULAGE TEST:</b>	5.25
<b>D.</b>	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	14.97
	<b>TOTAL:</b>	<b>94.02</b>