

व्यावसायिक परीक्षण रिपोर्ट (प्रथम बैच)

संख्या/No. : T-1733/2264/2023

COMMERCIAL TEST REPORT (1st Batch)

माह/Month : May, 2023

Application Reference No. 28/2022-23/63

(यह परीक्षण रिपोर्ट 31/05/2030 तक वैध है / THIS TEST REPORT IS VALID UPTO 31/05/2030)



Make of Agricultural Tractor : Indo Farm
Model : 3048 DI C-Mesh
Manufactured by : M/s. Indo Farm Equipment Ltd.
EPIP-II, Village-Thana, Baddi – 173 205,
Distt. Solan, Himachal Pradesh



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

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T-1733/2264/2023	INDO FARM, 3048 DI C-MESH TRACTOR– Commercial (1 st Batch)
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IMPORTANT INFORMATION

The Government of India, Ministry of Agriculture and Farmers' Welfare has directed, vide a OM No. 13-17/2021-M&T(I&P) dated 28.07.2022, that since 15th August, 2022, only mandatory tests will be carried out on a tractor unless applicant has expressly requested for optional tests as well, mentioned in the above captioned OM.

In the instant case, there is no request from the applicant to carry out the optional tests hence only Mandatory Tests, as given below, have been conducted and reported in this report:-

1. PTO performance
2. Hydraulic performance
3. Drawbar performance
4. Brake performance

Month: May	Test Report No.: T-1733/2264/2023	Year: 2023
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[C]	Manufacturer	:	M/s. Indo Farm Equipment Ltd. EPIP-II, Village-Thana, Baddi – 173 205, Distt. Solan, Himachal Pradesh
[D]	Location of other manufacturing plants (apa)	:	Not announced
[C]	Submitted for test by (Applicant)	:	The Manufacturer
[C]	Selected for test by	:	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 :

		S.No.	Chassis Number
		i)	JPP30482WD04200CM
		ii)	JPP30482WD04198CM
		iii)	JPP30482WD04196CM
		iv)	JPP30482WD04197CM
		v)	JPP30482WD04199CM
[D]	Place of running-in	:	At manufacturer's works
[D]	Duration of running-in, (h):		
	-Engine	:	05
	-Transmission	:	10
[C]	Location of test	:	Government of India, Central Farm Machinery Training and Testing Institute, P.O. - Tractor Nagar, BUDNI – 466445 (M.P.), INDIA

1. SPECIFICATIONS OF TRACTOR

1.1	Identification:		
1.1.1	Denomination		
[C]	Make of tractor	:	Indo Farm
[C]	Model (trade name)	:	3048 DI C-Mesh
[C]	Type	:	Rear Wheel Drive, Standard Agricultural Tractor.
[C]	Month & year of manufacture	:	10/22
[D]	Country of origin	:	India
1.1.2	Numbers:		
[D]	1 st Serial No. or prototype	:	DNW30482WD00001CM
[C]	Serial No.	:	JPP30482WD04198CM
1.2	Engine:		
[D]	Manufacturer's address	:	M/s. Indo Farm Equipment Ltd. EPIP-II, Village-Thana, Baddi – 173 205, Distt. Solan, Himachal Pradesh
[C]	Make	:	Indo Farm
[C]	Model	:	Indo Farm 3052 (apa)
[C]	Type	:	Four stroke, naturally aspirated, liquid cooled, direct injection, diesel engine.
[C]	Serial No.	:	C328615127PP
1.2.1	Cylinders:		
[C]	Number/disposition	:	Three / Vertical
[D]	Bore / Stroke, (mm)	:	105 / 110
[D]	Capacity, cm ³	:	2858
[D]	Compression ratio	:	19.0 ±0.5 : 1
[D]	Arrangement of valves	:	Overhead

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6.3 Adequacy of literature:

Following literatures has been supplied with the tractor for reference during the test.

<u>Previous sample</u>	<u>Present sample</u>
i) Operator & service manual for Indo Farm 3090 DI, 3075 DI, 3065 DI, 3055 NV, 3048 DI, 3040 DI, 3035 DI (C-MESH TRACTOR SERIES – 2WD/4WD) tractor models	i) Operator's manual for Indo Farm 3090 DI, 3075 DI, 3065 DI, 3055 NV, 3048 DI, 3040 DI, 3035 DI (C-MESH TRACTOR SERIES – 2WD/4WD) tractor models
ii) Workshop manual for Indo Farm 3035 DI C-Mesh, 3048 DI C-Mesh, 3055 DI C-Mesh & 3065 DI C-Mesh (C-MESH TRACTOR SERIES – 2WD/4WD) tractor models	ii) Workshop manual for Indo Farm 3065 DI, 3055 DI, 3055 NV, 3048 DI, 3040 DI, 3035 DI (C-MESH TRACTOR SERIES – 2WD/4WD) tractor models
iii) Spare parts catalogue for Indo Farm 3035 DI, 3040 DI (2WD), 3048 DI, 3055 NV, 3055 DI, 3065 DI, 3075 DI, 3090 DI (2WD/4WD) (C-MESH TRACTOR SERIES – 2WD/4WD) tractor models	iii) Spare parts catalogue for Indo Farm 3035 DI, 3040 DI (2WD), 3048 DI, 3055 NV, 3055 DI, 3065 DI, 3075 DI, 3090 DI (2WD/4WD) (3 SERIES C-MESH TRACTORS) tractor models

7. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

7.1 On the basis of tests 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: 12207-2022 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: 12207-2022	Values declared by the applicant/ (D) Requirement (R)	As observed	Whether meets the requirements (Yes/No)
1	2	3	4	5	6	7
MANDATORY TESTS: (As per Ministry's Office Memorandum No. 13-17/2021-M&T (I&P) dated 28th of July, 2022).						
7.1.1	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.	33.5 (D)	33.1	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	33.5 (D)	33.1	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	Should not be more than 10% of declared value	280 (D)	289	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	$\pm 8\%$	176 (D)	187.8	Yes
e)	Back-up torque, percent	Evaluative	Should be minimum 12 percent	17.6 (D) 12 (R)	30.8	Yes

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1	2	3	4	5	6	7	
f)	Maximum operating temperature, (°C):						
	1)	Engine oil	Evaluative	The declared value should not exceed the <i>Max</i> value specified by the oil company and the observed value under natural ambient/high ambient condition should not exceed the declaration	120 (D)	117	Yes
	2)	Coolant	Evaluative	Observed value should not exceed the declared value or boiling point of coolant at radiator cap pressure whichever is lower. The boiling point of the coolant at radiator pressure shall be provided by the applicant.	110 (D)	105	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	The value would be based on the test conducted under natural ambient condition	2.70 Maximum (R)	0.53	Yes	
h)	Smoke level, m ⁻¹	Evaluative	Max Smoke level shall be reported out of 6 readings tested as per IS 12062 and observed value should be well within the required limits.	3.25 per meter Maximum (R)	0.23	Yes	
7.1.2	Drawbar performance:						
a)	Maximum drawbar pull with ballast or with standard ballast corresponding to 15% wheel slip or 7% track slip, (kN)	Non Evaluative	Min 70% of static mass of tractor with ballast	20.08 (D)	22.63	Yes	
				20.48 (R) Minimum			
b)	Maximum drawbar pull without ballast or with standard ballast corresponding to 15% wheel slip or 7% track slip, (kN)	Evaluative	In case of tractors having total static mass ≥ 1 5 00 kg, Min 70% of static mass of tractor without ballast or with standard ballast, as the case may be. In case of light weight tractors having ≤ 1 500 kg total static mass of tractor, Min. 65% of static mass of tractor without ballast or with standard ballast, as the case may be.	14.59 (D)	15.43	Yes	
				14.43 (R) Minimum			
c)	Maximum drawbar power without ballast or with standard ballast as the case may be, kW	Evaluative	Min 80% of PTO power as referred in SI No. i) a) of PTO performance in case of tractors having total static mass > 1 500 kg. Min 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. Min 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.	26.8 (D)	27.0	Yes	
				26.5 (R) Minimum			
d)	For tractors fitted with air conditioned /heated cabin: Maximum drawbar power without ballast, or with standard ballast as the case may be, kW	Evaluative	Min 70% of PTO power as referred in SI No. i) a) of PTO performance in case of tractors having total static mass > 1 500 Kg.	Not fitted	Not fitted	Not applicable	

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1	2	3	4	5	6	7
e)	Maximum transmission oil temperature, (°C)	Evaluative	The declared value should not exceed the recommendation by the oil manufacturer. The observed value should not exceed the declared value throughout the drawbar test.	120 (D)	75	Yes
7.1.3	Power lift and hydraulic pump performance:					
a)	Maximum lifting capacity throughout the range of lift, (kN):					
	1) At hitch points	Evaluative	Should not be less than 90% of declared value.	13.70 (D)	12.97	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.	10.20 (D) 7.79 (R) Minimum	10.77	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	49.0 (D) Maximum 50 (R) Maximum	380 touch the ground surfaces)	No
7.1.4	Brake performance at 25 kmph:					
a)	Maximum stopping distance at a force, equal to or less than 600 N on brake pedal without ballast, (m):					
	1) Cold brake	Evaluative	10	10 (R)	7.71	Yes
	2) Hot brake	Evaluative	10	10 (R)	7.98	Yes
b)	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
7.1.5	OPTIONAL TESTS: As the applicant has not applied for any optional tests, therefore no optional tests was conducted.					
7.1.6	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	Non 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-1) (As amended from time to time)	Does not meet the requirement		No
f)	Specifications of linkage drawbar	Non Evaluative	Should meet the requirements of IS: 12953 (As amended from time to time)	Meets the requirement		Yes
g)	Specifications of Swinging drawbar (wherever fitted)	Non Evaluative	Should meet the requirement of IS: 12362 (Part-3) (As amended from time to time)	Not provided		Not applicable

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1	2	3	4	5	6	7
h)	Audible warning signal on tractor	Evaluative	If tractor travel speed in reverse gear exceeds 20 kmph, an audible warning signal on tractor shall get activated. A sticker to the effect that “operating the tractor beyond 20 kmph speed in reverse gear is not safe” should be prominently displayed.	13.62 kmph		Not applicable
7.1.7	Labelling of tractors (Provision of labelling plate):					
	1) Make	Evaluative	Should conform to the requirements of CMVR along-with declared value of PTO in kW, Specific fuel consumption (SFC) corresponding to maximum power in g/kWh and year of manufacture in numerical form MM YY Digit 01-12 in box No. 1 for MM will represent the month and next two digit in the box No. 2 for YY will represent the year of manufacturing	INDO FARM		Yes
	2) Model	Evaluative		3048 DI C-MESH		Yes
	3) Month & Year of manufacture	Evaluative		10/22		Yes
	4) Engine number	Evaluative		C328615127PP		Yes
	5) Chassis number	Evaluative		JPP30482WD041 98CM		Yes
	6) Maximum PTO power, (kW)	Evaluative		33.5		Yes
	7) Specific fuel consumption, g/kWh	Evaluative		280		Yes
7.1.8	Literature (Submission to test agency):					
(a)	Operator manual	Evaluative	The printed literature in booklet form should be provided as per IS 8132 and should submit along with the test sample.	Provided		Yes
(b)	Parts Catalogue	Evaluative		Provided		Yes
(c)	Workshop/ Service manual	Evaluative		Provided		Yes
7.1.9	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
7.1.10	Standard Accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor	Provided		Yes
7.1.11	Accessories (optional)	Non Evaluative	Ballast weight, if fitted, should meet the requirement of CMVR	Not fitted		Not applicable
7.2	CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2022):					
S. No.	Category of break-downs	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2022	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 breakdown.	None		Yes
3.	Minor	Evaluative	There are not more than 3 minor defects during the test and neither of them should of repetitive nature.	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

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7.3 Conformity with following IS:

- i) Guidelines for declaration of power and specific fuel consumption and labeling of agricultural tractors (First revision) [IS:10273 -1987 (Reaffirmed Year 2019)] : **Conforms**
- ii) Agricultural tractors - Rear mounted power take-off - Types 1, 2 and 3 (third revision) [IS:4931-1995 (Reaffirmed Year 2019)] : **Conforms**
- iii) Agricultural wheeled tractors – Rear mounted three-point linkage: Part 1 Categories 1, 2, 3 & 4 (fourth revision) [IS:4468 (Part-1) – 1997 (Reaffirmed Year 2017)] : **Does not conform**
- iv) Drawbar for agricultural tractors – Link type [IS 12953:1990 (Reaffirmed Year 2022)] : **Conforms**
- v) Agricultural tractors- Operator’s seat technical requirement [IS12343 - 2021] : **Does not conform**
- vi) Guide for safety & comfort of operator of agricultural tractors:Part 1 General requirements (first revision):[IS 12239 (Part 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 (Part 2) 1999) (Reaffirmed Year 2019)] : **Does not conform**
- viii) Guide lines for location and operation of operator controls on agricultural tractors and machinery [IS: 8133 - 2021] : **Does not conform**
- ix) Tractors and machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays Part2 Symbols for agricultural tractors and machinery [IS: 6283(Part-1) - 2006 (Reaffirmed Year 2019) and IS: 6283 (Part-2) – 2007 (Reaffirmed Year 2019)] : **Does not conform**
- x) Agricultural Tractors and Machinery-Lighting device for travel on public roads (IS:14683-1999) (Reaffirmed Year 2019)] : **Conforms**

7.4 Salient Observations:

7.4.1 Laboratory tests:

7.4.1.1 PTO performance test:

During the PTO performance test at full load and varying speed under high ambient condition, it was observed that 500 ml of coolant was spilled over from the expansion flask. Thereafter coolant was filled up to level mark and further test was carried out. This should be looked into for necessary corrective action.

7.4.1.2 Power lift & hydraulic pump performance test:

During the warming up of maintenance of lift load test of hydraulic system, continuous jerks were noticed in the hydraulic lift. While conducting the test, hydraulic lift was fully dropped to the ground surface within 01 minutes time. Upon which applicant vide letter No. IF/3048DICM/Batch/2023/7, dated 22.03.2023 has requested for checking and cleaning of relief valves and RV-check valve; O-ring checking, control valve cleaning and checking & cleaning of hydraulic oil, which was allowed.

Applicant vide letter No. IF/3048DICM/Batch/2023/8, dated 11.04.2023 has requested for cleaning of hydraulic system and fitting the same components as in his letter he has stated that, there found no breakage/abnormality in the components of hydraulic system, which was allowed. After carrying out the above repair work, the tractor was checked but the defect could not be resolved.

Applicant vide letter No. IF/3048DICM/Batch/2023/9, dated 17.04.2023 has requested for checking pressure of RV relief valve and hydraulic cylinder relief valve; control valve O-rings to be checked for cut or damage; piston seal to be checked for cut or damage & RV check valve & RV bottom face’s O-rings to be checked for cut or damage, which was not accepted and communicated to the applicant vide letter No. 2-52/2022-Test, dated 20.04.2023.

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7.4.1.3 Three-point linkage:

The following parameters does not meet the requirements of IS: 4468 (Part-I) – 1997 (Reaffirmed in Jan., 2017) and needs to be looked into for necessary corrective actions:

- i) Diameter of hitch pin hole & width of ball of upper hitch points have been measured as 25.80 mm & 50.9 mm, respectively against the requirements of 19.30 to 19.50 mm & 44.0 mm (Max.), respectively.
- ii) Diameter of hitch pin hole & width of ball of lower hitch points have been measured as 28.90 mm & 44.9 mm, respectively against the requirements of 22.40 to 22.65 mm & 34.8 to 35.0, respectively.
- iii) Lateral distance from lower hitch point to centre line of tractor has been measured as 364 mm against the requirement of 359 mm.
- iv) Lateral movement of lower hitch points has been measured as 98 mm against the minimum requirement of 100 mm.

7.4.1.4 Operator's seat:

The following parameters do not meet the requirement of IS: 12343-2021.

- i) Inclination of seat towards rear direction has been measured as 2°, against the requirement of 3 to 12°.
- ii) Vertical adjustment upward and downward from mid position has been measured as ± 15 mm, against the minimum requirement of ± 30 mm.
- iii) Provision for adjustment of driver's mass is not available on operator's seat.
- iv) Vertical distance from seat index point to centre of steering control wheel has been measured as 255 mm against the requirement of 265 to 385 mm.
- v) Vertical distance of seat index point from foot rest has been measured as 525 mm against the requirement of 450 to 520 mm.
- vi) Position of silencer outlet with respect to seat index point has been measured as 715 mm upward against the minimum requirement of 800 mm.

Therefore, all of the above should be looked into for necessary corrective action.

7.4.1.5 Operator's work place:

The following parameters does not meet the requirement of IS: 12239 (Part-I) -2018.

- i) Vertical retainers on inner side of clutch pedal are not provided.
- ii) Spark arresting device has not been provided in the exhaust system.

Therefore, all of the above should be looked into for necessary corrective action.

7.4.1.6 PTO master shield:

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

7.5 Maintenance / Service Problems:

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

7.6 Recommendation with regard to safety on tractor:

- i) Identification of hand controls by colour has not been provided as per the requirement as laid down in Table – 5 of IS: 8133-2021.
- ii) Stop control does not automatically remain in stop position without application of sustained manual efforts and which is located 380 mm from the engine start control against the minimum requirement of 150 mm, which does not meet the requirement as laid down in Table – 1 of IS: 8133-2021.
- iii) 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.

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- iv) The working clearance between draft control lever & RHS mudguard has been measured as 60 mm against the minimum requirement of 70 mm as per the requirement of IS: 12239 (Part II) - 2019.

Above parameters should be looked into for necessary corrective action.

7.7 Adequacy of Literature supplied with machine:

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

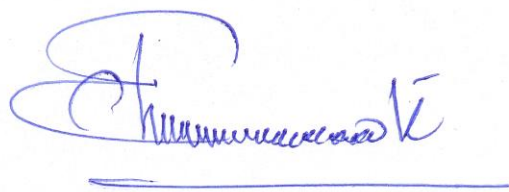
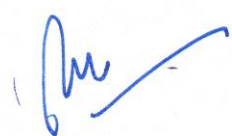
- Operator's Manual for "Indo Farm 3090 DI, 3075 DI, 3065 DI, 3055 NV, 3048 DI, 3040 DI, 3035 DI (C-MESH TRACTOR SERIES – 2WD/4WD)" tractor models.
- Spare parts catalogue for "Indo Farm 3035 DI, 3040 DI (2WD), 3048 DI, 3055 NV, 3055 DI, 3065 DI, 3075 DI, 3090 DI (2WD/4WD) (3 SERIES C-MESH TRACTORS)" tractor models
- Workshop manual for "Indo Farm 3065 DI, 3055 DI, 3055 NV, 3048 DI, 3040 DI, 3035 DI (C-MESH TRACTOR SERIES – 2WD/4WD)" tractor models

7.7.2 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:

- Coolant recommended and coolant-water ratio.

TEST CARRIED OUT AT C.F.M.T. & T.I., BUDNI (M.P.), INDIA

TESTING AUTHORITY

C. V. CHIMOTE TEST ENGINEER	
A. K. UPADHYAY DIRECTOR (I/C)	

Draft Test Report compiled by **C. K. Tijare**, Agricultural Engineer

8. APPLICANT'S COMMENTS

Para no.	Our reference	Comments
8.1	7.1.3 (b)	We will make efforts, so that such issue is not repeated in future tractors production.
8.2	7.4.1.1, 7.4.1.3, 7.4.1.4, 7.4.1.5, 7.4.1.6, 7.6	We will look into these for future improvements.

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ANNEXURE-I

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	Applicant has declared it to be conducted on their work place.
2.	PTO performance test	12.9
3.	Power lift and hydraulic pump performance test	5.6
4.	Drawbar performance test	17.1
5.	Brake performance test	1.0
6.	Nominal speed test	1.0
B.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test.	2.9
TOTAL:		40.5