

व्यावसायिक परीक्षण रिपोर्ट ( प्रथम बैच परीक्षण) संख्या/No. : T-1624/2155/2022  
COMMERCIAL TEST REPORT (1<sup>st</sup> Batch Test) माह/Month : February ,2022  
[ONLINE TESTING]

(यह परीक्षण रिपोर्ट 28/02/2027 तक वैध है / THIS TEST REPORT IS VALID UPTO 28/02/2027)



**INTERNATIONAL TRACTORS LIMITED,  
DI-47 RX 4WD 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 & FARMERS WELFARE)

केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

ट्रैक्टर नगर, बुदनी (म.प्र.) 466 445

**CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE**  
(An ISO 9001: 2015 Certified Institute)

TRACTOR NAGAR, BUDNI (M.P.) 466 445

**E-mail:** [fmti-mp@nic.in](mailto:fmti-mp@nic.in)

**Web site:** <http://www.fmttibudni.gov.in>

Telephone: 07564-234729

T-1624/2155/2022	INTERNATIONAL TRACTORS LIMITED, DI-47 RX 4WD TRACTOR Commercial - (First Batch Test)
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**Manufacturer** : M/s. International Tractors Limited,  
Vill. Chak Gujran, P.O. Piplanwala,  
Jalandhar Road, HOSHIARPUR –  
146 022 (Punjab) India.

Test requested by : The Manufacturer  
 Selected for test by : Testing Authority  
 Place of running-in : At C.F.M.T& T.I, Budni  
 Duration of said running-in, (h):  
 - Engine : 20  
 - Transmission : 20

**Method of Selection** : The test sample was selected randomly out of five tractors from the production line by the representative of testing authority through online mode.

**Tractors Chassis serial number made available for random selection:**

- i) FZVDR1058300S3
- ii) HZVDR1071571S3
- iii) HZVDR1071572S3
- iv) HZVDR1071573S3
- v) HZVDR1071578S3

### 1. BACKGROUND

1. Base model “Sonalika International DI-47 RX 4WD” was tested under Initial Commercial Testing vide Test Report No T-1051/1576/2016 released in December,2016.
2. Administrative Extension Test of Base Model was conducted vide Test Report No. T-1377/1904/2020 (March, 2020).
3. Now, the applicant had submitted an application No.28/2020-21/75 dated 04/03/2021 for 1<sup>st</sup> Batch Testing of tractor model “**International Tractors Limited, DI-47 RX 4WD**”. The relevant tests on the tractor model were conducted under Batch Test and accordingly the test report is released as under.

### 2. FUEL AND LUBRICANTS

**2.1 Fuel** : The High-speed diesel oil supplied by M/s Indian Oil Corporation Limited having density of 0.822 g/cc at 15°C was used.

**2.2 Lubricants:**

S. No.	Particulars	As recommended by the manufacturer	As used during the test
1.	Engine oil	SAE20W40 / [Sonalika Maxima Engine oil]	As recommended
2.	Gear box, differential, final drive, rear axle, brake, steering housing, and hydraulic system oil	ELF-2412 / [Sonalika Maxima Transmission oil]	Oil originally filled in the tractor was not changed
3.	Grease	Multipurpose grease	As recommended

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### 3. SPECIFICATIONS

- 3.1 Tractor:**
- Make : International Tractors Limited  
Model : DI-47 RX 4WD  
Brand name : None  
Variant, if any : None  
Type : Four wheeled, 4WD, Standard Agricultural Tractor.  
Year of manufacture : 05 21  
Chassis number : FZVDR1058300S3  
Country of origin : India
- 3.2 Engine:**
- Manufacturer address : M/s. International Tractors Limited,  
Vill. Chak Gujran, P.O. Piplanwala,  
Jalandhar Road, HOSHIARPUR –  
146 022 (Punjab) India.
- Make : International Tractors Limited  
Model : 3102IL  
Type : Four stroke, naturally aspirated, water cooled, direct injection, diesel engine.  
Serial number : 3102IL1401051331F5  
Year of manufacture : 2021  
Country of origin : India
- 3.2.1 Engine speed (rpm), (Manufacturer's recommended production settings):**
- Maximum speed at no load : 2200 to 2400  
- Low idle speed : 650 to 750  
- Speed at maximum torque : 1100 to 1300
- Rated speed, (rpm):**
- For PTO use : 2100  
- For drawbar use : 2100
- 3.3 Cylinder & Cylinder Head:**
- Number : Three  
Disposition : Vertical, in-line  
Bore/stroke, (mm) : 102 / 118  
Capacity as specified by the applicant, (cc) : 2893  
Compression ratio : 18.4 (±0.2) :1  
Type of cylinder head : Individual, Inline  
Type of cylinder liners : Wet, replaceable  
Type of combustion chamber : Direct injection, re-entrant cavity on piston crown  
Arrangement of valves : Overhead, Inline
- Valve clearance (cold/hot):**
- Inlet valve, (mm) : 0.30 / 0.30  
- Exhaust valve, (mm) : 0.40/ 0.40
- 3.4 Fuel System:**
- Type of fuel feed system : Gravity and force feed

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**15.5 Adequacy of literature:**

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

- |                      |                      |
|----------------------|----------------------|
| a) Operator's manual | a) Operator's manual |
| b) Parts catalogue   | b) Parts catalogue   |
| c) Service manual    | c) Service manual    |

**16. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS**

**16.1** On the basis of test 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 **Indian Standard: 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
<b>16.1.1</b>	<b>PTO Performance:</b>					
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 $\leq 26$ kW.	30.5 (D)	29.2	Yes
b)	Power at rated engine speed, (kW)	Non-Evaluative	-do-	30.5 (D)	29.2	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+ 10% max.	272 (D)	265	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non-Evaluative	$\pm 8\%$	168 (D)	164.1	Yes
e)	Back-up torque, percent	Evaluative	12 percent	12% (D) 12 % (R) Minimum	23.8	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.	132 (D)	114	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)	107	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. power under High ambient conditions.	2.68 Maximum (R)	0.31	Yes

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1	2	3	4	5	6	7
h)	Smoke level, m <sup>-1</sup>	Evaluative	Maximum light absorption coefficient of 3.25 per meter or equivalent BOSCH No. 5.2 or 75 Hatridge value ( <b>As per CMVR</b> ).	3.25 Maximum (R)	0.24	Yes
<b>16.1.2</b>	<b>Drawbar performance:</b>					
a)	Max. drawbar pull with ballasted corresponding to 15 percent wheel slip, (kN)	Non-Evaluative	Minimum 70% of static mass of tractor with ballast.	22.00 (D) 21.49 Minimum (R)	28.20	Yes
b)	Max. drawbar pull with standard ballasted as the case may be corresponding to 15 percent wheel slip, (kN)	Evaluative	Minimum 70% of static mass of tractor without ballast or with standard ballast, as the case may be.	17.00 (D) 16.54 (R) Minimum	22.12	Yes
c)	Maximum drawbar power with standard 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.	24.5 (D) 23.4 (R) Minimum	25.2	Yes
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	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	Nil	Not applic-able	Not applic-able
e)	Maximum transmission oil temperature (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	132 (D)	83	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	Evaluative	Tolerance of ± 10%	13.5 (D)	14.21	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.	8.0 (D) 6.87 (R) Minimum	11.49	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) Maximum	60	No
<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 road ballast, (m):					
	1) Cold brake	Evaluative	10	10 (R)	7.98	Yes
	2) Hot brake	Evaluative	10	10 (R)	8.13	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 (R) Maximum	241 to 254	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	350	Yes
<b>16.1.5</b>	<b>Noise measurement:</b>					
a)	Maximum ambient noise emitted by the tractor dB(A)	Evaluative	As per CMVR	88 (R)	83	Yes
b)	Maximum noise at operator's ear level dB(A)	Evaluative	As per CMVR	96 (R)	92	Yes
<b>16.1.6</b>	<b>Amplitude of mechanical vibrations at:</b>					
	1) Left foot rest	Non-Evaluative	100 microns (max)	100(R)	92	Yes
	2) Right foot rest				92	Yes
	3) Seat (with driver seated)				51	Yes
	4) Steering wheel				61	Yes
<b>16.1.7</b>	<b>Air cleaner Oil Pull-Over:</b>					
	Maximum air cleaner oil pull over, (%)	Evaluative	0.25% (Maximum)	Dry type air cleaner fitted	Not applicable	
<b>16.1.8</b>	<b>Haulage requirements:</b>					
a)	Gross mass of the trailers, (tones):					
	Two wheels	Non-Evaluative	--	5.5 (D)	5.5	Yes
	Four wheels	Non-Evaluative	--	6.0 (D)	6.0	Yes
b)	Distance travelled / liter of fuel consumption, (km/l):					
	Two wheels	Non-Evaluative	--	4.50 to 6.00 (D)	3.98 to 4.05	No
	Four wheels	Non-Evaluative	--	4.50 to 6.00 (D)	3.94 to 3.98	No
c)	Fuel consumption (ml/km/tonne):					
	Two wheels	Non-Evaluative	--	28.0 to 38.0 (D)	44.84 to 45.72	No
	Four wheels	Non-Evaluative	--	28.0 to 38.0 (D)	41.91 to 42.31	No

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1	2	3	4	5	6	7	
16.1.9	<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.	There should be no ingress of water and/or mud	No ingress of mud and / or water was observed during ICT vide test report no T-1051/1576/2016 December 2016) So, as per clause 7.2 of IS: 12207-2019, test was not conducted.	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	<b>Safety features:</b>						
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)	<b>Does not meet the requirement</b>		<b>No</b>	
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)	<b>Does not meet the requirement</b>		<b>No</b>	
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	11.30 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 applicable	Not applicable	

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1	2	3	4	5	6	7		
16.1.10	<b>Labelling of tractors (Provision of labelling plate):</b>							
	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 auto;"><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	International Tractors Ltd.	Yes
MM	YY							
	2)	Model	Evaluative		DI- 47 RX 4WD	Yes		
	3)	Month & Year of manufacture	Evaluative		05      21	Yes		
	4)	Engine number	Evaluative		3102IL1401051331 F5	Yes		
	5)	Chassis number	Evaluative		FZVDR1058300S3	Yes		
	6)	Maximum PTO power,kW(hp)	Evaluative		30.5 (40.9)	Yes		
	7)	Specific fuel consumption g/kWh(g/hp)	Evaluative	272 (203)	Yes			
16.1.11	<b>Discard limit for:</b>							
(a)	Cylinder bore diameter, (mm)	Evaluative	To be specified by the manufacturer and supported by the printed literature	102.346 (D)	102.50 to 102.075	Yes		
(b)	Clearance between piston & cylinder liner at skirt, (mm)	Non-Evaluative		0.45 (D)	0.157 to 0.186	Yes		
(c)	Piston diameter at the skirt, (mm)	Non-Evaluative		101.8	101.892 to 101.908	Yes		
(d)	<b>Ring end gap (mm):</b>							
	- Top comp. ring.	Evaluative	-do-	2.0 (D)	0.50 to 0.60	Yes		
	- 2 <sup>nd</sup> comp. ring.		-do-	2.0 (D)	0.65 to 0.70	Yes		
	- Oil ring.		-do-	2.0 (D)	0.60 to 0.70	Yes		
(e)	<b>Ring groove clearance (mm):</b>							
	- Top comp. ring.	Evaluative	-do-	0.20 (D)	Tapered	Yes		
	- 2 <sup>nd</sup> comp. ring.		-do-	0.20 (D)	0.074 to 0.098	Yes		
	- Oil ring.		-do-	0.20 (D)	0.041 to 0.050	Yes		
(f)	<b>Clearance of main bearings (mm):</b>							
	- Diametrical clearance	Evaluative	-do-	0.20 (D)	0.062 to 0.155	Yes		
	- Crankshaft end float	Evaluative		0.60 (D)	0.20	Yes		
(g)	<b>Clearance of big end bearings, (mm):</b>							
	- Diametrical	Evaluative	-do-	0.20 (D)	0.103 to 0.152	Yes		
	- Axial	Evaluative	-do-	0.60 (D)	0.25	Yes		
(h)	Clearance between king pin and bush, (mm)	Non-Evaluative	-do-	1.00 (D)	0.022 to 0.190	Yes		
(i)	Clearance between centre pin and bush, (mm)	Non-Evaluative	-do-	1.00 (D)	0.051 to 0.169	Yes		
16.1.11	<b>Literature (Submission to test agency)</b>							
(a)	Operator manual	Evaluative	Literature should meet the requirement of Indian Standard: 8132	Provided	Provided	Yes		
(b)	Parts Catalogue	Evaluative		Provided	Provided	Yes		
(c)	Workshop/ Service manual	Evaluative		Provided	Provided	Yes		



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1	2	3	4	5	6	7
16.1.12	<b>Fitment of Roll Over Protective Structures (ROPS):</b> 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 Applicable	Not Applicable
16.1.13	Standard Accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor	--	Provided	Yes
16.1.14	Accessories (optional)	Non Evaluative	Ballast weight, if fitted, should meet the requirement of CMVR	--	Provided	Yes

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 one and neither of them should be repetitive in nature	Mj-11 (Major-11)	Yes
3.	Minor	Evaluative	Not more than three 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 four, that is, (1 major + 3 minor) or 4 minor breakdowns.	One	Yes

### 16.3 Salient Observations:

#### 16.3.1 Laboratory tests:

##### 16.3.1.1 Drawbar performance test:

- i) After completion of drawbar test (with standard ballasted condition) leakage of oil was observed from the drop box of 4WD. On inspection of drop box of 4WD, the taper roller bearing was fitted on the shaft without an outer ring which causes sufficient play in the shaft that caused to leak oil from the drop box.

Upon the request of the applicant, the taper roller bearing with outer ring (Part No. 20001714AA) was allowed to be replaced with new one. This defect has been considered as major breakdown (Mj-11) as per IS:12207-2019 by considering the applicant's request letter No. Nil dated 12.01.2022.

- ii) During ten hours drawbar test, creeping of rear LHS & RHS tyre over the rim was recorded as 50 & 40 mm respectively. This should be looked into for necessary corrective action.

##### 16.3.1.2 Hydraulic performance test:

- i) Maximum drop in the height of lift during load maintenance test was recorded as **60 mm** against the maximum permissible limit of 50 mm which does not meet the requirement of IS: 12207-2019. This should be looked into necessary corrective action.

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**16.3.1.3 Three-point linkage:**

- i) The dimension of lateral distance from lower hitch point to centre line of tractor does not meet the requirement of IS: 4468 (Part I) – 1997 (Reaffirmed in October,2017). This is recommended to look into for necessary corrective action.
- ii) Some of the parameters conform to Cat. I and some of them conform to Cat. II. Keeping in view the spirit of standardization, necessary improvement may be incorporated.

**16.1.3.4 Operator seat:**

- i) Length & width of seat from seat Index point does meet the requirement of IS:12343-1998 (Reaffirmed in 2019).
- ii) Longitudinal distance from seat index point to centre of differential lock pedal has been measured as 265 mm against the requirement of 355 to 770 mm as per IS: 12343-1998 (Re-affirmed in 2019).

**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 of spark arrester in the exhaust system should be provided as per IS: 12209 (Part-I)-2018.
- ii) Vertical retainers has not been provided at both side of clutch pedal as per IS-12239 (Part-I) 2018.
- iii) Power take- off master shield has not been provided as per IS-12239 (Part-II)-1999 (Reaffirmed in 2019).
- iv) Safety switch to start the engine has not been provided as per IS: 8133-1983 (Reaffirmed in 2019).
- v) Fuel shut-off lever does not remain in stop position without application of sustained manual effort as per IS: 8133-1983 (Reaffirmed in 2019).
- vi) Working clearance around the draft control lever, position control lever & mudguard is less than the minimum requirement as per IS-12239 (Part-II)-1999 (Reaffirmed in 2019).

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

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

- a) Operator's manual of tractor model International Tractors Limited, DI-47 RX 4WD tractor.
- b) Spare Parts catalogue part I & part-II of tractor model International Tractors Limited, DI-47 RX 4WD tractor.
- c) Service Manual part I & part-II of tractor model International Tractors Limited, DI-47 RX 4WD tractor.


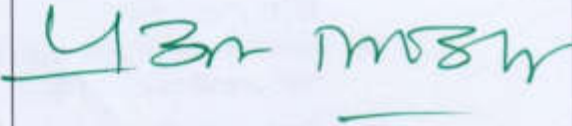
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16.6.2 The operator's manual may be brought out for the guidance of users and service personnel as per IS: 8132-1999 (Reaffirmed in 2019) incorporating, inter alia, the following:

- i) Safe hitch height of the trailer.
- ii) Preparation and maintenance of tractor for wet land operation.
- iii) Ballasting details should be provided in the operator's manual.

16.7 Delay of 20 days occurred during testing due to non-supply of spares / component parts of tractor by the manufacturer.

**TESTING AUTHORITY:**

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

Draft test report compiled by C.S. Raghuwanshi, Agricultural Engineer.

**17. APPLICANT'S COMMENTS**

Para no.	Our reference	Applicant comments
17.1	16.3.1.1 (i) & (ii)	We have already taken action to look after keen inspections during the fitment of all types of bearings.

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**ANNEXURE- I**

**TRACTOR RUN HOURS DURING TEST**

<b>A.</b>	<b>LABORATORY AND TRACK TESTS</b>	<b>HOURS</b>
1.	Running-in	40.0
2.	PTO performance test	11.5
3.	Drawbar performance test	17.4
4.	Power lift and hydraulic pump performance test	3.5
5.	Brake test	2.8
6.	Noise measurement	2.3
7.	Mechanical vibration test	1.0
8.	Nominal speed test	1.2
<b>B.</b>	<b>HAULAGE TEST</b>	5.0
<b>C.</b>	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	1.2
<b>TOTAL:</b>		<b>85.9</b>