

**[ONLINE TESTING]**

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**INTERNATIONAL TRACTORS LIMITED, DI – 750 III HDM  
(BRAND NAME: RX) 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, Cooperation & Farmer's Welfare)  
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<b>T- 1579/2107/2021</b>	<b>INTERNATIONAL TRACTORS LIMITED,DI – 750 III HDM (BRAND NAME: RX) TRACTOR – COMMERCIAL (FIRST BATCH TEST)</b>
	<b>(THIS TEST REPORT IS VALID UPTO: 31/08/2026)</b>

The “**INTERNATIONAL TRACTORS LIMITED, DI – 750 III HDM (BRAND NAME: RX) TRACTOR**” tractor had undergone “**Initial Commercial Test**” at this Institute, bearing report No. **T-1088/1613/2017** released in **May, 2017** and **Commercial Administrative Extension** test report No. **T-1380/1907/2020 (March, 2020)**. Now, the applicant has submitted online application No. 28/2020-21/17 dated 20/11/2020 for batch testing of “**INTERNATIONAL TRACTORS LIMITED, DI – 750 III HDM (BRAND NAME: RX) TRACTOR**” TRACTOR.

All the necessary tests as per table-1 of clause 6.0. of IS: 5994 -1998 (Reaffirmed in 2019) were carried out and test report released as under:

<b>Manufacturer</b>	: <b>M/s. International Tractors Limited</b> Vill. Chak Gujran, P.O. Piplanwala, Jalandhar Road, Hoshiarpur - 146 022 (Punjab). India
<b>Test requested by (applicant)</b>	: The manufacturer
Selected for test by	: The applicant
Place of running-in	: At manufacturer’s works
Duration of said running-in (h):	
- Engine	: 20
- Transmission	: 20
<b>Method of Selection</b>	: Due to Covid-19 Pandemic, it was not possible to conduct the random selection. Nor was possible for applicant to facilitate the random selection. As a last resort, applicant requested to allow the direct submission of test sample, which was allowed.

## 1. SPECIFICATIONS

<b>1.1 Tractor:</b>	
Make	: International Tractors Limited
Model	: DI-750 III HDM (BRAND NAME: RX)
Variants, if any :	

S. No.	Variant model	
1.	International Tractors Limited, DI-750 III HDM S1 (BRAND NAME: DI)	{tested vide test report no. T-1174/1701/2018 (August,2018)}

Type	: Four wheeled, Rear wheel driven, Unit construction, General Purpose, Agricultural Tractor.
Month & Year of manufacture	: 01 & 2020
Chassis number	: BZUDR100156953
Country of Origin	: India

<b>1.2 Engine:</b>	
Make	: International Tractors Limited
Model	: 4100EL
Type	: Four stroke, naturally aspirated, liquid cooled, direct injection, diesel engine.
Serial number	: 4100EL14A995242F16

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#### 14. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

14.1 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
14.1.1	<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: $\pm 5\%$ for PTO power or engine power $>26$ kW, $\pm 10\%$ for PTO power or Engine power $\leq 26$ kW.	32.0 (D)	33.0	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	32.0 (D)	33.0	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+ 10% Max.	260 (D)	258	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	$\pm 8\%$	210 (D)	207.7	Yes
e)	Back-up torque, percent	Evaluative	12 percent, min.	12 (D) 12 (R)	31.7	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)	113	Yes
	2) Coolant (liquid)	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	2.73 (R) Maximum	0.34	Yes
h)	Smoke level, ( $m^{-1}$ )	Evaluative	Maximum light absorption coefficient of 3.25 per meter or equivalent BOSCH No. 5.2 or 75 Hat ridge value (As per CMVR)	3.25 (R)	0.20	Yes

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1	2	3	4	5	6	7	
<b>14.1.2</b>	<b>Drawbar performance:</b>						
a)	Maximum drawbar pull with ballast corresponding to 15 percent wheel slip, (kN)	Non Evaluative	Minimum 70% of static mass with ballast	21.67 (D) 21.35 (R) Minimum	22.19	Yes	
b)	Maximum drawbar pull without ballast corresponding to 15 percent wheel slip, (kN)	Evaluative	Minimum 70% of static mass of tractor without/ standard ballast	16.21(D) 15.90(R) Minimum	17.70	Yes	
c)	Maximum drawbar power without ballast, or with standard ballast as the case may be, 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.	25.6(D) 26.4(R) Minimum	27.9	Yes	
d)	Maximum transmission oil temperature (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company.	130(D)	81	Yes	
<b>14.1.3</b>	<b>Power lift and hydraulic pump performance :</b>						
a)	Maximum lifting capacity throughout the range of lift, (kN):						
	1)	At hitch points	Evaluative	±10 percent	16.0(D)	17.33	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	10.0 (D) 7.77 (R) Minimum	13.24	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) 50 (R) Maximum	40	Yes	
<b>14.1.4</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)	8.32	Yes
	2)	Hot brake	Evaluative	10	10 (R)	8.32	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)	296 to 399	Yes	

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1	2	3	4	5	6	7
c)	Whether parking brake is effective at a force of 600 N at foot pedal(s) or 400N at hand lever, N	Evaluative	Yes / No	Yes (R)	Yes	Yes
<b>14.1.5</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>14.1.6</b>	<b>Amplitude of mechanical vibrations at :</b>					
1)	Left foot rest	Non Evaluative	100 microns (max)	100 (R)	106	No
2)	Right foot rest		-do-		162	No
3)	Seat (with driver seated)		-do-		59	Yes
4)	Steering wheel		do-		68	Yes
<b>14.1.7</b>	<b>Air cleaner oil pull over :</b>					
	Maximum air cleaner oil pull over	Evaluative	0.25 % (max.)	Dry type air cleaner is provided		Yes
<b>14.1.8</b>	<b>Haulage requirements :</b>					
a)	<b>Gross mass of the trailers, (tonne):</b>					
1)	Two wheel	Non Evaluative	As specified by the manufacturer	5.0 (D)	5.0	Yes
2)	Four wheel			6.5 (D)	6.5	Yes
b)	<b>Distance travelled / litre of fuel consumption, (km/l):</b>					
1)	Two wheel	Non Evaluative	As specified by the manufacturer	4.5 to 6.0 (D)	4.92 to 5.11	Yes
2)	Four wheel			4.5 to 6.0 (D)	4.70 to 4.81	Yes
c)	<b>Fuel consumption (ml/km/tonne):</b>					
1)	Two wheel	Non Evaluative	As specified by the manufacturer	30 to 40 (D)	39.17 to 40.62	No
2)	Four wheel			30 to 40 (D)	31.99 to 32.73	Yes
<b>14.1.9</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.	There should be no ingress of water and / or mud (R)	No ingress of mud and / or water was observed during ICT vide test report no. T-1088/1613/2017 (May,2017)	Yes
1)	Clutch assembly	-do-				
2)	Brake housings	-do-				
3)	Front axle hubs	-do-				
4)	Engine Oil	-do-				
5)	Transmission Oil	-do-				

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<b>14.1.10</b>	<b>Safety features :</b>							
a)	Guards against moving and hot parts	Evaluative	Belt drives, pulleys, silencer, hydraulics pipes(as per IS-12239 Part 2)		Meet the requirements	Yes		
b)	Lighting arrangement	Evaluative	As per CMVR		Meet the requirements	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 requirements</b>	<b>No</b>		
d)	Technical requirements for PTO shaft	Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)		Meet the requirements	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 requirements</b>	<b>No</b>		
f)	Specifications of linkage drawbar	Evaluative	Should meet the requirements of IS 12953 (As amended from time to time)		Meet the requirements	Yes		
g)	Specifications of Swinging drawbar (wherever fitted)	Evaluative	Should meet the requirements of IS 12362 (Part 3) (As amended from time to time)		<b>Not provided</b>	<b>Not applicable</b>		
h)	1) Maximum travelling speed at rated engine speed in reverse gears, kmph	Evaluative	Should not exceed 20 Kmph		(14.66 kmph) Meet the requirements	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 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.		<b>Not applicable</b>	<b>Not applicable</b>		
<b>14.1.11</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 in kW and year of manufacture in <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>MM</td><td>YY</td></tr></table> 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	MM	YY		International Tractor Limited	Yes
MM	YY							
	2) Model	Evaluative			DI-750 III HDM (BRAND NAME : RX)	Yes		
	3) Month & Year of manufacture	Evaluative			01 & 2021	Yes		
	4) Engine number	Evaluative			4100EL14A995242F16	Yes		
	5) Chassis number	Evaluative			BZUDR100156953	Yes		
	6) Declaration of PTO power, kW (hp)	Evaluative			32 (42.91)	Yes		
	7) Specific fuel consumption ,g/kWh (g/hph)	Evaluative		260 (194)	Yes			

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1	2	3	4	5	6	7
<b>14.1.12</b>	<b>Discard limit for:</b>					
(a)	Cylinder bore diameter, (mm)	Evaluative	To be specified by Manufacturer	100.35	100.03 to 100.04	Yes
(b)	Clearance between piston & cylinder liner at skirt, (mm)	Non Evaluative		0.45	0.11 to 0.13	Yes
(c)	Piston diameter at skirt, mm	Non Evaluative		0.35	99.93	Yes
(d)	<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 0.90	Yes
	- Oil ring.		-do-	2.0	0.45 to 0.60	Yes
(e)	<b>Ring groove clearance (mm):</b>					
	- Top comp. ring.	Evaluative	-do-	NA	Tappered	Not applicable
	- 2 <sup>nd</sup> comp. ring.	-do-	-do-	0.20	0.047 to 0.054	Yes
	- Oil ring.	-do-	-do-	0.20	0.032 to 0.036	Yes
(f)	<b>Clearance of main end bearings, (mm):</b>					
	- Diametrical	Evaluative	-do-	0.35	0.06 to 0.11	Yes
	- Crank shaft end float	Evaluative	-do-	0.70	0.15	Yes
(g)	<b>Clearance of big end bearings, (mm):</b>					
	- Diametrical	Evaluative	-do-	0.35	0.09 to 0.11	Yes
	- Axial	Evaluative	-do-	1.00	0.20 to 0.25	Yes
(h)	Clearance between king pin and bush,(mm)	Non Evaluative	-do-	0.10	0.07 to 0.12	No
(i)	Clearance between center pin and bush,(mm)	Non Evaluative	-do-	1.00	0.11 to 0.14	Yes
<b>14.1.13</b>	<b>Literature (Submission to test agency):</b>					
(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
<b>14.1.14</b>	Fitment of Roll Over Protective Structure (ROPS): for tractors having more than 1150 mm rear track width	Evaluative	ROPS should meet the requirement of IS:11821 or OECD code or equivalent International Standard	Not Provided	Not fitted	Not applicable
<b>14.1.15</b>	Standard accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor	Provided	Provided	Yes
<b>14.1.16</b>	Accessories (Optional)	Non Evaluative	Ballast weights if fitted should meet the requirement of CMVR.	Provided	Provided	Yes

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14.2 CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS-12207-2019):					
S. No.	Category of Breakdown	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2019	As observed	Whether meets the requirement (Yes/No.)
1.	Critical breakdown	Evaluative	There is no 'critical breakdown' during the course of testing	None	Yes
2.	Major breakdowns	Evaluative	There are not more than 1 major breakdowns and neither of them is of repetitive nature.	None	Yes
3.	Minor breakdowns	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

#### 14.4 Salient Observations:

##### 14.4.1 Laboratory tests:

##### 14.4.1.1 PTO performance:

- i) The maximum PTO power was recorded as **33.0 kW** against the declaration of **32.0 kW**, which meets the evaluative requirement of IS: 12207-2019 with regard to tolerance limit.
- ii) The specific fuel consumption corresponding to maximum power was measured as **258 g/kWh** against the declaration of **267 g/kWh**, which meets the evaluative requirement of IS: 12207-2019 with regard to tolerance limit.
- iii) The maximum equivalent crankshaft torque was recorded as **207.7 Nm** against the declaration of **210 Nm**, which is within the permissible limit as specified in IS: 12207-2019.
- iv) The backup torque was observed **31.7 %**, which meets the evaluative requirement of IS: 12207-2019 with regard to tolerance.

##### 14.4.1.2 Drawbar performance test:

During ten hours drawbar performance test, creeping of LHS rear tyre over the rims was recorded as **05 mm**. This should be looked into for necessary corrective action.

##### 14.4.1.3 Mechanical Vibration:

The amplitude of mechanical vibration on various assemblies marked as (\*) in **Chapter - 8** of this test report is on higher side. This calls for dampening down of vibrations especially on steering control wheel to improve the operational comfort and service life of components.

##### 14.4.1.4 Three point linkage:

Lateral distance from lower hitch point to centre line of tractor does not meet the requirement and 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.

##### 14.4.1.5 Linkage drawbar:

Some of the parameters of the drawbar linkage conform to Cat.-I and some of them conform to Cat.-II. Keeping in view of the spirit of standardization, the necessary improvements may be incorporated.

##### 14.4.1.6 Operator's Seat

The Longitudinal distance from centre of differential lock pedal to Seat Index Point does not meet the requirement of the IS: 12343 -1998 (Re-affirmed in 2014). This should be looked into for necessary corrective action.



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**14.4.1.7 Operator's work place:**

Operator's work place meets the requirements of IS:12239(Part-1)1996 (Reaffirmed Oct., 2017), **except the following:**

- i) Provision of vertical retainness at inner side of clutch and brake pedal.
- ii) Provision of spark arresting device in the exhaust system.

**14.4.1.8 Constructional requirement with regard to safety:**

Meets the requirements of IS: 12239 (Part-II)-1996 (Re-affirmed in October, 2017), except the following:

- i) PTO master shield has not been provided on tractor.
- ii) Working clearance in between position control and draft control lever is less than the requirement.
- iii) Minimum Cautionary notice as per clause 11.2 of above referred standard has not been provided.

**14.4.1.9 Clearance between king pin and bush,(mm):**

The clearance between king pin and bush was recorded as 0.12 mm against the declaration of 0.10 mm and does not meet the non-evaluative requirement of IS: 12207-2019 with regard to tolerance. This should be looked into for necessary corrective action.

**14.4.1.10 Labelling Plate:**

- i) The maximum PTO power has been specified as 32.0 kW (42.91 hp) vide labelling plate of the tractor. As per the conversion, the power of 32.0 kW is equals to 43.5 hp and not equals to 42.9 hp. This needs to be looked into for necessary corrective action.
- ii) The specific fuel consumption corresponding to maximum power has been specified as **260, g/kWh (194 g/hph)**. By calculation, we find  $260 \times 0.7355 = 191.2$  g/hph. This need to be looked in to for necessary correction.

**14.4.2 Field performance test:**

**14.4.2.1 Haulage performance:**

- i) The specific fuel consumption (ml/km/ton) in case of two wheel trailer was recorded as **39.17 to 40.62** ml/km/ton, against the declaration of **30 to 40** ml/km/ton. The observed value was on higher side and does not meet the non - evaluative requirement of IS: 12207-2019 with regard to tolerance. This should be looked into for necessary corrective action.

**14.4.2.2 Wetland cultivation (Puddling operation):**

No ingress of mud and / or water was observed during initial commercial test, tested vide test report No.T-1088/1613/2017, (May).

**14.5 Maintenance / Service Problems:**

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

**14.6 Recommendation with regard to safety on tractor:**

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

- i) Provision of spark arresting device in exhaust system.
- ii) The working clearance between position lever and draft control lever does not meet the requirement of IS: 12239 (part-2)-1999.
- iii) Longitudinal distance from centre of differential lock pedal to Seat Index Point does not meet the requirement. It should be provided as per IS: 12343-1998, (Re-affirmed in 2014).
- iv) Vertical retainers at inner side of clutch and brake pedal should be provided as per relevant standard.

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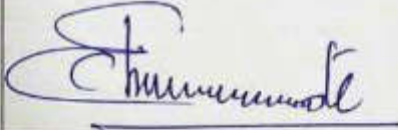

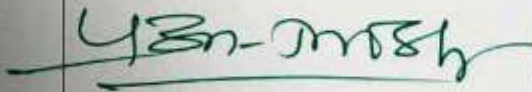
**14.7 Adequacy of Literature supplied with machine:**

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

- a) Operator's manual of "INTERNATIONAL TRACTORS LTD. DI – 750 III HDM (BRAND NAME: RX)" Tractor model.
- b) Service manual of "INTERNATIONAL TRACTORS LTD. DI – 750 III HDM (BRAND NAME: RX)" Tractor model.
- c) Parts Catalogue of "INTERNATIONAL TRACTORS LTD. DI – 750 III HDM (BRAND NAME: RX)" Tractor model.

**14.7.2** The literatures should also be brought out in national as well as other regional languages for the guidance of users and service personnel.

**TESTING AUTHORITY:**

C.V. CHIMOTE TEST ENGINEER	
Y.K.RAO SENIOR AGRICULTURAL ENGINEER	
P. K. PANDEY DIRECTOR	

Draft test report is compiled by: Shwetabh Singh, Agricultural Engineer.

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### 15. APPLICANT'S COMMENTS

<b>Para No.</b>	<b>Our Reference</b>	<b>Applicant's comments</b>
--	--	Our comments for your observation - Nil

### 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	10.7
3.	Drawbar performance test	19.6
4.	Power lift and hydraulic pump performance test	2.5
5.	Brake test	1.0
6.	Noise measurement	1.6
7.	Mechanical vibration test	1.0
8.	Nominal speed test	1.0
<b>B.</b>	<b>HAULAGE TEST</b>	5.2
<b>C.</b>	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test.	2.0
<b>TOTAL:</b>		<b>84.6</b>