प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट संख्या/No. : T-1780/2311/2023 INITIAL COMMERCIAL TEST REPORT माह/Month : September, 2023

Application Reference No. 28/2022-23/122

(यह परीक्षण रिपोर्ट 30/09/2028 तक वैध है / THIS TEST REPORT IS VALID UPTO 30/09/2028



Make of Agricultural Tractor: INTERNATIONAL TRACTORS LIMITED

Model : DI-65 4WD CRDS

Manufactured by : M/s. International Tractors Limited



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

TRACTOR NAGAR, BUDNI (M.P.) 466 445 (An ISO 9001:2015 Certified Institute)

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IMPORTANT INFORMATION

The Government of India, Ministry of Agriculture and Farmers' Welfare has directed, vide an 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: September Test Report No.: T-1780/2311/2023 Year: 2023



GOVERNMENT OF INDIA CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE TRACTOR NAGAR, BUDNI (MADHYA PRADESH) 466445, INDIA

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CENTRAL FARM MACHINERY TRAINING AND TESTING INSTITUTE - BUDNI

INTERNATIONAL TRACTORS LIMITED, DI-65 4WD CRDS -**INITIAL COMMERCIAL TEST** T-1780/2311/2023 THIS TEST REPORT IS VALID UPTO: 30/09/2028

[C] Tractor manufacturer's name and M/s. International Tractors Limited, address Vill. - Chak Gujran, P.O. Piplanwala, Jalandhar Road, Hoshiarpur-146 022 (Pb.) India [D] Location of tractor assembly M/s. International Tractors Limited, Vill. - Chak Gujran, P.O. Piplanwala, Jalandhar Road, Hoshiarpur-146022(Pb.) India The Manufacturer [C] Submitted for test by (Applicant) [C] Selected for test by The Ministry vide OM No. 13-17/2021 - M&T (I&P) dated 28.07.2022, has allowed the applicant to submit the test sample directly to the Institute without requiring any random selection for Initial Commercial Testing. Thus, the applicant directly submitted the test sample to the Institute for test. Place of running-in At manufacturer's works [D] Duration of running-in (h): [D] -Engine 30 -Transmission 30 [C] Location of test Government of India, Central Farm Machinery Training and Testing Institute, P.O. - Tractor Nagar,

1. SPECIFICATIONS OF TRACTOR

1.1	Identification:		
1.1.1	Denomination		
[C]	Make of tractor	: Inte	ernational Tractors Limited
[C]	Model	: DI-	65 4WD CRDS
[C]	Туре		ur Wheel Drive, General purpose, Standard ricultural Tractor
[C]	Month & year of manufacture	: 10/	22
[D]	Country of origin	: Ind	ia
1.1.2	Numbers:		
[D]	1 st Serial No. of prototype	: HV	HDJ1191190S3
[C]	Serial No.	: KV	HDJ1239093S3

1.2 **Engine:**

Manufacturer's address International Tractors Limited. [D]

Vill. - Chak Gujran, P.O. Piplanwala, Jalandhar

Road, Hoshiarpur-146022(Pb.) India

BUDNI - 466445 (M.P.), INDIA

International Tractors Limited [C] Make

Model 4107BM3

[C] Four stroke, naturally aspirated, liquid cooled, Type

Common rail direct injection, diesel engine

4107BM324J1229980F38 [C] Serial No.

1.2.1 **Cylinders:**

Number/disposition Four, vertical, in-line [C]

[D] Bore / Stroke, (mm) 107 / 131

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4. OPTIONAL TEST RESULTS

As the applicant has not applied for any optional tests, therefore no optional tests was conducted.

5. REPAIRS

S. No.	Adjustment/Defect/Breakdown and Repairs	Tractor run hours
1.	During the drawbar performance test in M-3 gear, sudden drop and rise of engine speed & pull was observed which caused jerking of tractor and unable to sustain the uniform load. Upon this, the applicant vide letter no. nil dated 12.09.2023 has requested to checking/cleaning of wiring harness & sensors due to appearance of the error code "P-1804" related to pressure relief valve open, which was allowed. Accordingly, wiring harness was checked and the connectors were tightened properly. Also all sensors points were checked for any pin damage and found satisfactory.	18.4
2.	During the preparation of drawbar performance test, the threads of fuel filter top cover body (Part No. 803008185A) got damaged. Upon this, the applicant vide letter no. nil dated 12.09.2023 has requested to replace the fuel filter top cover body with new one of same specifications. Accordingly the fuel filter top cover body (Part No. 803008185A, quantity – 1 No.) of same specification was replaced with new one. This defect has not been categorized in any breakdown/defect as per IS: 12207-2022.	21.2

6. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

6.1 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 IS: 12207-2022 for acceptance of the tractor for the purpose of subsidies/NABARD financing are summarized as under:

SI. 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 requirem- ents (Yes/No)
1	2	3	4	5	6	7
	MANDATORY TEST dated 28 th of July,		inistry's Office Memorandum	No. 13-17/	2021-M&	T (I&P)
6.1.1	PTO Performance:					
a)	Maximum power under 2 h test, (kW) (Natural ambient condition)	Evaluative	Declared value to be achieved with a tolerance of: ±5% for PTO power and or engine power >26 kW. ±10% for PTO power and or engine ≤ 26 kW.	44.0 (D)	45.5	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	44.0 (D)	45.5	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	Should not be more than 10% of declared value.	275 (D)	258	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	± 8%	278 (D)	272.1	Yes
e)	Back-up torque, percent	Evaluative	Should be min. 12%	12 (D) 12 (R)	25.2	Yes
f)	Maximum operating	temperature. (°C):			

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1		2	3	4	5	6	7
	1)	Engine oil	Evaluative	The declared value should not exceed the Max value specified by the oil company and the observed value under natural ambient/high ambient condition should not exceed the declaration.	132 (D)	115	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.	118 (D)	102	Yes
g)	Engir cons (g/kV	umption,	Evaluative	Not exceeding 1% of SFC at Max power under natural ambient condition. The value would be based on the test conducted under natural ambient condition	2.58 Maximum (R)	0.22	Yes
h)		ke level, m ⁻¹	Evaluative	Maximum light absorption coefficient of 3.25 per meter or equivalent BOSCH No. 5.2 or 75 Hatridge value (As per CMVR). 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)	0.04	Yes
6.1.2		bar performar		Tag: : 700/ / / /:			
a)	with corre	drawbar pull ballast esponding to percent wheel (kN)	Non Evaluative	Minimum 70% of static mass of tractor with ballast.	*	*	*
b)	with balla corre	esponding to percent wheel	Evaluative	In case of tractors having total static mass ≥ 1500 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 ≤ 1500 kg total static mass of tractor, Min. 65% of static mass of tractor without ballast or with standard ballast, as the case may be.	20.8 (D) 20.80 (R) Minimum	29.26	Yes
c)	Maxi powe stand (kW)	dard ballast,	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.	35.2 (D) 36.4 (R) Minimum	39.5	Yes

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1		2	3	4	5	6	7
- '	Mayi	mum	Evaluative	The declared value should not		86	Yes
		mission oil	Lvaluative	exceed the recommendation by			103
d)		perature, (°C)		the oil manufacturer. The			
u)	10	, o. a.ta. o, (o)		observed value should not			
				exceed the declared value			
Remark:-1	Tho	applicant vid	o letter no N	throughout the drawbar test. Iil dated 26.07.2023 has req	uested not	to condu	ct the
itemark. 1				-			
			•	& ten-hour drawbar test, wh		-	
		_	_	g of tractors as per new regim	_		
	a Ol	/I No. 13-32/20	023-M&T (I&P	P) (FTS-125476) dated 16.05.2	2023. Accord	lingly, dr	awbar
	perf	ormance test	under standa	rd ballasted condition was co	onducted on	ly.	
6.1.3	Pow	er lift and hyd	raulic pump į	performance:			
a)	Maxi	mum lifting cap	pacity through	out the range of lift, (kN):			
	1)	At hitch	Evaluative	Should not be less than 90%	18.00 (D)	19.84	Yes
		points		of declared value.	16.20 (R)		
					Minimum		
	2)	With the	Evaluative	The lift capacity should at	14.00 (D)	18.84	Yes
		standard		least be 24 kg/PTO kW and it	10.71 (R)		
		frame		should be 21.5 kg/engine kW	Minimum		
				where the tractor is not provided with a PTO shaft.			
b)	Maxir	num drop in	Non	The observed value should	50 (D)	225	No
D)		height of the	Evaluative	not exceed 50 mm.	Maximum	223	NO
		of application	Lvaidativo	The exceed of Time	Waxiiiiaiii		
	of the force after						
	each 5 minutes interval for a total						
	duration of 30						
		tes, (mm)					
6.1.4		e performanc	e at 25 kmph:				•
a)	Maxi	mum stopping	distance at a	force, equal to or less than 600	ON on brake	pedal wit	h road
	balla	st, (m):					
	1)	Cold brake	Evaluative	10	10 (R)	8.10	Yes
	2)	Hot brake	Evaluative	10	10 (R)	8.29	Yes
b)		ther parking	Evaluative	Yes / No	Yes	Yes	Yes
		e is effective					
		orce of 600 N					
		ot pedal (s) or N at hand					
	lever						
6.1.5			· Δs the annli	cant has not applied for any	ontional test	ts therefo	ore no
01110		onal tests was		ount nue net appnea iei uny		,	
6.1.6	_	ty features :					
a)	Guai	•	Evaluative	Belt drives, pulleys, silencer,	Meets	the	Yes
	movi	ng and hot		hydraulic pipes [As per IS			
	parts			12239 (Part2)]			
b)	Light	-	Evaluative	As per CMVR	Confor	ms	Yes
		ngement					
c)	Seati		Non	Should meet the requirements	Does not		No
		rements	Evaluative	of IS: 12343 (As amended from	meet the req	uirement	
	(Tractors having time to time)						
		rack width)					
d)		nical	Non	Should meet the requirements	Meets	the	Yes
,	requ	irements for	Evaluative	of IS: 4931 (As amended from	requirer		
		shaft		time to time)			
					•	l	

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1		2	3	4	5 6	7
e)		ensions of three	Non	Should meet the requirements of	Does not	No
,	poin	t linkage	Evaluative	IS: 4468 (Part-I) (As amended from	meet the	
				time to time)	requirement	
f)	Specifications of linkage drawbar		Non	Should meet the requirements of	Meets the	Yes
	linkage drawbar		Evaluative	IS: 12953 (As amended from time	requirement	
				to time)		
g)	Swinging drawbar (wherever fitted)		Non	Should meet the requirement of IS:	Not provided	Not
	(wne	erever fitted)	Evaluative	12362 (Part 3) (As amended from time to time)		appli- cable
b \	۸۰۰۰	lible warning	Evaluative	If tractor travel speed in reverse	Provided	Yes
h)		•	Evaluative	gear exceeds 20 kmph, an audible	Provided	165
	sigi	nal on tractor		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		
0.4.			(5	displayed.		
6.1.7				of labelling plate):	1	
	1)	Make	Evaluative	Should conform to the	International	Yes
				requirements of CMVR	Tractors Limited	
	2)	Model	Evaluative	along-with declared value of	DI-65 4WD CRDS	Yes
	3)	Month &	Evaluative	PTO in kW, Specific fuel	10 / 22	Yes
		Year of		consumption (SFC)		
		manufacture		corresponding to maximum		
	4)	Engine	Evaluative	power in g/kWh and year of	4107BM324J12299	Yes
		number		manufacture in numerical form	80F38	
	5)	Chassis	Evaluative	MM YY	KVHDJ1239093	Yes
		number		Digit 01-12 in box No. 1 for MM	S3	
	6)	Maximum	Evaluative	will represent the month and	44	Yes
		PTO power,		next two digit in the box No. 2 for		
		(kW)		YY will represent the year of		
	7)	Specific fuel	Evaluative	manufacturing.	275	Yes
		consumption,				
		(g/kWh)				
6.1.8		rature (Submis				
(a)	Оре	erator manual	Evaluative	The printed literature in booklet	Provided	Yes
(b)	Par	ts Catalogue	Evaluative	form should be provided as per	Provided	Yes
(c)	Wo	rkshop/	Evaluative	IS 8132 and should submit along	Provided	Yes
, ,	Ser	vice manual		with the test sample.		
6.1.9	Fitn	nent of Roll Ov	er Protective	Structures (ROPS):		
	For	tractor having	Evaluative	ROPS should meet the	Not fitted*	Not
		e than 1150		requirement of IS: 11821 or	not milou	appl
	mm	rear track		OECD code or equivalent		icabl
	widt			International Standard.		е
			vida lattar na	o. nil dated 29.09.2023 has sub	mittad that "prote	otivo
		• •		or as the structure fitted on the t	•	
6.1.10		ndard	Evaluative	Trailer hitch, front tow hook,	Provided	Yes
0.1.10		essories	Lvaluative	linkage drawbar should be	FIOVICEC	162
	700	C3301163				
6 4 44	۸۵۰	occarios	Non	provided with tractor	Drovided	Voo
6.1.11		essories	Non	Ballast weight, if fitted, should	Provided	Yes
	(opt	ional)	Evaluative	meet the requirement of		
				CMVR		

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6.2	CATEGORY	OF BREAKD	OWNS / DEFECTS (As per clause 5	5.0 of IS:12207-2	022):
S. No.	Category of break-downs	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2022	As observed	Whether meets the Requirement (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 2 major breakdowns and neither of them should be of repetitive nature.	None	Yes
3.	Minor	Evaluative	There are not more than 5 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 five that is, (2 major + 3 minor) or (1 major + 4 minor) or 5 minor breakdowns.	None	Yes

6.3 Conformity with following IS:

- Guidelines for declaration of power and specific fuel consumption and labeling : Conforms of agricultural tractors (First revision) [IS:10273 -1987 (Reaffirmed Year 2019)]
- ii) Agricultural tractors Rear mounted power take-off Types 1, 2 and 3 (third : Conforms revision) [IS:4931-1995 (Reaffirmed Year 2019)]
- iii) Agricultural wheeled tractors Rear mounted three-point linkage: Part 1 : Does not Categories 1, 2, 3 & 4 (fourth revision) [IS:4468(Part-I) 1997 (Reaffirmed in conform
- iv) Drawbar for agricultural tractors Link type [IS 12953:1990 (Reaffirmed Year : Conforms 2022)]
- v) Agricultural tractors- Operator's seat technical requirement [IS12343 2021] : Does not
- vi) Guide for safety & comfort of operator of agricultural tractors:Part 1 General : Does not requirements (first revision):[IS 12239 (Part 1) 2018] conform
- vii) Tractors and machinery for agriculture and forestry Technical means for : Does not ensuring safety Part 2: Tractors (first revision) (IS 12239 (Part 2) 1999) conform (Reaffirmed Year 2019)]
- viii) Guide lines for location and operation of operator controls on agricultural : **Does not** tractors and machinery [IS: 8133 2021] **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)] conform
- x) Agricultural Tractors and Machinery-Lighting device for travel on public roads: Conforms (IS:14683-1999) (Reaffirmed Year 2019)]

6.4 Salient Observations:

6.4.1 Laboratory tests:

6.4.1.1 Drawbar performance:

(i) During the drawbar performance test in M-3 gear, sudden drop and rise of engine speed & pull was observed which caused jerking of tractor and unable to sustain the uniform load. Upon this, the applicant vide letter no. nil dated 12.09.2023 has requested to checking/cleaning of wiring harness & sensors due to appearance of the error code "P-1804" related to pressure relief valve open, which was allowed. Accordingly, wiring harness was checked and the connectors were tightened properly. Also all sensors points were checked for any pin damage and found satisfactory. This should be looked into for necessary action.

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(ii) During the preparation of drawbar performance test, the threads of fuel filter top cover body (Part No. 803008185A) got damaged. Upon this, the applicant vide letter no. nil dated 12.09.2023 has requested to replace the fuel filter top cover body with new one of same specifications. Accordingly the fuel filter top cover body (Part No. 803008185A, quantity – 1 No.) of same specification was replaced with new one. This defect has not been categorized in any breakdown/defect as per IS: 12207-2022. This should be looked into for necessary action.

6.4.1.2 Three-point linkage:

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

The dimensions viz. lateral distance from lower hitch point to centre line of tractor, diameter of upper and lower hitch pin hole and width of lower hitch point ball does not meet the requirements of IS: 4468 (Part-I) – 1997. This should be looked into for corrective action.

6.4.1.3 Operator's seat:

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

- i) Width of seat is measured as 430 mm against the requirement of 450 mm (min.) respectively
- ii) Provision for adjustment of driver's mass has been specified as 50 to 120 kg against the requirement of 40 to 100 kg.

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

6.4.1.4 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.
- iii) Height of first step from ground level is higher side.

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

6.4.1.5 PTO master shield:

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

6.4.1.6 Frame Structure:

The applicant vide letter no. nil dated 29.09.2023 has submitted that "protective structure not fitted on the tractor as the structure fitted on the tractor is a frame only".

6.5 Maintenance / Service Problems:

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

6.6 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) 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.
- iii) The neutral positions identifying mark 'N' is not mentioned in the direction control (forward-reverse non-variable speed) lever as per the requirement as IS: 8133-2021.
- iv) Provision to prevent unintentional engagement of the PTO clutch has not been provided as laid down in IS: 8133-2021.
- v) The working clearance between position control lever & RHS fender and between PTO lever & RHS fender have been measured as 50 & 20 mm respectively 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.

6.7 Adequacy of Literature supplied with machine:

- **6.7.1** The following literatures were supplied with the test tractor for reference during the test:
 - a) Operator Manual for "International Tractors Limited, DI-65 4WD CRDS" tractor model.
 - b) Parts catalogue for "International Tractors Limited, DI-65 4WD CRDS" tractor model.

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- Service manual Part I & II for "International Tractors Limited, DI-65 4WD CRDS" tractor model.
- 6.7.2 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:
 - i) Recommended ballast masses for different operations.

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

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

Draft Test Report compiled by Sh. Shivkumar Sharma, Senior Technical Assistant.

7. APPLICANT'S COMMENTS

Para no.	Our reference			App	olican	ts comments	-	
7.1	6.4.11 (I & ii)	We	will	consider	the	observations	for	potential
* =		improvements wherever required.						

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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	11.1
3.	Power lift and hydraulic pump performance test	1.0
4.	Drawbar performance test	6.3
5.	Brake performance test	1.8
6.	Nominal speed test	3.6
B.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	7.4
	TOTAL:	31.2