व्यावसायिक परीक्षण रिपोर्ट (वैरिएंट) संख्या/No. : T-1688/2219/2022 COMMERCIAL TEST REPORT (Variant) माह/Month : November, 2022

Application Reference No. 28/2022-23/32

(यह परीक्षण रिपोर्ट 30/11/2027 तक वैध है/THIS TEST REPORT IS VALID UPTO 30/11/2027)



INTERNATIONAL TRACTORS LIMITED, DI-35 RX CM PLUS S1 TRACTOR



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)

E-mail: fmti-mp@nic.in, Web site: http://www.fmttibudni.gov.in Telephone: 07564-299003

INTERNATIONAL TRACTORS LIMITED, DI-35 RX CM PLUS S1 TRACTOR – COMMERCIAL (VARIANT) THIS TEST REPORT IS VALID UPTO: 30/11/2027

1. BACKGROUND

- i) The INTERNATIONAL TRACTORS LIMITED, SONALIKA INTERNATIONAL DI-35 RX CM PLUS tractor had undergone "Initial Commercial Test" at this Institute vide Test Report No.T-991/1515/2015 (released in November, 2015).
- ii) Administrative Extension of INTERNATIONAL TRACTORS LIMITED, SONALIKA INTERNATIONAL DI-35 RX CM PLUS was released vide Test Report No. T-1399/1926/2020 (March, 2020).
- iii) Subsequently, first Batch Test Report of base model i.e. **INTERNATIONAL TRACTORS LIMITED, SONALIKA INTERNATIONAL DI 35 RX CM PLUS** tractor was released vide Test Report No. T-1623/2154/2022 (February, 2022).
- iv) 1st Technical Extension Report released vide Report No. T-1646/2177/2022 during May, 2022.
- v) On 20.10.2022, when the tractor viz. INTERNATIONAL TRACTORS LIMITED, SONALIKA INTERNATIONAL DI 35 RX CM PLUS tractor submitted for Batch Test & Technical Extension, was still in the Institute's campus only, the applicant came to apply for variant test, SONALIKA INTERNATIONAL DI 35 RX CM PLUS S1 tractor as the variant of SONALIKA INTERNATIONAL DI 35 RX CM PLUS tractor. The applicant was allowed for conversion from dry disc brakes to oil immersed brakes on the same tractor lying in the campus of Institute. There is, therefore, no need to conduct those tests as are required for conformity of sample as being the same as tested earlier. However, for complete information on performance of this tractor, above mentioned Test Reports are necessary adjuncts to this report.
- vi) After examination of the documents, only following tests were required to be conducted as laid down in IS: 12207-2019.
 - 1. Specification checking of variant feature i.e. Oil immersed brake
 - 2. Brake performance test

2. SPEIFICATIONS CHECKING OF VARIANT FEATURE

	S.No.	. Parameter		Base Model	<u>Variant Model</u>	<u>Remarks</u>	
ĺ	1	1 2		3	4	5	
	2.1.1	2.1.1 Tractor:				_	
		Make	:	International	International	No Change	
				Tractors Limited	Tractors Limited		
		Model	:	Sonalika	DI-35 RX CM	Changed	
				International DI-35	PLUS S1		
				RX CM PLUS			
		Type	:	Rear Wheel Drive,	Rear Wheel Drive	No Change	
				Standard	Standard		
				Agricultural Tractor	Agricultural Tractor		
		Month & Year of	:	06 / 2021	06 / 2021	No Change	
		manufacture					
		Chassis number	:	HYASR1073681S3	HYASR1073681S3	No Change	
		Country of Origin	:	India	India	No Change	
					!		

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6. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

6.1 On the basis of tests conducted the performance results have been summarized as evaluative (mandatory) and non-evaluation (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:-

SI. No.	С	haracteristic	(Eva /N	egory luative lon- uative)	as	uirements s per IS: 207-2019	tl r	ne app	eclared by plicant/rement		As observed		Whether variant model meets the require-
								del	Mod		model		ments(Y es/No.
1		2		3		4	5	а	5 k)	6 a	6 b	7
6.1.	Bra	ake performar	ice a	t 25 km	ph:								
a)		ximum stoppir	ng dis	stance a	t a fo	orce, equal	to or	less	than 6	1 00	on br	ake ped	lal with
		d ballast, (m):				1							
	1)	Cold bra		Evalua			10				0 (R)	8.29	Yes
	2)	Hot brak		Evalua			10	ı			0 (R)	9.00	Yes
b)		ximum force				Evaluati	VΔ	6	600		00 (R)	370	Yes
		celeration of 2.	5 m/s	· /		a Evaluativ		800		Ма	ximum	to 464	
c)	Whether parking brake is effective at a force of 600 N at foot pedal (s) or 400 N at hand lever			edal	Evaluati			Yes / No		Yes	Yes	Yes	
6.1.2	La	belling of trac	tors	(Provisi									
	1)	Make	E	Evaluativ	r	Should conform to the requirements of CMVR			International Tractors Limited			Yes	
	2)	Model		Evaluativ		along with			DI-3	5 RX	CM P	LUS S1	Yes
	3)	Month & Yea of manufacture	r E	Evaluativ	re y	PTO Power in kW and year of manufacture in numerical form. MM YY 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			06 / 21			Yes	
	4)	Engine number	E	Evaluativ	[box	3100FL14F1067824F3			Yes	
	5)	Chassis number		Evaluativ	f				HYASR1073681S3				Yes
	6)	Declaration PTO power (kW)		Evaluativ	e t			No.2	24.6			Yes	
		Specific fu consumption, (g/kWh)		Evaluativ	e N	Manufacturin		-			265		Yes
6.1.3	, , , , , , , , , , , , , , , , , , , ,												
(a)	_	erator manual		valuativ		rovided/No				vide		rovided	
(b)		rts Catalogue		valuativ		Provided/No				vide		rovided	
(c)		rkshop/Service Evaluative Provided/Not Provided Pro nual		vide	a F	Provided	Yes						

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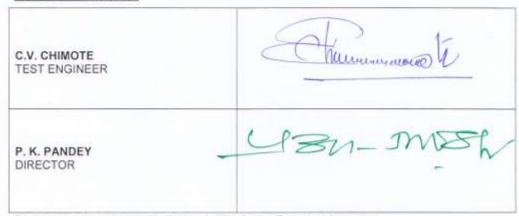
6.2	CATEGORY OF BREAKDOWNS / DEFECTS:							
SI.	Category of breakdowns	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2019	As observed	Whether meets the Requirements (Yes/No.)			
1.	Critical	Evaluative	No critical breakdown.	None	Yes			
2.	Major	Evaluative	Not more than two and neither of them should be repetitive in nature.	None	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 five, that is, (2 major + 3 minor) or 5 minor breakdowns.	None	Yes			

6.3 Adequacy of Literature supplied with machine:

- 6.3.1 The following literature was supplied with test sample for reference during the test.
 - a) Operator Instruction book of "International Tractors Limited, DI-35 RX CM PLUS S1" Tractor model.
 - Workshop Service manual (Part-I & II) of "International Tractors Limited, DI-35 RX CM PLUS S1" Tractor model.
 - Parts book of "International Tractors Limited, DI-35 RX CM PLUS S1" Tractor model.
- 6.3.2 The operator manual, parts catalogue & workshop service manual may be brought out for the guidance of users and service personnel as per IS:8132-1999 incorporating, inter alia, the following:
 - i) Safe hitch height of trailer
 - ii) Coolant water ratio

The results of the tests carried out on variant model "International Tractors Limited, DI-35 RX CM PLUS S1" tractor have been compared with those on base model "International Tractors Limited, Sonalika International DI-35 RX CM PLUS" tractor tested vide test report No. T-1623/2154/2022 (February, 2022) & found within the limit as specified in Indian Standard: 12207-2019.

TESTING AUTHORITY:



Draft test report compiled by: Partha Lodh, Senior Technical Assistant

T-1688/2219/2022

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7. APPLICANT'S COMMENTS

Para No.	Our reference	Applicant comments
7.1		Our comments on your valuable observations are Nil

ANNEXURE-I

TRACTOR RUN HOURS DURING TEST

A.	A. LABORATORY AND TRACK TESTS								
1.	Brake performance test								
В.	B. Miscellaneous test and other run hours, including idle run transportation, trial and preparation for test.								
	1.8								