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Test Report Valid Up To: 29/02/2012

COMMERCIAL TEST REPORT



TRACTOR OPERATED HYDRAULIC REVERSIBLE 3 BOTTOM MB PLOUGH (MODEL:SA3RP)





DEPARTMENT OF FARM POWER AND MACHINERY, Dr. PANJABRAO DESHMUKH KRISHI VIDYAPEETH, AKOLA (M.S.)-444 104

E-mail: fmtt28@gmail.com

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THE COMMERCIAL

PERSONA TEAM

Test Report Valid Up To: 29/02/2032

MANUFACTURER

WORKS, NEAR BULDHANA
URBAN WEAR HOUSE,
AKOLA ROAD AKOT, DIST.
AKOLA (M.S.) - 444 101

No PI/FMTT&PC/193/.... 12025

Report No.: Month: Year: IMP/FMT&TC, Dr. PDKV, AKOLA/2024-25/20/306 February 2025

FARM MACHINERY TESTING AND TRAINING CENTRE, DEPARTMENT OF FARM POWER AND MACHINERY, Dr. PANJABRAO DESHMUKH KRISHI VIDYAPEETH, AKOLA (M.S.)-444 104

(The Institute is approved Testing Center of Department of Agriculture & Cooperation, Ministry of Agriculture, GOI vide letter No. 8-1/2004-My(1&P) Dated 30th March 2012-Addendum)

FARM MACHINERY TESTING AND TRAINING CENTRE, Dr. PDKV, AKOLA - 444 104

COMMERCIAL

MONTH A YEAR

or Report Released; 17/02/2025

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Commercial

Test code referred

- IS:6288-1971 (Reaffirmed 2019) Test code for mould board plough
- IS:10691-1983 (Reaffirmed 2021) –Test code for share for tractor operated mould board ploughs

and of test

: May, 2024 to May, 2024

Less Report No.

: IMP/FMT&TC, Dr. PDKV, AKOLA/2024-25/20/306

Month & Year

: February & 2025

- 1) The results reported in this report are observed values and no corrections have been applied for atmospheric and site conditions.
- The data given in this report pertains to the particular machine submitted by the applicant for test.
- iii) The results presented in this report do not in any way attribute to durability of the machine.
- iv) The report should not be produced in part or full without prior permission of the Head, Department of Farm Power and Machinery, Dr. PDKV, Akola (M.S.)-444 104.

SELECTED CONVERSIONS

Sr. Units No.		Conversion Factor			
1	Force				
	1 kgf	9.87 N			
2	2.205 lbf				
2	Power				
	1 hp	1.014 metric hp (Ps)			
		745.7 W			
-	1 Ps	735W			
	1 kW	1.36 Ps			
3	Pressure				
	1 psi	6.895 kPa			
	1 kgf/cm ²	98.067 kPa = 735.56 mm of Hg			

INFORMENT TRACTOR OFFICE PROBABILITY AND EXCEPT A ROTTOM MR PLOCKER (MODEL X4187)

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MONTH A PEAK FERRI INT A 2474

SECRETARY OF PORT or Report Released, 17/02/2025

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Lest Report Valid Up To: 29/02/2032

TYPE OF MACHINE TRACTOR OPERATED HYDRAULIC

REVERSIBLE 3 BOTTOM MOULD BOARD

PLOUGH

SARJATM 1111

SA3RP 144711

MANUACHRIRBY M/S. SANDEEP AGRO WORKS, NEAR

BULDHANA URBAN WEAR HOUSE,

AKOLA ROAD AKOT, DIST. AKOLA (M.S.)

- 444 101

ITSTREQUESTED BY M/S. SANDEEP AGRO WORKS, NEAR

> BULDHANA URBAN WEAR HOUSE,

> AKOLA ROAD AKOT, DIST. AKOLA (M.S.)

- 444 101

FARM MACHINERY AND IEST CONDUCTED BY TESTING

TRAINING CENTRE, DEPARTMENT OF

FARM POWER AND MACHINERY,

Dr. PANJABRAO DESHMUKH KRISHI

VIDYAPEETH, AKOLA (M.S.) PIN -444 104

Test Report Valid top To. 25015

4.4	3.	200	hei	rail.	
	- 71		115.1	707	

Name and address of Name and address of Mrs. Sandeep Agro Works, Near Urban Wear House, Akola Road Akola (M.S.) - 444 101 I Mrs. Sandeep Agro Works, Near Urban Wear House, Akola Road Akola (M.S.) - 444 101 I Tractor Operated Hydraulic Res Serial No. Serial No.	
Urban Wear House, Akola Road Akola (M.S.) - 444 101 M/s. Sandeep Agro Works, Near Urban Wear House, Akola Road Urban Wear House, Akola Road Urban Wear House, Akola Road Type of Implement Tractor Operated Hydraulic Res Make Make SARJA TM	
Type of Implement I Tractor Operated Hydraulic Research Make SARJA TM Sandeep Agro Works, Near Works, Near Akola (M.S.) - 444 101 Tractor Operated Hydraulic Research SARJA TM	and a
Type of Implement Tractor Operated Hydraulic Research Make SARJA TM Sandeep Agro Works, Near Works, Near Akola (M.S.) - 444 101 Tractor Operated Hydraulic Research SARJA TM	Hotologia.
Tractor Operated Hydraulic Res Bottom Mould Board Plough Model SARJA TM	
Tractor Operated Hydraulic Res Bottom Mould Board Plough Model : SARJA TM	AL
. SAKJAIM	wol'D
. SAKJAIM	venier
	3
Serial No. : SA3RP	
No. of bottoms and size, mm	-
Year of manufacture : 3 x 303	-
Power source as recommended : 26 11 1 1 2024	-
Frame : 26.11 kW (35 hp) and above	/

Constructional Details:

It is fabricated from M.S. flats which serves as standard. Hitch pyramid and reverse mechanism of plough are also fitted on frame.

Particular	Size, mm	1000	
MS flat (Main frame)		Quantity, No.	
	1775 x 90 x 35	1	
	495 x 90 x 35	1	
MO O	370 x 90 x 35	1	
MS flat (for fixing shaft and middle support of frame)	182 x 75 x 20	2	
	144 x 75 x 15	2	

		IMPLEMENT THAT IS	H H	-	PERATEGITY DRAFT P FORE MER PERIODER NATRES	continues tonness
a!	MI A	Released: 17/02/2028			Test Report Va	alid Up Vo. 19/02/2032
310	net l	feleusen.			557 x 160 x 20	
1					1560 x 75 x 20	
	MS	s, flat (Side support)			1113 x 75 x 20	1
					275 x 126 x 12	2
					100000000000000000000000000000000000000	- I-
	SIA	ndard Numbers	:			ne bottom, out of which
	(n)	a) Numbers			one side of the standard	d is used at a time
	6)	Material	:	Mild steel		
	V/			Curved M.S. flat bolte	ed with the main frame	
raimensions, mm						Control of the contro
	d)	- Projected length			590	
I		- Curved length	1:	1	510	Sept.
		- Width		-	55.99	(1) (1) (1) (1) (1) (1)
		-At end -At middle	1:		94.41	
		- Thickness	I	:	36.10	
	e)	la Paraina of balas	1		3, (16.95 ¢-2 holes &	2 12.80 φ – 1 hole)&
	7.0	for fixing frog, mm	1		90.0, to 180.0	
	f)	o to Chalas Car Calas	1	-:-	2 & 16.95 ф	
	g)	and I color	1	***	Bolted and welded to	to M.S. flat with the m
	PI	lough Bottoms	1			THE REAL PROPERTY.
	a)		-1		: Six, out of which	only three are engage
			1		the soil at a time.	

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: 7.75

: 18.32

3 x 303

b)

c)

d)

e)

Type

Size of plough, mm

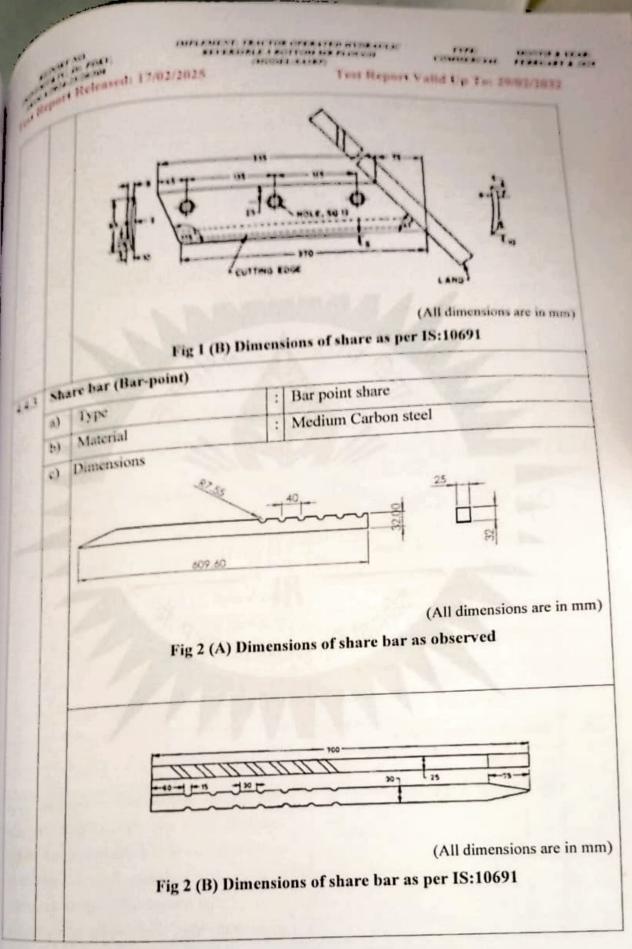
Vertical suction, mm

Horizontal suction, mm

Two-way (reversible)

coonsen whi Test Report Valid Up y

	0	Constructional details	-	It consists of mould board, share, the shin and landside bolted and welded and trog.			
4,4,1	Mi	ould Board	1				
	a)	Numbers		Six			
	213	Dise	-	General-purpose			
	(3)	Material	**	Mild steel			
	di	Dimensions, mm:-					
	100	- Length	:	475			
		- Width	:	257			
	1	- Thickness	:	8.24			
	e)	No. & size of hole on mould board, mm	:	3 & 9.46φ			
	t)	Method of fixing mould board		It is fixed to frog with four countersunk bolts to share.			
4.4.2	Sha	ire					
	a)	Туре	:				
	b)	Constructional details	:	: It is made up of low carbon steel flat h trapezoidal shape			
	c)	Method of fixing share to the bottom	bolts and welded to share bar and board.				
	d)	No. & size of holes on share, mm		: 2 & 9.23ф			
	e)	Dimensions Fig 1 (A) I	3	(All dimensions mensions of share as observed			



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(,	part Released: 17/0;	MITTAGENT THE TOP OFF BELLEVIET STATES	valid Up Tot 2	HARLAY:
11.13	Vide letter No. 13	22/2020-M&T (I&P), dated 12* Decem- culture and Farmer Welfare (Mechan- dity of the commercial test report of tra-	ter 2021 Cont. o	of India.
11,14	is 7 years. The applicant/man 30/2023-M&T (I& 30/2023 M&T (I&	p) (124416), Dated 12th September P), Dated 27th July 2023 Govt. of India.	sued vide letter 2023 & letter Ministry of Apien).	No. 13- No. 13- griculture
11,15	It is the sole respon	e (rectainment of the provided for testing including secommendations. This is a test resoft tractor operated hydraulic reversity	uggested mod	kind of

TESTING AUTHORITY:

Er. R. R. Gajbhiye Test Engineer	Pys
Dr. A. K. Kamble Asstt. Agril. Engineer	-dela-
Dr. A. V. Gajakos PI&Head, Deptt. of FPM	Apolios

This test report compiled by

Er. R. R. Gajbhiye (Test Engineer), FMT&TC, Deptt. of FPM, CAET, Dr. PDKV, Akola

APPLICANT'S COMMENTS

board plough.

We will follow the summary of observations comments and recommendations provided clause number 10.1 to 10.15 in a draft test report of tractor-operated hydraulic reversible 3 tom MB plough (Model: SA3RP) by FMT&TC, Dr. PDKV, Akola, during mass production his model.

FARM MACHINERY TESTING AND TRAINING CENTRE, Dr. PDKV, AKOLA - 444 104