

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)
COMMERCIAL TEST REPORT (Initial)

संख्या/No. : T-1647/2178/2022
माह/Month : May, 2022

(यहपरीक्षण रिपोर्ट 31/05/2025 तक वैध है/THIS TEST REPORT IS VALID UPTO 31/05/2025)



DEUTZ FAHR, AGROMAXX 4045E 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

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Manufacturer : M/s. SAME DEUTZ-FAHR INDIA (P) LTD.
72/ 72M, SIPCOT, Industrial Complex,
Ranipet – 632 403 , Tamil Nadu

Test requested by (applicant) : The manufacturer
Selected for test by : The testing authority
Place of running-in : At testing institute
Duration of said running-in, (h):
- Engine : Nil
- Transmission : 25 (as a tractor)
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.

Details of tractors made available for random selection	
Sr. No.	Chassis Serial Number
1	M1TFP22RDFG000322
2	M1TFP22RDHG000359
3	M1TFP22RDHG000360
4	M1TFP22RDHG000361
5	M1TFP22RDHG000363

1. SPECIFICATIONS

1.1 Tractor:
Make : Deutz Fahr
Model : Agromaxx 4045E
Type : Four-wheel driven (4WD), Standard Agricultural Tractor
Month & year of manufacture : 08/21
Chassis number : M1TFP22RDHG000360
Country of origin : India

1.2 Engine:
Manufacturer's address : M/s. Simpsons & Co. Ltd.
Huzur Garden, Sembiam, Chennai-600011
Make : M/s. Simpsons & Co. Ltd.
Model : T III A S327-F32
Type : Four stroke, naturally aspirated, liquid cooled, direct injection, diesel engine
Serial number : S32700405
Country of origin : India

1.2.1 Engine speed (rpm), (Manufacturer's recommended production settings):
- Maximum speed at no load : 2370 to 2465
- Low idle speed : 700 to 900
- Speed at maximum torque : 1200 to 1400
Rated speed, (rpm):
- For PTO use : 2200 ± 50
- For drawbar use : 2200 ± 50

1.3 Cylinder & Cylinder Head:
Number : Three
Disposition : Vertical, Inline
Bore/stroke, (mm) : 95/127

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16. ADJUSTMENTS, DEFECTS, BREAKDOWNS AND REPAIR

Sl. No.	Adjustments/Defects/Breakdowns and Repairs	Tractor run hours
1.	<p>During the hydraulic test, lifting capacity at hitch point was observed as 7.67 kN against the declaration of 12.3 kN which does not meet the evaluative requirement of IS: 12207-2019 with regard to tolerance limit.</p> <p>Upon this the applicant has requested vide letter No. AGROMAXX 4E/ ICT/014 dated 02.11.2021 for the replacement of "hydraulic oil filter (part No. 2.4419.797.0)" of same specification. The applicant's request for replacement of hydraulic filter was accepted and test was re-conducted.</p> <p>Even after doing so lifting capacity at hitch point was observed as 10.45 kN against the declaration of 12.3 kN, which does not meet the evaluative requirement of IS: 12207-2019 with regard to tolerance limit. This is the 2nd time of non compliance of evaluative requirement of lifting capacity at hitch point as per IS: 12207-2019.</p>	47.23
2.	<p>Upon this, the firm has requested vide letter No. AGROMAXX 4E/ ICT/016 dated 16.11.2021 to conduct the Repeat Test of Lifting capacity at hitch point by keeping lifting rod in 2nd hole of lower link, which was allowed as per the provisions contained in clause 3.1.2 (d) of IS: 12224-1987 & clause 4.1 of IS: 12207-2019.</p>	53.0

17. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

17.1 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: 12207-2019** for acceptance of the tractor for the purpose of subsidies/NABARD financing are summarized as under:

Sl. 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
17.1.1	PTO Performance :					
a)	Maximum power under 2 h test, (kW) (Natural ambient condition)	Evaluative	Declared value to be achieved with a tolerance of: $\pm 5\%$ for PTO power and or engine power > 26 kW. $\pm 10\%$ for PTO power and or engine ≤ 26 kW.	28.8 (D)	27.6	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	28.8(D)	27.4	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+ 10% max.	265 (D)	285	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	$\pm 8\%$	157 (D)	159	Yes

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1	2	3	4	5	6	7
e)	Back-up torque, percent	Evaluative	12 percent	12 (D) 12 (R)	33.7	Yes
f)	Maximum operating temperature, ($^{\circ}\text{C}$)					
	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.	150 (D)	91	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.	110 (D)	104	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. Power under High ambient conditions.	2.87 Maximum (R)	0.82	Yes
h)	Smoke 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).	3.25 Maximum (R)	0.08	Yes
17.1.2	Drawbar Performance :					
a)	Max. drawbar pull with ballasted corresponding to 15 percent wheel slip, (kN)	Non Evaluative	Minimum 70% of static mass of tractor with ballast.	21.06 (D) 21.77 Minimum (R)	26.37	Yes
b)	Max. drawbar pull without ballast 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.	13.08 (D) 13.78 (R) Minimum	18.26	Yes
c)	Maximum drawbar power without 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.	23 (D) 22.1 (R) Minimum	23.9	Yes
d)	Maximum transmission oil temperature, ($^{\circ}\text{C}$)	Evaluative	The declared value should not exceed the maximum value specified by oil company	120 (D)	89	Yes

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1	2	3	4	5	6	7	
17.1.3	Power lift and hydraulic pump performance :						
a)	Maximum lifting capacity throughout the range of lift, (kN):						
	1)	At hitch points	Evaluative	Tolerance of $\pm 10\%$	12.3 (D)	12.53	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.	7.0 (D)	12.20	Yes
					6.50 (R) Minimum		
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	05	Yes
17.1.4	Brake performance at 25 kmph:						
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)	7.94	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^2 , (N)		Evaluative	600	600 (R) Maximum	210 to 238	Yes
c)	Whether parking brake is effective at a force of 600 N at foot pedal (s) or 400 N at hand lever		Evaluative	Yes / No	Yes	Yes	Yes
17.1.5	Noise measurement :						
a)	Maximum ambient noise emitted by the tractor, dB(A)		Evaluative	As per CMVR	88 (R)	85	Yes
b)	Maximum noise at operator's ear level, dB(A)		Evaluative	As per CMVR	96 (R)	96	Yes
17.1.6	Amplitude of mechanical vibrations at:						
	1)	Left foot rest	Non Evaluative	100 microns (max.)	100(R)	104	No
	2)	Right foot rest				132	No
	3)	Seat (with driver seated)				202	No
	4)	Steering wheel				156	No
17.1.7	Air cleaner oil pull over :						
	Maximum air cleaner oil pull over, (%)		Evaluative	0.25 (Max.)	Dry type air cleaner fitted		Not applicable

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1	2	3	4	5	6	7
17.1.8	Haulage requirements :					
a)	Gross mass of the trailers, (tones):					
	1) Two wheel	Non	As specified by the manufacturer	4.0 (D)	4.0	Yes
	2) Four wheel	Evaluative		5.5 (D)	5.5	Yes
b)	Distance travelled / liter of fuel consumption, (km/l):					
	1) Two wheel	Non	As specified by the manufacturer	4.0 to 9.0 (D)	4.6	Yes
	2) Four wheel	Evaluative		4.0 to 9.0 (D)	4.24 to 4.45	Yes
c)	Fuel consumption, (ml/km/tonne):					
	1) Two wheel	Non	As specified by the manufacturer	20 to 80 (D)	54.4	Yes
	2) Four wheel	Evaluative		20 to 90 (D)	40.9 to 42.9	Yes
17.1.9	Wetland cultivation :					
	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 water and/or mud was observed	Yes
	1) Clutch assembly	-do-				
	2) Brake housings	-do-				
	3) Front axle hubs	-do-				
	4) Engine Oil	-do-				
	5) Transmission Oil	-do-				
17.1.10	Safety features :					
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)	Does not meet the requirement	No	
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)	Meets the requirement	Yes	
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	

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1	2	3	4	5	6	7		
h)	1) Maximum travelling speed at rated engine speed in reverse gears, kmph	Evaluative	Should not exceed 20 kmph		10.65 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 fitted	Not applicable		
17.1.11	Labelling of tractors (Provision of labelling plate):							
	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		DEUTZ-FAHR	Yes
MM	YY							
	2) Model	Evaluative			AGROMAXX 4045 E	Yes		
	3) Month & Year of manufacture	Evaluative			08 /21	Yes		
	4) Engine number	Evaluative			S32700405	Yes		
	5) Chassis number	Evaluative			M1TFP22RDH G000360	Yes		
	6) Maximum PTO power, (kW)	Evaluative		28.8	Yes			
17.1.12	Discard limit for:							
(a)	Cylinder bore diameter, (mm)	Evaluative	To be specified by the manufacturer and supported by the printed literature	95.202	95.000 to 95.012	Yes		
(b)	Clearance between piston & cylinder liner at skirt, (mm)	Non Evaluative		0.50	0.114 to 0.124	Yes		
(c)	Piston diameter at skirt, (mm)	Non Evaluative		Piston is discarded when ring groove clearance exceeds 0.25 mm with new rings	94.888 to 94.894	Yes		
(d)	Ring end gap (mm):							
	- Top comp. ring.	Evaluative	To be specified by the manufacturer and supported by the printed literature	1.5	0.35 to 0.40	Yes		
	- 2 nd comp. ring.			1.5	0.95 to 1.00	Yes		
	- Oil ring.			1.5	0.45 to 0.50	Yes		
(e)	Ring groove clearance (mm):							
	- Top comp. ring.	Evaluative	To be specified by the manufacturer and supported by the printed literature	--	Tapered rings	Not Applicable		
	- 2 nd comp. ring.			0.25	0.054 to 0.057	Yes		
	- Oil ring.			0.25	0.034 to 0.043	Yes		

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1	2	3	4	5	6	7
(f)	Clearance of main bearings (mm):					
	-	Diametrical clearance	Evaluative	To be specified by the manufacturer and supported by the printed literature	0.25	0.091 to 0.131
-	Crankshaft end float	Evaluative	0.50		0.22	Yes
(g)	Clearance of big end bearings, (mm):					
	-	Diametrical	Evaluative	-do-	0.25	0.071 to 0.132
-	Axial	Evaluative	-do-	0.75	0.35	Yes
(h)	Clearance between king pin and bush, (mm)	Non Evaluative	-do-	Ball bearings (SKF 6307 0808157T) are provided		Not Applicable
(i)	Clearance between centre pin and bush, (mm)	Non Evaluative	-do-	1.00	0.072 to 0.100	Yes
17.1.13	Literature (Submission to test agency):					
(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
17.1.14	Fitment of Roll Over Protective Structures (ROPS):					
	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 fitted	Not applicable
17.1.15	Standard Accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor		Provided	Yes
17.1.16	Accessories (optional)	Non Evaluative	Ballast weight, if fitted, should meet the requirement of CMVR		Not Provided	No

17.2 CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2019):					
Sl. No.	Category of break-downs	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 five 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 (1 major + 4 minor) or 5 minor breakdowns.	None	Yes

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17.3 Salient Observations:

17.3.1 Laboratory tests:

17.3.1.1 Hydraulic performance test:

- i) During the hydraulic test, lifting capacity at hitch point was observed as 7.67 kN against the declaration of 12.3 kN, which does not meet the evaluative requirement of IS: 12207-2019 with regard to tolerance limit.

Upon this the applicant has requested vide letter No. AGROMAXX 4E/ ICT/014 dated 02.11.2021 for the replacement of "hydraulic oil filter (Part No. 2.4419.797.0)" of same specification. The applicant's request for replacement of hydraulic filter was accepted and test was re-conducted.

Even after doing so lifting capacity at hitch point was observed as 10.45 kN against the declaration of 12.3 kN, which does not meet the evaluative requirement of IS: 12207-2019 with regard to tolerance limit. This is the 2nd time of non compliance of evaluative requirement of lifting capacity at hitch point as per IS: 12207-2019.

- ii) Upon this, the firm has requested vide letter No. AGROMAXX 4E/ ICT/016 dated 16.11.2021 to conduct the **Repeat test** of Lifting capacity at hitch point by keeping lifting rod in 2nd hole of lower link, which was allowed as per the provisions contained in clause 3.1.2 (d) of IS: 12224-1987 & clause 4.1 of IS: 12207-2019.
- iii) The moment about rear axle at standard frame was calculated as 19.70 kN-m whereas, the moment about front axle was calculated as 15.14 kN-m under unballasted condition. The moment about rear axle is on higher side as compared to the moment about front axle. This should be looked into for necessary corrective action
- iv) The angle through which the mast rotates over the full range of lift was observed as 5.5 degree against the requirements of 10 degrees as per IS 12224 – 1987 (Reaffirmed in 2019). This should be looked into for necessary corrective action at production level.

17.3.1.3 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 foot rest, steering control wheel and operator's seat to improve the operational comfort and service life of components.

17.3.1.4 Haulage Test:

The fuel consumption (ml/km/tonne) has been specified as 20 to 80 ml/km/tonne & 20 to 90 ml/km/tonne in case of two wheel & four wheel trailer respectively. The range is too wide to be plausible and therefore conveys little sense. It may be looked into for necessary corrective action

17.3.1.5 Operator's Seat:

- i) Vertical distance from SIP to center line of centre of clutch and brake pedal have been measured as 340 mm against the requirement of 380 to 620 mm
- ii) Longitudinal distance from SIP to center line of differential lock pedal has been measured as 300 mm against the requirement of 355 to 770 mm.
- iii) Longitudinal distance from SIP to center line of steering control wheel has been measured as 540 mm against the requirement of 425 to 525 mm.

Above parameters does not meet the requirement of IS: 12343-1998, (Re-affirmed in January, 2019). This should be looked into for necessary corrective action at production level.

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17.3.1.6 Operator's Manual:

- i) Oil grade of the steering system has been specified as "SDF UTTO" vide specification sheet. Whereas the same has been specified as "Servo Gear HP140" vide Page No. 51 of operator's manual. This should look into for necessary corrective action.

17.4 Maintenance / Service Problems:

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

17.5 Recommendation with regard to safety on tractor:

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

- i) Spark arrester should be provided in the exhaust system as per the requirement of IS: 12239 (Part-2)-1999 (Re-affirmed in January, 2019).
- ii) The working clearance between position and draft control lever of hydraulic system was measured as 30 mm against the minimum requirement 70 mm as per IS: 12239 (Part-2)-1999 (Re-affirmed in January, 2019).
- iii) Colour code of engine revolution gauge & water temperature gauge should be provided as per IS: 6283 (Part-1) – 2006 (Re-affirmed in January, 2019) & IS: 6283 (Part-2) – 2007 (Re-affirmed in January, 2019).
- iv) Fuel shut-off knob does not remain in "STOP" position as per requirement of IS: 8133-1983 (Re-affirmed in 2019).

17.6 Adequacy of Literature supplied with machine:

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



- a) Operator Manual of Agromaxx 4045 E, Agromaxx 4050 E, Agromaxx 4055 E & Agromaxx 4060 E tractor models.
- b) Parts catalogue for "Agromaxx 4045 E" tractor model.
- c) Workshop service manual of Agromaxx 4045 E & Agromaxx 4045 E tractor models.

17.6.2 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) Safe hitch height while using trailer.
- ii) Coolant water ratio.

17.6.3 Delay of 12 days occur during hydraulic test due to non supply of spare/component parts of tractor by the applicant.

TESTING AUTHORITY:

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

Draft test report is compiled by: Mrs. Poonam Khurasia, Senior Technical Assistant.

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18. APPLICANT'S COMMENTS

Para no.	Our reference	Applicant's comments
18.1	17.3.1.1, 17.3.1.3, 17.3.1.4, 17.3.1.5 & 17.5	Would be reviewed.
18.2	17.6.2	Suggestion is considered.

ANNEXURE- I

BRIEF SPECIFICATION OF MATCHING IMPLEMENTS AS DECLARED BY APPLICANT

S. No.	Parameters	Disc Plough	Rotavator
1	Make	Not available	Not available
2	Type	Mounted	Mounted
3	No. of Discs / Blades	Two	36
4	Type of Discs / Blades	Plain concave	Hatchet
5	Size of Discs / Blades, (mm)	585	250 x 80 x 7
6	Spacing of Discs /Flanges, (mm)	485	250
7	Lower hitch point span, (mm)	865	710
8	Mast height, (mm)	520	580
9	Overall Dimensions, (mm):		
	Length	1400	1035
	Width	950	1790
	Height	1150	950
10	Gross Mass, (kg)	245	315

ANNEXURE-II

BRIEF SPECIFICATION OF MATCHING CAGE WHEEL AS DECLARED BY APPLICANT

S. No.	Items	Specifications
1	Type	Full cage wheel
2	Diameter, (mm)	1220
3	Width, (mm)	900
4	No. and types of lugs	24, straight lugs made up of MS-angle section welded to angle iron frame.
5	Size of angle section, (mm)	45 x 45 x 5
6	Length of lugs, (mm)	445
7	Spacing of lugs, (mm)	310
8	Weight of each cage wheels (kg)	120

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ANNEXURE-III

BRIEF SPECIFICATION OF TRAILER DECLARED AS MATCHING TRAILER BY APPLICANT

S.No.	Item	Trailer	Trailer
1	Type of trailer	Semi - Trailer	Semi – Trailer
2	Number of axles	Single	Double
3	Un laden Weight of Trailer, kg	1670	2800
4	Overall dimensions of Trailer, (mm):		
	Overall Width	1920	1945
	Overall Length	4250	5200
	Overall Height	2025	2135
	Wheel Base	Not applicable	2165
	Wheel Track	1590	1590 (Front) &1575 (Rear)
5	Dimension of fitted Platform, (mm):		
	Length	3210	3655
	Width	1905	1825
	Height from ground	1165	1335
6	Brakes of Trailer	Provided	Provided

ANNEXURE-IV

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1	Running-in	25.0
2	PTO performance test	13.5
3	Power lift and hydraulic pump performance test	2.6
4	Drawbar performance test	16.6
5	Turning ability	0.4
6	Location of centre of gravity	0.2
7	Operator's field of vision	Nil
8	Brake test	2.0
9	Noise measurement	1.5
10	Mechanical vibration test	1.0
11	Nominal speed test	1.5
B.	FIELD TEST:	
1	Disc ploughing	11.8
2	Rotavation	10.8
3	Puddling (including 5.0 hours water proof test)	15.4
C.	HAULAGE TEST:	
D.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	20.4
	TOTAL:	122.6