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व्यावसायिक परीक्षण रिपोर्ट  
COMMERCIAL TEST REPORT (Initial Test)

संख्या / No. : T-1047/1572/2016  
माह / Month : November, 2016



**DEUTZ FAHR, 3040 E TRACTOR**



सत्यमेव जयते

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 AND FARMERS WELFARE)

केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान  
ट्रैक्टर नगर, बुदनी (म.प्र.) ४६६ ४४५

**CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE**  
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Page 1 of 50

<b>Manufacturer</b>	: M/s. SAME DEUTZ FAHR INDIA (P) LTD., 72M, SIPCOT Industrial Complex, Ranipet – 632403, Tamilnadu
Test requested by	: The manufacturer
Place of running-in	: At applicant's works.
Duration of said running-in, (h):	
- Engine	: 4
- Transmission	: 25
Method of Selection	: The tractor was submitted directly by the applicant for test. Hence, method of selection is not known.

## 1. SPECIFICATIONS

### 1.1 Tractor:

Make	: DEUTZ- FAHR
Model	: 3040 E
Type	: Four wheeled, rear-wheel driven, General purpose, Agricultural Tractor.
Year of manufacture	: 2015
Chassis number	: M1TT151RDDA000001
Country of origin	: India
Variants, if any *	: None

### 1.2 Engine:

Make	: SIMPSON
Model	: T III A S325.1-F2
Type	: Four stroke, naturally aspirated, water cooled, direct injection, diesel engine.
Serial number	: S325.1F71989

### 1.2.1 Engine speed(Manufacturer's recommended production setting), (rpm):

- Maximum speed at no load	: 2170 to 2230
- Low idle speed	: 600 to 750
- Speed at maximum torque	: 1100 to 1400

#### Rated speed, (rpm):

- For PTO use	: 2000
- For drawbar use	: 2000

### 1.3 Cylinder & Cylinder Head:

Number	: Three
Disposition	: Vertical, Inline
Bore/stroke, (mm)	: 91.4 / 127
Capacity as specified by the applicant, (cc)	: 2500
Compression ratio	: 18.5 ± 0.3 : 1
Type of cylinder head	: Monoblock
Type of cylinder liners	: Dry, replaceable

T-1047/1572/2016	DEUTZ FAHR 3040 E TRACTOR – Commercial (Initial)
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Clearance between centre pin and bushes, : 0.15 to 0.17 (mm) | Against the discard limit of 0.85 mm

**14.6 Steering system:**

Visual condition of the components of : Normal complete steering assembly

**14.7 Starter motor & Alternator:**

Presence of soil/oil in housing : None  
Condition of bearings and other components : Normal

**15. ADJUSTMENTS, DEFECTS, BREAKDOWNS AND REPAIRS**

Sl. No.	Adjustments/Defects/Breakdowns and Repairs	Categories of Breakdowns	Tractor run hours
	None	-	-

**16. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS**

**16.1** Evaluative (mandatory) / Non-evaluative (Non-mandatory) parameters applicable for qualifying Minimum Performance criteria as per Clause-4 (Table-1) of IS: 12207-2014 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: 12207-2014	Values declared by the applicant(D)/ Requirement (R)	As observed	Whether meets the requirements (Yes/No.)
1	2	3	4	5	6	7
<b>16.1.1</b>	<b>PTO Performance :</b>					
<b>a)</b>	Maximum power under 2 h test, (kW) (Natural ambient condition)	Evaluative	Declared value to be achieved with a tolerance of: -5 / +10% for PTO power >26 kW. -7.5/+10% for PTO power ≤ 26 kW or -5 / +10% for Engine power >26 kW. -7.5/+10% for Engine power ≤ 26 kW	25.5 (D)	26.1	Yes
<b>b)</b>	Power at rated engine speed, (kW)	Non Evaluative	-do-	25.5	26.1	Yes
<b>c)</b>	Specific fuel consumption corresponding to maximum power, (g/kWh)	Non Evaluative	+ 5%	255	263	Yes
<b>d)</b>	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	± 8%	145	150.69	Yes
<b>e)</b>	Back-up torque, percent	Non Evaluative	10 percent, min.	10 percent, min (R)	21.14	Yes

T-1047/1572/2016	<b>DEUTZ FAHR 3040 E TRACTOR – Commercial (Initial)</b>
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1	2	3	4	5	6	7	
<b>f)</b>	<b>Maximum operating temperature, (°C)</b>						
	1)	Engine oil	Non 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.	130 (D)	119	Yes
	2)	Coolant (water)	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.	115 (D)	85	Yes
<b>g)</b>	Engine oil consumption, (g/kWh)		Evaluative	Not exceeding 1% of SFC at max. power under High ambient conditions	2.65(R )	2.32	Yes
					1% of SFC (D)		
<b>h)</b>	Smoke level		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 per meter (R )	0.19	Yes
<b>16.1.2</b>	<b>Drawbar performance :</b>						
<b>a)</b>	Max. drawbar pull with ballast corresponding to 15 percent wheel slip, (kN)	Non Evaluative	Minimum 65% of static mass with ballast	15.7 (D)	19.20	Yes	
				16.0 (R) Minimum			
<b>b)</b>	Maximum drawbar pull without ballast corresponding to 15 percent wheel slip, (kN)	Evaluative	Minimum 65% of static mass of tractor without ballast	10.3 (D)	13.54	Yes	
				10.55 (R) Minimum			
<b>c)</b>	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.	20.4 (D)	25.1	Yes	
				20.9 (R) Minimum			
<b>d)</b>	Max. transmission oil temperature (°C)	Non Evaluative	The declared value should not exceed the maximum value specified by oil company	120 (D)	81	Yes	

T-1047/1572/2016	<b>DEUTZ FAHR 3040 E TRACTOR – Commercial (Initial)</b>
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1	2	3	4	5	6	7	
<b>16.1.3.</b>	<b>Power lift and hydraulic pump performance :</b>						
<b>a)</b>	Maximum lifting capacity throughout the range of lift, (kN):						
	1)	At hitch points	Non Evaluative	[Tolerance of minus 10%]	9.0 (D)	11.98	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	6.0 (D) 6.14 (R) (Minimum)	10.78	Yes
<b>b)</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	Observed value should not exceed 50 mm.	50 (D) 50 (R)	05	Yes
<b>16.1.4</b>	<b>Brake performance at 25 kmph:</b>						
<b>a)</b>	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 )	8.43	Yes
	2)	Hot brake	Evaluative	10	10 (R )	8.59	Yes
<b>b)</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)	330 to 334	Yes
<b>c)</b>	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 (R)	Yes	Yes
<b>16.1.5</b>	<b>Noise measurement:</b>						
<b>a)</b>	Maximum ambient noise emitted by the tractor dB(A)		Evaluative	As per CMVR	88 (R)	82	Yes
<b>b)</b>	Maximum noise at operator's ear level dB(A)		Evaluative	As per CMVR	96 (R)	94	Yes
<b>16.1.6</b>	<b>Amplitude of mechanical vibrations at :</b>						
	1)	Left foot rest	Non Evaluative	100 microns (max)	100 (R)	130	<b>No</b>
	2)	Right foot rest	Evaluative			100	Yes
	3)	Seat (with driver seated)	Non Evaluative	100 microns (max)	100 (R)	100	Yes
	4)	Steering Wheel	Non Evaluative	100 microns (max)	100 (R)	150	<b>No</b>

T-1047/1572/2016	DEUTZ FAHR 3040 E TRACTOR – Commercial (Initial)
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1	2	3	4	5	6	7
<b>16.1.7</b>	<b>Air Cleaner:</b>					
	Air cleaner oil pull over (%).	Non Evaluative	0.25% (maximum)	Dry type air cleaner is provided	NA	---
<b>16.1.8</b>	<b>Haulage requirements :</b>					
<b>a)</b>	Gross mass of the trailers, (tones):					
	1) Two wheel	Non Evaluative	--	4.0 (D)	4.0	Yes
	2) Four wheel		--	5.5 (D)	5.5	Yes
<b>b)</b>	Distance travelled / litre of fuel consumption, (km/l):					
	1) Two wheel	Non Evaluative	--	4.0 to 7.5 (D)	6.27 to 6.36	Yes
	2) Four wheel		--	4.0 to 7.5 (D)	5.55 to 5.70	Yes
<b>c)</b>	Fuel consumption (ml/km/tonne):					
	1) Two wheel	Non Evaluative	--	25 – 50 (D)	39 to 40	Yes
	2) Four wheel		--	25 – 60 (D)	32 to 33	Yes

<b>16.1.9</b>	<b>Wetland cultivation :</b>					
	Sealing for the following assemblies:	Evaluative	<p><b>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.</b></p>	There should be no ingress of water and/or mud	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-				
<b>16.1.10</b>	<b>Safety features :</b>					
<b>a)</b>	Guards against moving and hot parts	Evaluative	Belt drives, pulley, silencer, hydraulic pipes (As per IS 12239 part 2)	--	Provided	Yes
<b>b)</b>	Lighting arrangement	Evaluative	As per CMVR	--	Provided	Yes
<b>c)</b>	Seating requirement (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 conform</b>	<b>No</b>
<b>d)</b>	Technical requirements for PTO shaft	Non-Evaluative	Should meet the requirements of IS 4931 (as amended from time to time)	--	<b>Does not conform</b>	<b>No</b>
<b>e)</b>	Dimension of three point linkage	Non-Evaluative	Should meet the requirements of IS 4468 (part 1) (as amended from time to time)	--	<b>Does not conform</b>	<b>No</b>
<b>f)</b>	Specification of linkage and swinging drawbars	Non-Evaluative	Should meet the requirements of IS 12953 and IS 12362 (part 3) (as amended from time to time)	--	Conforms	Yes

T-1047/1572/2016	DEUTZ FAHR 3040 E TRACTOR – Commercial (Initial)
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1	2	3	4	5	6	7
<b>16.1.11</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 HP	--	DEUTZ - FAHR	Yes
	2) Model	Evaluative		--	3040 E	Yes
	3) Year of manufacture	Evaluative		--	2015	Yes
	4) Engine number	Evaluative		--	S325.1F71989	Yes
	5) Chassis number	Evaluative		--	M1TT151RDDA 000001	Yes
	6) Declaration of PTO power, (kW)	Evaluative		--	25.5	Yes

16.1.12	Discard limit for:					
(a)	Cylinder bore diameter, (mm)	Evaluative	To be specified by the manufacturer	91.68 (D)	91.482 to 91.492	Yes
(b)	Clearance between piston & cylinder liner at skirt, (mm)	Non Evaluative		0.50 (D)	0.145 to 0.174	Yes

(c)	Ring end gap (mm):					
	- Top comp. ring	Evaluative	-do-	1.5	0.40 to 0.50	Yes
	- 2 <sup>nd</sup> comp. ring		-do-	1.5	0.35 to 0.50	Yes
	- Oil ring		-do-	1.8	0.30 to 0.50	Yes

(d)	Ring groove clearance (mm):					
	- Top comp. ring	Evaluative	-do-	0.25	0.038 to 0.040	Yes
	- 2 <sup>nd</sup> comp. ring		-do-	0.25	0.022 to 0.037	Yes
	- Oil ring		-do-	0.25	0.048 to 0.049	Yes

(e)	Clearance of main bearings (mm):					
	- Diametrical clearance	Evaluative	-do-	0.50	0.073 to 0.120	Yes
	- Crankshaft end float	Evaluative		0.75	0.25	Yes

(f)	Clearance of big end bearings, (mm):					
	- Diametrical	Evaluative	-do-	0.50	0.061 to 0.098	Yes
	- Axial	Evaluative	-do-	0.75	0.30 to 0.35	Yes
(g)	Clearance between king pin and bush, (mm)	Non Evaluative	-do-	0.85	0.30 to 0.32	Yes
(h)	Clearance between centre pin and bush, (mm)	Non Evaluative	-do-	0.85	0.15 to 0.17	Yes

T-1047/1572/2016	DEUTZ FAHR 3040 E TRACTOR – Commercial (Initial)
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<b>16.1.13 Literature (Submission to test agency)</b>						
(a)	Operator manual	Evaluative	Provided/Not Provided	As per IS relevant Code (IS 8132)	Provided	Yes
(b)	Parts Catalogue	Evaluative	Provided/Not Provided		Provided	Yes
(c)	Workshop/ Service manual	Evaluative	Provided/Not Provided		Provided	Yes

<b>16.1.14 CATEGORY OF BREAKDOWNS / DEFECTS :</b>					
S. No.	Category of breakdowns	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2014	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 5 minor breakdowns.	None	Yes

<b>16.2 Optional requirements as per Clause-4 (Table-2) of IS:12207-2014:</b>				
S. No.	Characteristic	Requirements as per IS: 12207-2014	As observed	Whether meets the requirements (Yes/No.)
1.	Fitment of ROPS	With a provision for fitment of ROPS.	Not provided	No
		If ROPS fitted it should meet the requirement of IS: 11821-1992	Not provided	Not applicable
2.	Accessories	Trailer hitch, front tow hook, linkage drawbar may be provided.	Provided	Yes

**16.3 Conformity with following IS:**

- i) Guide lines for declaration of power and specific fuel consumption and labelling of agricultural tractors (First revision) [IS10273: 1987 (Reaffirmed 2009)] : **Conforms**
- ii) Agricultural tractors - Rear mounted power take-off - Types 1, 2 and 3 (third revision) [IS:4931-1995 (Reaffirmed 2009)] : **Does not conform**
- iii) Agricultural wheeled tractors - Three-point linkage: Part 2 Category 1N (Narrow Hitch) (Third Revision) [IS 4468 (Part-2):1993/ ISO 730-2:1979 (Reaffirmed 2009)] : **Does not conform**
- iv) Drawbar for agricultural tractors – Link type [IS 12953:1990 (Reaffirmed 2007)] : **Conforms**



<b>T-1047/1572/2016</b>	<b>DEUTZ FAHR 3040 E TRACTOR – Commercial (Initial)</b>
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- v) Agricultural tractors - Operator’s seat technical requirement : **Does not conform**  
[IS 12343 –1998 (First revision) (Reaffirmed 2009)]
- vi) Guide for safety & comfort of operator of agricultural tractors: : **Does not conform**  
Part 1 General requirements (first revision): [IS  
12239 (PT-1) 1996/ISO 4254-1:1989 (Reaffirmed 2009)]
- vii) Tractors and machinery for agriculture and forestry – : **Does not conform**  
Technical means for ensuring safety Part 2: Tractors (first  
revision) (IS 12239 (PT-2) 1999) (Reaffirmed 2009)]
- viii) Guide lines for location and operation of operator controls on : **Does not conform**  
agricultural tractors and machinery (first revision) IS: 8133-  
1983 (Reaffirmed 2009)]
- ix) Tractors and machinery for agriculture and forestry, powered : **Does not conform**  
lawn and garden equipment - Symbols for operator controls  
and other displays Part 2 Symbols for agricultural tractors and  
machinery [IS:6283 (Part-1)- 2006 and IS: 6283 (Part-2)-  
2007 (Reaffirmed 2009)]
- x) Agricultural Tractors and Machinery - Lighting device for : **Conforms**  
travel on public roads (IS: 14683-1999) (Reaffirmed 2009)]

**16.4 Salient Observations:**

**16.4.1 Laboratory tests:**

**16.4.1.1 PTO performance:**

- i) The maximum power was observed **26.1 kW** against the declaration of **25.5 kW**. Which is within the tolerance limit of IS: 12207-2014.
- ii) The specific fuel consumption corresponding to maximum power was measured as **263 g/kWh** against the declaration of **255 g/kWh**, which is within the tolerance limit of IS: 12207-2014.
- iii) The backup torque was observed as **21.4%**.

**16.4.1.2 Drawbar performance :**

- i) During ten hours drawbar test, the creeping on RHS rear tyre over the rim was observed 15 mm. This should be looked into for necessary corrective action.

**16.4.1.3 Hydraulic Performance**

- ii) The moment of tractor about rear axle with standard frame was observed as 14.98 kN-m, which is on higher side when compared to the moment of tractor about front axle i.e. 9.34 kN-m. in view of the above, it is recommended that necessary improvements may be incorporated to avoid the front lifting of the tractor.

**16.4.1.4 Mechanical vibration:**

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

**16.4.1.5 Three point linkage:**

The lateral distance from lower hitch point to center line of tractor does not meet the requirements of IS-4468-(Part I)-1997. This should be looked into for necessary corrective action.

**16.4.1.6 Specification of Power Take Off Shaft:**

The dimensions “d $\phi$ ” & “A $\phi$ ” of the PTO shaft does not meet the requirements of IS-4931-1995. This should be looked into for necessary corrective action.

**16.4.1.7 Operator’s Seat**

The dimension width of seat & distance from seat index point to the center of clutch pedals of operator’s seat does not meets the minimum requirements of IS: 12343-1998 (Re-affirmed in March, 2009). This should be looked into for corrective action.

**16.4.1.8 Operator’s work place:**

Operator’s work place meets the requirements of IS-12239(part-I)--1996.**except the** provision of spark arrester.

**16.4.1.9 Location and movement of operator’s controls:**

The fuel shut-off knob does not remain in stop position without application of sustain manual effort. This should be looked into for corrective action.

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

The working clearance around main gear shifting lever has not been provided as per IS: 12239(Part-II) 1999. This should be looked into for corrective action.

**16.4.2 Field performance test:****16.4.2.1 Wetland cultivation (Puddling operation):**

No ingress of mud and / or water was noticed during puddling operation of the tractor and meet the requirements of IS: 11082-1984 (Technical requirements of agricultural tractors for wetland operation). Therefore, the tractor is found suitable for wetland operation (Puddling).

**16.5 Maintenance / Service Problems:**

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

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

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

- i) Provision for spark arresting device in exhaust system.
- ii) The working clearance around main gear shifting levers should be provided as per the requirement of relevant Indian Standard.
- iii) The dimension width of seat & distance from seat index point to the center of clutch pedals of operator’s seat should be within the limit of easy handling of tractor.
- iv) The fuel shut-off knob does not remain in stop position without application of sustainable manual effort.
- v) The rear tyres should be guarded fully so that operator’s feet may not come in contact with the wheels.

T-1047/1572/2016

DEUTZ FAHR 3040 E TRACTOR – Commercial (Initial)



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

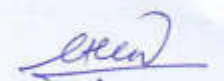
- 16.7.1** The following literature was supplied with the tractor for reference during the testing.
- Operator's Manual in respect of DEUTZ-FAHR 3040 E tractor.
  - Tractor Parts Catalogue in respect of DEUTZ-FAHR 3040 E tractor.
  - Service Manual in respect of DEUTZ-FAHR 3040 E tractor.
- 16.7.2** The literatures supplied by applicant should also in national as well as other regional languages for the guidance of users and service personnel.

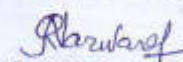
**17. Citizen charter**

Time frame for Testing & Evaluation as per Citizen Charter	Duration of Test	Whether the Test Report is released within the time frame given in Citizen Charter	Remarks
10 Months	15 Months (August, 2015 to October, 2016)	No	Due to non availability of field for testing /Rainy seasons

**TESTING AUTHORITY:**

  
C.V. CHIMOTE  
TEST ENGINEER

  
Y.K. RAO  
SENIOR AGRICULTURAL ENGINEER

  
J.J.R. NARWARE  
DIRECTOR

This test report is compiled by Shri. Shwetabh Singh, Senior Tech. Assistant

**18. APPLICANT'S COMMENTS**

Para No.	Our Reference	Applicant's comments
18.1	16.3 ii, iii (v), vi, vii, viii, & ix), 16.4.1.2, 16.4.1.3, 16.4.1.4, 16.4.1.5 & 16.4.1.10	Would be reviewed.
18.2	16.4.1.6 & 16.4.1.7	Will be taken up for necessary correction.
18.3	16.6 & 16.8.2	Recommendation is considered.
18.4	16.7.2	User manual available in English, Hindi, Tamil, Telgu & Canada. Attached copy of cover page for your reference.

CENTRAL FARM MACHINERY TRAINING &amp; TESTING INSTITUTE- BUDNI

Page 48 of 50

**ANNEXURE- I****BRIEF SPECIFICATION OF IMPLEMENTS USED DURING FIELD TEST**

S.No	Parameters	Disc Plough	Rotavator
1.	Make	Field king	Shaktiman
2.	Type	Mounted	Mounted
3.	No. of Disc/blades	02	30
4.	Type of Disc/blades	Plain concave	Hatchet
5.	Size of bottoms/blades, (mm)	650	215x75x5
6.	Spacing of bottoms/flanges, (mm)	565	250
7.	Lower hitch point span, (mm)	865	710
8.	Mast height, (mm)	615	465
9.	<b>Overall dimensions, (mm):</b>		
	- Length	1850	1035
	- Width	850	1790
	- Height	1200	960
10.	Gross mass, (kg)	300	295

**ANNEXURE – II****BRIEF SPECIFICATION OF FULL CAGE WHEEL**

S. No.	Parameters	Specifications
1.	Type	Full cage wheel
2.	Dia, (mm)	1210
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)	40 x 40 x 6
6.	Length of lugs, (mm)	444
7.	Spacing of lugs, (mm)	290
8.	Weight of each cage wheels (kg)	120

T-1047/1572/2016	DEUTZ FAHR 3040 E TRACTOR – Commercial (Initial)
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ANNEXURE- III

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	--
2.	PTO performance test	10.77
3.	Power lift and hydraulic pump performance test	2.92
4.	Drawbar performance test	15.95
5.	Turning ability	0.4
6.	Location of centre of gravity	-
7.	Operator's field of vision	-
8.	Brake test	2.41
9.	Noise measurement	1.50
10.	Mechanical vibration test	1.0
11.	Nominal speed test	0.92
<b>B.</b>	<b>FIELD TEST:</b>	
1.	Disc ploughing	10.50
2.	Rotavation	10.25
3.	Puddling (including 5 hrs water proof test)	15.17
<b>C.</b>	<b>HAULAGE TEST:</b>	5.55
<b>D.</b>	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	6.79
	<b>TOTAL:</b>	<b>84.13</b>