

## **ANNEXURES**

**Agricultural Engineering Data Book 2021**  
**ICAR- CENTRAL INSTITUTE OF AGRICULTURAL ENGINEERING**

**Annexure I**

**Horse Power-wise Models of Tractors and Power Tillers Available in India**

Sl. No.	Tractor company / model	Horse power (hp)
<b>1.0</b>	<b>New Holland Tractors, GautamBudh Nagar, Uttar Pradesh (<a href="https://agriculture.newholland.com">https://agriculture.newholland.com</a>)</b>	
1.1	Tractor Model-3032 NX	34
1.2	Tractor Model-3510	33
1.3	Tractor Model-3037 NX	35
1.4	Tractor Model-3037 TX	35
1.5	Tractor Model-4010	35
1.6	Tractor Model-3230 NX	39
1.7	Tractor Model-3230 TX	38
1.8	Tractor Model-3230 TX Super	38
1.9	3600-TX Heritage Edition	43
1.10	3600-TX Super Heritage Edition	47
1.11	Tractor Model-4710	43
1.12	Tractor Model Excel-4710	43
1.13	3600-2 Excel	49.5
1.14	3600-2 TX All Rounder Plus	49.5
1.15	3630 TX Super Plus+2WD & 4WD	49.5
1.16	Excel 5510	49.5
1.17	3630 TX Plus+	55
1.18	3630 TX Special Edition	55
1.19	5500 Turbo Super	55
1.20	5620 TX Plus	65
1.21	Excel 6510	65
1.22	6500 Turbo Super	65
1.23	5630 TX Plus	75
1.24	7500 Turbo Super	75
1.25	Excel 7510	75
1.26	Excel 8010	80
1.27	Excel 9010	90
1.28	TD 5.90	90
<b>2.0</b>	<b>Tractors &amp; Farm Equipment Ltd (Massey Ferguson), Chennai, Tamil Nadu (<a href="https://tafetractors.com">https://tafetractors.com</a>)</b>	
2.1	TAFE 1002	100
2.2	TAFE 1015	100
2.3	TAFE 9502	90
2.4	TAFE 9515	90
2.5	TAFE 8502	80
2.6	TAFE 8515	80
2.7	TAFE 7502	75
2.8	TAFE 7515	75
2.9	TAFE 6530	63
2.10	TAFE 5900 DI	60
2.11	TAFE 6015	60
2.12	TAFE 6300 DI	60
2.13	TAFE 9500	58

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Sl. No.	Tractor company / model	Horse power (hp)
2.14	TAFE 5450 DI	52
2.15	TAFE 8055	52
2.16	TAFE 42 DI EU	47
2.17	TAFE 45 DI	47
2.18	TAFE 45 DI EU	47
2.19	TAFE 7250 DI	47
2.20	TAFE 241 DI	42
2.21	TAFE 42 DI	42
2.22	TAFE 1038 DI	38
2.23	TAFE 35 DI	36
2.24	Mega Series TAFE 1015	100
2.25	TAFE 9515	90
2.26	TAFE 8515	80
2.27	TAFE 7515	75
2.28	TAFE 6015	60
2.29	HERITAGE SERIES TAFE 1002	100
2.30	TAFE 9502	90
2.31	TAFE 8502	80
2.32	TAFE 7502	75
2.33	TAFE 6530	63
2.34	TAFE 5900 DI	60
2.35	TAFE 6300 DI	60
2.36	TAFE 9500	58
2.37	TAFE 5450 DI	52
2.38	TAFE 8055	52
2.39	TAFE 42 DI EU	47
2.40	TAFE 45 DI	47
2.41	TAFE 45 DI EU	47
2.42	TAFE 7250 DI	47
2.43	TAFE 241 DI	42
2.44	TAFE 42 DI	42
2.45	TAFE 1038 DI	38
2.46	TAFE 35 DI	36
<b>3.0</b>	<b>Mahindra Gujarat Tractors, Vadodara, Gujarat (<a href="https://www.mahindractor.com">https://www.mahindractor.com</a>)</b>	
3.1	Mahindra 475 DI	42
3.2	Mahindra Yuvo 475DI	42
3.3	Mahindra JIVO 225 DI	20
3.4	Mahindra Yuvraj 215 NXT	15
3.5	Mahindra 225 DI Power Plus	25
3.6	Mahindra 265 DI	30
3.7	Mahindra Yuvo 275 DI	35
3.8	Mahindra 265 DI Power Plus	35
3.9	Mahindra 275 DI Eco	35
3.10	Mahindra Yuvo 415 DI	40
3.11	Mahindra 415 DI	40
3.12	Mahindra Yuvo 575 DI	45
3.13	Mahindra 585 DI	50
3.14	Arjun Novo 605 DI-I	57

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Sl. No.	Tractor company / model	Horse power (hp)
3.15	Arjun Novo 605 DI-I-4	57
3.16	Arjun Novo 605 DI-I with ac cabin	57
<b>4.0</b>	<b>Escort Tractors, Faridabad, Haryana (<a href="https://www.escortsgroup.com">https://www.escortsgroup.com</a>)</b>	
4.1	Escort Steeltrac	9.7
4.2	EscrotPowertrac 425	25
4.3	Escort Powertrac 425 N	25
4.4	Escort Powertrac 425 DS	25
4.5	Escort Farmtrac ATOM 26	26
4.6	Escort Ferrari K30 RS 4WD	26
4.7	Escort Powertrac 434 Ds Super Saver	34
4.8	Escort Powertrac 434	34
4.9	Escort Powertrac 434 DS	34
4.10	Escort Farmtrac XP-37 Champion	36
4.11	Escorts Powertrac434 DS Plus Euro 37	37
4.12	Escorts Powertrac ALT 3500	37
4.13	Escorts Powertrac Euro 37	37
4.14	Escorts Powertrac 434-PLUS	37
4.15	Escorts Powertrac 437	39
4.16	Escorts Powertrac 439 DS Super Saver 4WD	39
4.17	Escorts Powertrac 439 DS Plus	41
4.18	Escorts Powertrac ALT 4000	41
4.19	Escorts Farmtrac XP-41 Champion	41
4.20	Escorts Powertrac 439 DS Diesel Saver	41
4.21	Escorts powertrac Euro 41 4WD	41
4.22	Escorts Powertrac 439-PLUS	41
4.23	Escorts Farmtrac 45 CL VM PS	44
4.24	Escorts Powertrac EURO 42 PLUS	44
4.25	Escorts Farmtrac Champion XP 44	44
4.26	Escorts Powertrac 445 DS 4 WD	44
4.27	Escorts Powertrac Euro 45	45
4.28	Escorts Farmtrac 6045	45
4.29	Escorts Farmtrac 45 Classic	45
4.30	Escorts Farmtrac 45 Smart	45
4.31	Escorts Powertrac EURO 41 PLUS	45
4.32	Escorts Farmtrac 45 Executive Ultramaxx	47
4.33	Escorts Powertrac Euro 45 Plus 4 WD	47
4.34	Escorts Powertrac Euro 45 Plus	47
4.35	Escorts Farmtrac 60 Classic Valuemaxx	47
4.36	Escorts Powertrac 445 PLUS	47
4.37	Escorts Farmtrac 45 EPI Classic Pro (48 Hp , 14.9 T)	48
4.38	Escorts Farmtrac 60 EPI	49
4.39	Escorts Farmtrac 6055 Classic	50
4.40	Escorts Farmtrac 6055 Classic T 20	50
4.41	Escorts Farmtrac 6055 Classic F 20	50
4.42	Escorts Farmtrac 60 Classic Supermax	50
4.43	Escorts Farmtrac 6050	50
4.44	Escorts Farmtrac 6050 4X4 4WD	50
4.45	Escorts Powertrac Euro 50	50

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Sl. No.	Tractor company / model	Horse power (hp)
4.46	Escorts Farmtrac 60 Classic	50
4.47	Escorts Farmtrac 60 EPI T20	50
4.48	Escorts Farmtrac 60 EPI F20	50
4.49	Escorts Powertrac EURO 4455	50
4.50	Escorts Powertrac Euro 55	55
4.51	Escorts Powertrac 4455 DS + Euro	55
4.52	Escorts Farmtrac 6055 T20	55
4.53	Escorts Powertrac 4455 BT	55
4.54	Escorts Farmtrac 6060 Executive 4x4	60
4.55	Farmtrac 6055 POWERMAXX	60
4.56	Escorts powertrac 4455 BT+	60
4.57	Escorts Powertrac Euro 60	60
4.58	Escorts Farmtrac 6060 Executive	60
4.59	Escorts Farmtrac 6065 Supermaxx	65
4.60	Escorts Farmtrac 6065 Ultramaxx	65
4.61	Escorts Farmtrac 6065 Executive 4x4	65
4.62	Escorts Farmtrac 6080 Pro	80
<b>5.0</b>	<b>EICHER Tractors, Mandideep, Madhya Pradesh (<a href="https://eichertractors.in">https://eichertractors.in</a>)</b>	
5.1	Eicher 188	18
5.2	Eicher 5660	50
5.3	Eicher 557	50
5.4	Eicher 551	49
5.5	Eicher 548	48
5.6	Eicher 485	45
5.7	Eicher 480	42
5.8	Eicher 380	40
5.9	Eicher 368	38
5.10	Eicher 333 Super Plus	36
5.11	Eicher 364	35
5.12	Eicher 333	36
5.13	Eicher 312	30
5.14	Eicher 241	25
5.15	Eicher 242	25
<b>6.0</b>	<b>HMT Tractors, Panchkula, Haryana (<a href="http://www.hmtindia.com">http://www.hmtindia.com</a>)</b>	
6.1	HMT 2522	25
6.2	HMT 3022	30
6.3	HMT 3522	35
6.4	HMT 4511	45
6.5	HMT 5911	58
6.6	HMT 7511	75
6.7	HMT 2522 OS	25
6.8	HMT 3522 CS	35
6.9	HMT 3522 DX	35
6.10	HMT 4511 CS	45
6.11	HMT 4922 EDI	49
<b>7.0</b>	<b>John Deere (India) Tractors, Pune, Maharashtra (<a href="https://www.deere.co.in">https://www.deere.co.in</a>)</b>	
7.1	5038 D	38
7.2	5310	55

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Sl. No.	Tractor company / model	Horse power (hp)
7.3	5036 C	35
7.4	5039 C	39
7.5	5041 C	41
7.6	5042 C	42
7.7	5039 D	39
7.8	5042 D	42
7.9	5045 D	45
7.10	5050 D	50
7.11	5050 E	50
7.12	5055 E	55
7.13	5060 E	60
7.14	5065 E	65
7.15	5036 D	36
7.16	5105	40
7.17	5039 D Power Pro	44
7.18	5042 D Power Pro	46
7.19	5045 D Power Pro	46
7.20	5205	48
7.21	5050 D	50
7.22	5305 D	55
7.23	5210 GearPro 2WD & 4WD	50
7.24	5210 2Wd & 4WD	50
7.25	5310 2WD & 4WD	55
7.26	5060 2WD & 4WD	60
7.27	5405 2WD & 4WD	63
7.28	5065 2WD & 4WD	65
7.29	5075 2WD & 4WD	75
7.30	3022 EN 4WD	28
7.31	3036 EN 4WD	36
7.32	3036 E 4WD	36
7.33	6110 B 4WD	110
7.34	6120 B 4 WD	120
<b>8.0</b>	<b>Punjab Tractors Limited (Swaraj ), SAS Nagar, Punjab (<a href="https://www.swarajtractors.com">https://www.swarajtractors.com</a>)</b>	
8.1	Swaraj Tractors 735FE	39
8.2	Swaraj Tractors 855FE	55
8.3	Swaraj Tractors 744FE	48
8.4	Swaraj Tractors 735FE(old)	39
8.5	Swaraj Tractors 834FE	34
8.6	Swaraj Tractors 724FE	26.5
8.7	Swaraj Tractors 722 Super	24.5
8.8	Swaraj Tractors 841 XM	41
8.9	Swaraj Tractors 843 XM	43
<b>9.0</b>	<b>Sonalika international Tractors, Hoshiarpur, Punjab (<a href="https://www.sonalika.com">https://www.sonalika.com</a>)</b>	
9.1	Sonalika Tractors DI-60	60
9.2	Sonalika Tractors DI-730 II	30
9.3	Sonalika Tractors DI-750 II	50
9.4	Sonalika Tractors DI-75 4WD	75
9.5	Sonalika Tractors DI-740III	40

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Sl. No.	Tractor company / model	Horse power (hp)
9.6	Sonalika Tractor DI-60 Senior	60
9.7	Sonalika Tractor DI-60 4WD	60
9.8	Sonalika Tractor DI-35	35
9.9	Sonalika Tractor DI-745III	45
9.10	Baagban	30
9.11	DI 734(S1)	34
9.12	DI 734 S3	35
9.13	DI 35 S3	39
9.14	DI 740 III S3	45
9.15	DI 740 S3 Super	41.63
9.16	Sonalika Tractors DI-750 III	55
9.17	DI 745 III PP	45-50
9.18	DI 42RX	45
9.19	DI 47RX	50
9.20	DI 750III RX	55
9.21	DI 35 Rx	39
9.22	DI 745 III Rx PP	45-50
9.23	Worldtrac 75 RX 2W / 4W	75
9.24	Worldtrac 90 RX 2W / 4W	90
9.25	DI 740 III	44
9.26	DI 42 RX	45
9.27	DI-35	39
9.28	DI-42	42
9.29	RX-42	42
9.30	Mileage Master+39 (For Haryana)	39-40
9.31	Mileage Master+39 DI	39-40
9.32	Mileage Master 35 DI	35-37
9.33	DI 42 Chhatrapari	42
9.34	RX 42 Mahabali	42
<b>10.0</b>	<b>Force Tractors, Pune, Maharashtra (<a href="https://www.forcemotors.com">https://www.forcemotors.com</a>)</b>	
10.1	BALWAN 400	40
10.2	BALWAN 450	45
10.3	BALWAN 500	50
10.4	ORCHARD MINI	27
10.5	ORCHARD DLX	27
10.6	ORCHARD MINI	27
10.7	SANMAN 5000	45
10.8	SANMAN 6000	50
10.9	SANMAN 6000 LT	50
10.10	ABHIMAN 4X4	27
<b>11.0</b>	<b>Indo-Farm Tractors &amp; Motors Ltd., Solan, Himachal Pradesh (<a href="https://www.indofarm.in">https://www.indofarm.in</a>)</b>	
11.1	INDO FARM 1022 4WD	22
11.2	INDO FARM 1026 4WD	26
11.3	INDO FARM 2030 DI 2WD	34
11.4	INDO FARM 2035 DI 2WD	38
11.5	INDO FARM 2042 DI 2WD	45
11.6	INDO FARM 3035 DI 2WD	38
11.7	INDO FARM 3040 DI 2WD	45

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Sl. No.	Tractor company / model	Horse power (hp)
11.8	INDO FARM 3048 DI 2WD/4WD	50
11.9	INDO FARM 3055 NV 2WD/4WD	55
11.10	INDO FARM 3055 DI 2WD/4WD	60
11.11	INDO FARM 3065 DI 2WD/4WD	65
11.12	INDO FARM 3075 DI 2WD/4WD	75
11.13	INDO FARM 3090 DI 2WD/4WD	90
11.14	INDO FARM 4175 DI 2WD/4WD	75
11.15	INDO FARM 4190 DI 2WD/4WD	90
11.16	INDO FARM 4110 DI 2WD/4WD	110
<b>12.0</b>	<b>Captain Tractors Pvt. Ltd, Rajkot, Gujarat (<a href="https://captaintractors.com">https://captaintractors.com</a>)</b>	
12.1	120 DI	15
12.2	120 DI 4WD	15
12.3	200 DI 2WD	20
12.4	200 DI 4WD	20
12.5	250 DI	25
12.6	250 DI 4WD	25
12.7	273 4D (Stage V) Turf Tyre	25
12.8	273 4D (Stage V) AgriTyre	25
12.9	273 4D (Stage V) Flotation Tyre	25
12.10	273 4D (Stage V) Wider AgriTyre	25
12.11	280 4D	28
12.12	280 DX	28
<b>13.0</b>	<b>VST Tillers Tractors LTD, Bangalore, Karnataka (<a href="https://www.vsttractors.com">https://www.vsttractors.com</a>)</b>	
13.1	VST Shakti 932 DI	30
13.2	VST Shakti MT270 High Torque	27
13.3	VST Shakti Viraj XP 9054 DI	50
13.4	VST Shakti Viraj XT 9045 DI	45
13.5	VST Shakti Viraj X5 9042 DI	39
13.6	VST Shakti 5025 R Branson	47
13.7	VST Shakti MT 270 Vlraat 4W Plus	27
13.8	VST Shakti MT 225	22
13.9	VST Shakti MT 224 1D	22
13.10	VST Mitsubishi Shakti VT 224 10	22
13.11	VST Shakti VT-180 D HS/JAI-4W	18.5
13.12	VST Shakti MT 171 DI Samraat	17
<b>14.0</b>	<b>PREET Tractors, Nabha, Punjab (<a href="https://www.preet.co">https://www.preet.co</a>)</b>	
14.1	PREET 2549 2WD/4WD	25
14.2	PREET 3049 2WD/4WD	30
14.3	PREET 3549 2WD/4WD	35
14.4	PREET 4049 2WD/4WD	40
14.5	PREET 4549 2WD	45
14.6	PREET 955 2WD/4WD	50
14.7	PREET 6049 2WD/4WD	60
14.8	PREET 6549 2WD/4WD	65
14.9	PREET 7549 2WD/4WD	75
14.10	PREET 8049 2WD/4WD	80
14.11	PREET 4549 CR 4WD	45
14.12	PREET 9049	90
14.13	PREET 9049 AC	90

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Sl. No.	Tractor company / model	Horse power (hp)
14.14	PREET 10049 AC	100
<b>15.0</b>	<b>SAS Motors Limited, New Delhi (<a href="http://www.sasmotors.net">http://www.sasmotors.net</a>)</b>	
15.1	Angad 240-DI	22
<b>16.0</b>	<b>Action Construction Equipment (Tractors Division), Faridabad, Haryana</b>	
16.1	ACE350	
16.2	ACE450	
<b>17.0</b>	<b>Amar Tractors, Ludhiana, Punjab (<a href="https://amaragri.com">https://amaragri.com</a>)</b>	
17.1	Amar 240DI	
<b>18.0</b>	<b>Jayant Agro Industries, Rajkot, Gujarat</b>	
18.1	Mini Tractor	12
<b>19.0</b>	<b>Standards Combines(Tractor Division), Barnala, Punjab (<a href="https://standardcorp.in">https://standardcorp.in</a>)</b>	
19.1	Standard Tractor DI-335	35
19.2	Standard Tractor DI-345	45
19.3	Standard Tractor DI-355	55
19.4	Standard Tractor DI-450	50
19.5	Standard Tractor DI-460	60
19.6	Standard 475	75
19.7	Standard 490	90
<b>20.0</b>	<b>Zimidara Tractors Pvt Ltd., Barnala, Punjab</b>	
20.1	Bharat Track 3035	35
20.2	Bharat Track 3045	45
<b>21.0</b>	<b>Farmer Tractor, Rajkot, Gujarat (<a href="http://www.farmer.net.pl/en">http://www.farmer.net.pl/en</a>)</b>	
21.1	Mini Tractor	
<b>22.0</b>	<b>Field Marshal, Rajkot, Gujarat (<a href="http://www.fieldmarshal.com">http://www.fieldmarshal.com</a>)</b>	
22.1	Shridev 115	15
<b>23.0</b>	<b>Green Field Agro Equipment, Thane, Maharashtra(Samson) (<a href="https://www.greenfield.in">https://www.greenfield.in</a>)</b>	
23.1	Mini Tractor	
<b>24.0</b>	<b>SAME Deutz-Fahr India(P) Ltd.</b>	
24.1	Agrolux 50 2WD	45
24.2	Agrolux 60	55
24.3	Agrolux70	73
24.4	Agromaxx 55	50
24.5	Agromaxx 60	55
24.6	Agrolux 80 Profiline	80

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**Annexure II**

**Standards Referred for Testing of Tractors and Power Tillers**

Sl. No.	IS Number	IS Title	Category	Reaffirmation year
<b>Tractors</b>				
1	IS 10273 : 1987 (First Revision)	Guidelines for declaration of power and specific fuel consumption, and labelling of agricultural tractors (First Revision)	Code of Practice	2019, Jan
2	IS 10274 : 1993 (First Revision)	Agricultural wheeled tractors maximum travel speed - Method of determination (First Revision)	Methods of tests	2019, Jan
3	IS 10318 : 2002/ISO 5673 (First Revision)	Agricultural tractors and machinery - Power take - Off drive shafts and position of power - Input connection (First Revision)	Product Specification	2017, Oct
4	IS 10703 : 1992/ISO/TR 3778 (First Revision)	Agricultural tractors - Maximum actuating forces required to operate controls (First Revision)	Product Specification	2017, Oct
5	IS 10743 : 1983/ISO 789-6	Determination of centre of gravity of agricultural tractors	Methods of tests	2019, Jan
6	IS 11442 : 1996/ISO 5721 (First Revision)	Agricultural Tractors - Operator's Field of Vision - Test Procedures	Methods of tests	2017, Oct
7	IS 11821 : Part 1 : 2019/ISO 3463: 2006 (Second Revision)	Tractors for agriculture and forestry - Roll - Over protective structures (Rops): Part 1 dynamic test method and acceptance conditions (Second Revision)	Methods of tests	0
8	IS 11821 : Part 2 : 2018/ISO 5700 : 2013 (Second Revision)	Method of tests and acceptance conditions for protective structures of agricultural tractors: Part 2 static test (Second Revision)		0
9	IS 11822 : 1986	Methods of tests for spark arrester for agricultural tractors	Methods of tests	2017, Oct
10	IS 11859 : 2004	Agricultural tractors - Turning and clearance diameters - Methods of test (First Revision)	Methods of tests	2017, Oct
11	IS 12036 : 1995 (First Revision)	Agricultural tractors - Test procedures – Power tests for power take off (First Revision)	Methods of tests	2019, Jan
12	IS 12061 : 1994 (First Revision)	Agricultural tractors - Braking performance - Method of test (First Revision)	Methods of tests	2019, Jan
13	IS 12062 : 1987	Method for measurement of exhaust smoke emitted by agricultural tractors	Methods of tests	2019, Jan
14	IS 12180 : 1987	Method for noise measurement of agricultural tractors	Methods of tests	2016, Oct
15	IS 12180 : Part 1 : 2000 (First Revision)	Tractors and machinery for agriculture and forestry - Noise measurement - Method of test: Part 1 noise at the	Methods of tests	2017, Oct

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Sl. No.	IS Number	IS Title	Category	Reaffirmation year
		operator's position - Survey method (First Revision)		
16	IS 12180 : Part 2 : 2000 (First Revision)	Tractors and machinery for agriculture and forestry - Noise measurement - Method of test: Part 2 noise emitted when in motion (First Revision)	Methods of tests	2017, Oct
17	IS 12207 : 2019 (Fourth Revision)	Agricultural tractors - Recommendations on selected performance characteristics (Fourth Revision)	Others	0
18	IS 12224 : 1987/ISO 789-2	Method of test for hydraulic power and lifting capacity of agricultural tractors	Methods of tests	2019, Jan
19	IS 12226 : 1995 (First Revision)	Agricultural tractors - Power tests for drawbar - Test procedure (First Revision)	Methods of tests	2019, Jan
20	IS 12239 : Part 2 : 1999 (First Revision)	Tractors and machinery for agriculture and forestry - Technical, means for ensuring safety: Part 2 tractors (First Revision)	Code of Practice	2019, Jan
21	IS 12343 : 1998 (First Revision)	Agricultural tractors - Operators seat technical requirements	Product Specification	2019, Jan
22	IS 12362 : Part 1 : 2007/ISO 6489-1 (Second Revision)	Agricultural vehicles - Mechanical connections between towed and towing vehicles august 2007: Part 1 dimensions of hitch - Hooks (Second Revision)	Product Specification	2017, Oct
23	IS 12362 : Part 3 : 1994/ISO 6489-3 (First Revision)	Agricultural vehicles - Mechanical connections on towing vehicles: Part 3 tractor drawbar (First Revision)	Product Specification	2019, Jan
24	IS 12363 : 1988	Recommendation on track width of agricultural tractors	Dimensions	2019, Jan
25	IS 12953 : 1990	Drawbar for agricultural tractors - Link type - Specification	Product Specification	2017, Oct
26	IS 13548 : 1992/ISO 5008	Agricultural wheeled tractors and field machinery - Measurement of whole - Body vibration of the operator	Methods of tests	2017, Oct
27	IS 13549 : 1992/ISO 5676	Tractors and machinery for agriculture and forestry - Hydraulic coupling - Braking circuits	Product Specification	2017, Oct
28	IS 13581 : 1993/ISO 5007	Agricultural wheeled tractors - Operator's seat - Laboratory measurement of transmitted vibration	Methods of tests	2019, Jan
29	IS 13642 : 1993	Agricultural tractors - Silencers technical requirements	Product Specification	2019, Jan
30	IS 13732 : 1993/ISO 5675	Agricultural tractors and machinery - General purpose quick - Action hydraulic couplers	Product Specification	2019, Jan
31	IS 14414 : 1996/ISO 789-7	Agricultural tractors - Axle power determination - Test procedures	Methods of tests	2017, Oct
32	IS 14683 : 1999	Agricultural tractors and machinery - Lighting devices for travel on public roads	Product Specification	2019, Jan

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Sl. No.	IS Number	IS Title	Category	Reaffirmation year
33	IS 14980 : Part 1 : 2001/ISO 8759-1	Agricultural wheeled tractors - Front - Mounted equipment: Part 1 power take - Off and three - Point linkage	Product Specification	2017, Oct
34	IS 14980 : Part 2 : 2001/ISO 8759-2	Agricultural wheeled tractors - Front - Mounted equipment: Part 2 stationary equipment connections	Product Specification	2017, Oct
35	IS 16820 : Part 1 : 2018/ISO 12003-1:2008	Agricultural and forestry tractors roll - Over protective structures on narrow - Track wheeled tractors: Part 1 front - Mounted rops	Product Specification	0
36	IS 16820 : Part 2 : 2018/ISO 12003-2 : 2008	Agricultural and forestry tractors - Roll - Over protective structures on narrow - Track wheeled tractors: Part 2 rear mounted rops	Product Specification	0
37	IS 16821 : 2018/ISO 6683 : 2005	Earth - Moving machinery - Seat belts and seat belt anchorages - Performance requirements and tests	Methods of tests	0
38	IS 16952 : Part 1 : 2018/ISO 3776-1 : 2006	Tractors and machinery for agriculture - Seat belts: Part 1 anchorage location requirements		0
39	IS 16952 : Part 2 : 2018/ISO 3776-2: 2013	Tractors and machinery for agriculture - Seat belts: Part 2 anchorage strength requirements	Others	0
40	IS 16952 : Part 3 : 2018/ISO 3776-3 : 2015	Tractors and machinery for agriculture - Seat belts: Part 3 requirements for assemblies		0
41	IS 17231 : 2019/ISO 730 : 2009	Agricultural wheeled tractors - Rear - Mounted three - Point linkage - Categories 1N, 1, 2N, 2, 3N, 3, 4N and 4	Product Specification	0
42	IS 4468 : Part 1 : 1997 (Fourth Revision)	Agricultural wheeled tractors - Rear-mounted three-point linkage: Part 1 Categories 1, 2 3 & 4	Product Specification	2017, Oct
43	IS 4468 : Part 2 : 1993/ISO 732-2 (Third Revision)	Agricultural wheeled tractors - Three-point linkage: Part 2 Category 1 N (Narrow Hitch)	Product Specification	2019, Jan
44	IS 4931 : 1995 (Third Revision)	Agricultural tractors - Rear mounted power take off types 1, 2 and3 (Third Revision)	Product Specification	2019, Jan
45	IS 5994 : 1998 (Third Revision)	Agricultural tractors – Test code (Third Revision)	Methods of tests	2019, Jan
46	IS 6840 : 2013 (First Revision)	Preventive maintenance of agricultural wheeled tractors - Code of practice (First Revision)	Code of Practice	2017, Oct
47	IS 6847 : 1995 (First Revision)	Code of practice for installation of agricultural wheeled tractor (First Revision)	Code of Practice	2019, Jan
48	IS 8133 : 1983/ISO 3789 (First Revision)	Guidelines for location and operation of operator controls on agricultural tractors and machinery (First Revision)	Code of Practice	2019, Jan

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Sl. No.	IS Number	IS Title	Category	Reaffirmation year
49	IS 8265 : 1996 (Second Revision)	Agricultural tractors - Guards for power take - Off (PTO) drive - Shafts (Second Revision)	Product Specification	2017, Oct
50	IS 9253 : 2013 (Third Revision)	Agricultural wheeled tractors - Field performance and haulage tests - Guidelines (Third Revision)	Methods of tests	2019, Jan
51	IS 9864 : 1981	Guidelines for stocking spare parts of agricultural tractors	Code of Practice	2017, Oct
52	IS 9869 : 1981	Technical requirements for power take - Off pulley for agricultural tractors with type 1 PTO shaft	Product Specification	2017, Oct
<b>Power Tiller</b>				
53	IS 9939 : 1981	Glossary of terms relating to agricultural tractors and power tillers	Terminology	2019, Jan
54	IS/ISO 789 : PART 8 : 1991/ISO 789 : PART 8 : 1991	Agricultural tractors - Test procedures: Part 8 engine air cleaner	Methods of tests	2016, Oct
55	IS 11858 : 1986	Specification for handle grip for power tiller	Product Specification	2017, Oct
56	IS 13064 : 1991	Power tillers - Installation and preventive: maintenance – Guidelines	Code of Practice	2017, Oct
57	IS 9935 : 2002 (Second Revision)	Power tiller - Test code (Second Revision)	Methods of tests	2017, Oct
58	IS 9980 : 1988 (First Revision)	Guidelines for field performance and haulage tests of power tillers (First Revision)	Methods of tests	2019, Jan

Source: <https://www.services.bis.gov.in:8071/php/BIS/PublishStandards/images/opr.jpg>. Accessed on 04.01.2021.

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**Annexure III**

**Standards Referred for Testing of Farm Implements and Machinery**

Sl. No.	IS Number	IS Title	Category	Reaffirmation year
1	IS 10134: 1994 (First Revision)	Methods of test for manually - Operated sprayers (First Revision)	Methods of tests	2019, Jan
2	IS 10225: 1982	Specification for bearing spools for tractor - Operated - disc harrows	Product Specification	2019, Jan
3	IS 10233: 1982	Specification for tractor - Operated disc ploughs	Product Specification	2019, Jan
4	IS 10239: 1982	Specification for blade for tractor - Operated scraper	Product Specification	2019, Jan
5	IS 10254: 1982	Specification for share for animal - Drawn ridger	Product Specification	2019, Jan
6	IS 10282: 1982	Specification for cage wheel for power tillers	Product Specification	2019, Jan
7	IS 10378: 1982	Specification for knife back for harvesting machines	Product Specification	2016, Oct
8	IS 10683: 1983	Specification for khurpi	Product Specification	2019, Jan
9	IS 10684: 1983	Specification for tree pruner	Product Specification	2016, Oct
10	IS 10691: 1983	Specification for share for tractor - Operated mould board ploughs	Product Specification	2016, Oct
11	IS 10740: 1983	Recommendation for operating requirement for power take-off driven implements	Code of Practice	2019, Jan
12	IS 10747: 1983	Dimensions of hitch for power tillers	Dimensions	2019, Jan
13	IS 10806: 2003 (First Revision)	Trailers for power tillers - Specification (First Revision)	Product Specification	2016, Oct
14	IS 11033: 1984	Specification for animal drawn potato digger, ridger type	Product Specification	2016, Oct
15	IS 11081: 1993 (First Revision)	Agricultural tractors - Half cage wheel - Specification (First Revision)	Product Specification	2019, Jan
16	IS 11082: 1984	Technical requirements of agricultural tractors for wet land cultivation	Product Specification	2017, Oct
17	IS 11204: 1985	Specification for sugarcane harvesting	Product Specification	2016, Oct
18	IS 11234: 1985	Test code for power thresher for ground nut	Methods of tests	2016, Oct
19	IS 11235: 1985	Test code for ground nut digger, animal draw	Methods of tests	2016, Oct
20	IS 11269: 1985	Specification for axle assembly for conventional animal - Drawn vehicles	Product Specification	2019, Jan
21	IS 11270: 1985	Technical requirements for ring - Type hitches for agricultural trailers	Product Specification	2019, Jan
22	IS 11271: 1985	Specification for groundnut planter	Product Specification	2016, Oct
23	IS 11272: 1985	Glossary of terms relating to horticultural equipment	Terminology	2016, Oct

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Sl. No.	IS Number	IS Title	Category	Reaffirmation year
24	IS 11313: 2007	Hydraulic power sprayers - Specification (First Revision)	Product Specification	2017, Oct
25	IS 11429: 1985	Methods for calibration of sprayers	Methods of tests	2019, Jan
26	IS 11467: 1985	Test code for cereal - Harvesting machines	Methods of tests	2017, Oct
27	IS 11531: 1985	Test code for puddler	Methods of tests	2016, Oct
28	IS 11580: 1986	Glossary of terms relating to forestry equipment	Terminology	2019, Jan
29	IS 11691: 1986	Specification for power thresher, spike tooth type	Product Specification	2019, Jan
30	IS 11893: 1986	Specification for potato planter, semi-automatic	Product Specification	2017, Oct
31	IS 11905: 1986	Specification for shaft assembly for rotavator for power tiller	Product Specification	2016, Oct
32	IS 11976: 1986	Specification for sugarcane planter, semi-automatic	Product Specification	2017, Oct
33	IS 12161: 1987	Test code for animal carts	Methods of tests	2019, Jan
34	IS 12162: 1987	Specification for lifting hook	Product Specification	2019, Jan
35	IS 12163: 1987	Specification for cant hook	Product Specification	2019, Jan
36	IS 12164: 1987	Specification for log tongs	Product Specification	2019, Jan
37	IS 12191: 1987	Specification for felling wedges	Product Specification	2019, Jan
38	IS 12199: 1987	Pneumatic-wheeled Animal Drawn Vehicle	Product Specification	2019, Jan
39	IS 12334: 1988	Specification for tractor mounted bund former	Product Specification	2019, Jan
40	IS 12337: 1988	Specification for manually operated fertilizer broadcaster	Product Specification	2019, Jan
41	IS 12371: 1988/ISO 5670	Technical requirements for single acting telescopic tipping cylinders for agricultural trailers	Product Specification	2019, Jan
42	IS 12409: 1988	Specification for garden sword	Product Specification	2019, Jan
43	IS 12482: 1988	Methods of test for manually operated dusters	Methods of tests	2019, Jan
44	IS 12627: 1989	Forestry tools - Loop handles, two men cross cut saws – Specification	Product Specification	2019, Jan
45	IS 12651: 1989	Forestry tools - Setting anvil for raker toothed two-men cross cut saws - Specification	Product Specification	2019, Jan
46	IS 12652: 1989	Forestry tools - Raker adjuster - Cum - Setting iron for two - Men cross cut saws specification	Product Specification	2019, Jan
47	IS 12653: 1989	Rubber tapping tools - Coagulation tray - Specification	Product Specification	2019, Jan
48	IS 12696: 1989	Forestry tools - Setting pliers, bow saw blade - Specification	Product Specification	2019, Jan

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Sl. No.	IS Number	IS Title	Category	Reaffirmation year
49	IS 12697: 1989	Forestry tools - Setting hammer raker toothed two-men cross cut saws - Specification	Product Specification	2019, Jan
50	IS 12698: 1989	Forestry tools - Tree marking digit set - Specification	Product Specification	2019, Jan
51	IS 12703: 1989	Forestry tools - Tree marking hammers - Specification	Product Specification	2019, Jan
52	IS 12704: 1989	Forestry tools - Wooden jointer for bow saw blade – Specification	Product Specification	2019, Jan
53	IS 12917: Part 1: 1990	Farm transport equipment conventional animal drawn vehicle - Specification: Part 1 cattle, donkey and mule	Product Specification	2019, Jan
54	IS 12917: Part 2: 1991	Farm transport equipment conventional animal drawn vehicle - Specification: Part 2 camel	Product Specification	2019, Jan
55	IS 13151: 1991	Forestry tools - Two men Log tongs - Specification	Product Specification	2016, Oct
56	IS 13373: 1992	Horticultural equipment - Grass shear - Specification	Product Specification	2019, Jan
57	IS 13374: 1992	Forestry tools - Handsappie, nursery(Kutla) - Specification	Product Specification	2019, Jan
58	IS 13376: 1992	Forestry tools - Debarking spud - Specification	Product Specification	2019, Jan
59	IS 13377: 1992	Forestry tools - Shrub cutting knife - Specification	Product Specification	2019, Jan
60	IS 13378: 1992	Forestry tools - Felling lever – Specification	Product Specification	2019, Jan
61	IS 13485: Part 1: 1992	Forestry tools - Stalk puller – Specification	Product Specification	2019, Jan
62	IS 13485: Part 2: 1998	Forestry tools - Stalk puller specification: Part 2 heavy duty	Product Specification	2019, Jan
63	IS 13539: 2018 (Second Revision)	Power tiller - Recommendations on selected performance and other characteristics (Second Revision)	Others	0
64	IS 13733: 1993/ISO 5669	Agricultural trailers and trailed equipment - Braking cylinders - Specifications	Product Specification	2019, Jan
65	IS 13818: 1993	Harvesting equipment - Tractor operated potato digger shakers – Test code	Methods of tests	2019, Jan
66	IS 13821: 1993	Forestry tools - Wooden fitting vice - Specification	Product Specification	2019, Jan
67	IS 14459: 1997	Crop protection equipment - Battery operated rotary atomiser disc type ULV sprayer specification	Product Specification	2019, Jan
68	IS 14523: 1998	Forestry tools - Dibbling board - Specification	Product Specification	2019, Jan
69	IS 14524: 1998	Forestry tools - Dibble iron - Specification	Product Specification	2019, Jan
70	IS 14525: 1998	Forestry tools - Seed pluciser - Specification	Product Specification	2019, Jan

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Sl. No.	IS Number	IS Title	Category	Reaffirmation year
71	IS 14526: 1998	Forestry tools - Plant carrier - Specification	Product Specification	2019, Feb
72	IS 14540: 1998	Inter-cultivation equipment - Hand hoes specification	Product Specification	2019, Jan
73	IS 14541: 1998	Forestry and plantation tools - Hoes and forks - Specification	Product Specification	2019, Jan
74	IS 14855: Part 1: 2000	Plant protection and vector control equipment - Fogging machines - Specification: Part 1 pulse - Jet - Type thermal fogger	Product Specification	2016, Oct
75	IS 14855: Part 2: 2001	Plant protection and vector control equipment - Fogging machines - Specification: Part 2 air - Blower type thermal fogger	Product Specification	2016, Oct
76	IS 15805: Part 1: 2008	Straw reaper - Combine - Test code: Part 1 terminology	Product Specification	2019, Jan
77	IS 15805: Part 2 : 2008	Straw reaper - Combine test code: Part 2 performance tests	Methods of tests	2018, Jun
78	IS 15806: 2018 (First Revision)	Combine harvester - Recommendations on selected performance and other characteristics (First Revision)	Others	0
79	IS 15918: 2011/ISO 4102:1984	Equipment for crop protection - Sprayers - Connection threading	Product Specification	2016, Oct
80	IS 15919: 2012/ISO 9898: 2000	Equipment for crop protection - Test methods for air-assisted sprayers for bush and tree crops	Methods of tests	2017, Oct
81	IS 15920: 2012	Equipment for crop protection - Sprayer nozzles - Colour coding for identification	Product Specification	2017, Oct
82	IS 15921: 2011/ISO 14710:1996	Equipment for crop protection - Air - Assisted sprayers - Dimensions of nozzle swivel nuts	Dimensions	2016, Oct
83	IS 15923: Part 1 : 2011/ISO 22369 Part 1:2006	Equipment for crop protection - Drift classification of spraying equipment: Part 1 classes	Terminology	2016, Oct
84	IS 15924: 2011/ISO 22866 : 2005	Equipment for crop protection - Methods for field measurement of spray drift	Methods of tests	2016, Oct
85	IS 17045: 2018	Rotary tiller (Rotavator) - Tractor driven - Test procedure, and recommendations on selected performance characteristics	Others	0
86	IS 17156: Part 1: 2019	Cotton Picker Machine Part 1 Terminology	Terminology	0
87	IS 17156: Part 2: 2020	Cotton Picker Machine Part 2 Performance Test	Others	0
88	IS 17310: Part 1: 2019/ISO 16119-1: 2013	Agricultural and Forestry Machinery Environmental Requirements for Sprayers Part 1 General	Methods of tests	0

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Sl. No.	IS Number	IS Title	Category	Reaffirmation year
89	IS 17310: Part 2: 2019/ISO 16119-2: 2013	Agricultural and Forestry Machinery Environmental Requirements for Sprayers Part 2 Horizontal Boom Sprayers	Product Specification	0
90	IS 17310: Part 3: 2019/ISO 16119-3: 2013	Agricultural and Forestry Machinery Environmental Requirements for Sprayers Part 3 Sprayers for Bush and Tree Crops	Product Specification	0
91	IS 17408: Part 1: 2020/ISO 16231-1: 2013	Self-propelled Agricultural Machinery Assessment of Stability Part 1 Principles	Others	0
92	IS 17409: Part 2: 2020/ISO 16231-2: 2015	Self-propelled Agricultural Machinery Assessment of Stability Part 2 Determination of Static Stability and Test Procedures	Methods of tests	0
93	IS 1970: 1995 (Fifth Revision)	Crop protection equipment - Hand - Operated compression - knapsack sprayer - Specification (Fifth Revision)	Product Specification	2016, Oct
94	IS 1971: 1996 (Fifth Revision)	Crop protection equipment - Hand - Operated stirrup - Specification (Fifth revision)	Product Specification	2016, Oct
95	IS 1976: 1976 (Second Revision)	Specification for rotary paddy weeder, manually - Operated (Second Revision)	Product Specification	2016, Oct
96	IS 2192: 1998 (Second Revision)	Soil working equipment - Animal drawn mould board plough, fixed type specification (Second Revision)	Product Specification	2016, Oct
97	IS 2559: 1978 (First Revision)	Specification for garden rake (First Revision)	Product Specification	2016, Oct
98	IS 2563: 1978 (First Revision)	Specification for hedge shears, straight - Edge type (First Revision)	Product Specification	2016, Oct
99	IS 2565: 1979 (First Revision)	Specification for ridger, animal - Drawn (First Revision)	Product Specification	2016, Oct
100	IS 3062: 1995 (Fourth Revision)	Crop protection equipment - Rocker sprayer - Specification (Fourth Revision)	Product Specification	2016, Oct
101	IS 3092: 1982 (First Revision)	Specification for rubber draining and tapping knife (First Revision)	Product Specification	2016, Oct
102	IS 3093: 1981 (First Revision)	Specification for dah, jungle cutting (First Revision)	Product Specification	2016, Oct
103	IS 3094: 1982 (First Revision)	Specification for bill - Hook (First Revision)	Product Specification	2016, Oct
104	IS 3108: 1991 (Second Revision)	Forestry tools - Pruning saw specification (Second Revision)	Product Specification	2016, Oct
105	IS 3122: 1982 (First Revision)	Specification for budding and grafting knife combined (First Revision)	Product Specification	2017, Oct
106	IS 3327: 1982 (First Revision)	Specification for pedal - Operated paddy threshers (First Revision)	Product Specification	2019, Jan

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Sl. No.	IS Number	IS Title	Category	Reaffirmation year
107	IS 3342: 1998 (Second Revision)	Soil working equipment - Cultivators, animal drawn - Specification (Second Revision)	Product Specification	2019, Jan
108	IS 3369 : 1965	Specification for puddler, animal drawn	Product Specification	2017, Oct
109	IS 3372: 1965	Specification for bund former	Product Specification	2019, Jan
110	IS 3494: 1978 (First Revision)	Specification for pruning secateurs (First Revision)	Product Specification	2019, Jan
111	IS 3606: 1998 (Second Revision)	Soil working equipment - Disc harrow, animal drawn - Specification (Second Revision)	Product Specification	2019, Jan
112	IS 3652: 1995 (Fourth Revision)	Crop protection equipment. - Foot sprayer - Specification (Fourth Revision)	Product Specification	2016, Oct
113	IS 3906: 1995 (Fourth Revision)	Crop Protection Equipment - Hand-operated Knapsack Sprayer, Piston Type	Product Specification	2016, Oct
114	IS 4358: 1996 (First Revision)	Crop protection equipment - Hand - Operated knapsack sprayer, piston type - Specification (Fourth Revision)	Product Specification	2017, Oct
115	IS 4366: Part 1 : 1985/ISO 5679 (Second Revision)	Specification for agricultural tillage discs: Part 1 concave type (Second Revision)	Product Specification	2016, Oct
116	IS 4366: Part 2 : 1985/ISO/TR 4122 (Second Revision)	Specification for agricultural tillage discs: Part 2 flat type (Second Revision)	Product Specification	2016, Oct
117	IS 4930: 1985 (First Revision)	Specification for axle assembly for pneumatic - Wheeled animal - Drawn vehicles (First Revision)	Product Specification	2019, Jan
118	IS 5135: Part 1: 1994 (Second Revision)	Specification for hand - Rotary duster: Part 1 belly - Mounted type (Second Revision)	Product Specification	2019, Jan
119	IS 5135: Part 2: 1994 (First Revision)	Specification for hand rotary duster: Part 2 shoulder mounted type (First Revision)	Product Specification	2019, Jan
120	IS 6024: 1983 (First Revision)	Specification for guards for harvesting machines (First Revision)	Product Specification	2019, Jan
121	IS 6025: 1982 (First Revision)	Specification for knife sections for harvesting machines (First Revision)	Product Specification	2019, Jan
122	IS 619: 1979 (Second Revision)	Specification for pruning and slashing knives, hooked and curved (Second Revision)	Product Specification	2016, Oct
123	IS 6283: Part 1 : 2006/ISO 3767-1 (Second Revision)	Tractors and machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays: Part 1 common symbols (Second Revision)	Terminology	2019, Jan

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Sl. No.	IS Number	IS Title	Category	Reaffirmation year
124	IS 6283: Part 2: 2007/ISO 3767-2 (First Revision)	Tractors and machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays: Part 2 symbols for agricultural tractors and machinery (Second Revision)	Terminology	2019, Jan
125	IS 6284: 1985 (Second Revision)	Test code for power thresher for cereals (Second Revision)	Methods of tests	2019, Jan
126	IS 6288: 1971	Test code for mould board ploughs	Methods of tests	2019, Jan
127	IS 6316: 1993 (First Revision)	Sowing equipment - Seed - Cum - Fertilizer drill - Test code (First Revision)	Methods of tests	2019, Jan
128	IS 6320: 1985 (First Revision)	Specification for power thresher, hammer - Mill type (First Revision)	Product Specification	2019, Jan
129	IS 6483: 2004/ISO 7072 (Second Revision)	Tractors and machinery for agriculture and forestry - Linch pins and spring pins - Dimensions and requirements (Second Revision)	Product Specification	2017, Oct
130	IS 6635: 1972	Specification for tractor operated disc harrows	Product Specification	2016, Oct
131	IS 6638: 1972	Specification for tractor - Mounted spring - Loaded cultivators	Product Specification	2016, Oct
132	IS 6690: 1981 (First Revision)	Specification for blades for rotavator for power tillers, (First Revision)	Product Specification	2017, Oct
133	IS 6813: 2000 (Second Revision)	Sowing equipment - Seed - Cum - Fertilizer drill - Specification (Second Revision)	Product Specification	2016, Oct
134	IS 7201: Part 1: 1987 (First Revision)	Methods of sampling for agricultural machinery and equipment: Part 1 hand - Tools and hand - Operated/animal drawn equipment (First Revision)	Methods of tests	2019, Jan
135	IS 7230: 1974	Specification for plain spool for tractor operated disc harrows	Product Specification	2016, Oct
136	IS 7565: Part 1: 1975	Tines for Tractor-operated Cultivators - Part I : Rigid Tines	Product Specification	2019, Jan
137	IS 7565: Part 2: 1988/ISO 5678	Specification for tines for tractor operated cultivators: Part 2 - Type tines	Product Specification	2019, Jan
138	IS 7593: Part 1: 1986 (First Revision)	Specification for power - Operated pneumatic sprayer - Cum - Duster: Part 1 knapsack type (First Revision)	Product Specification	2017, Oct
139	IS 7640: 1975	Test code for disc harrows	Methods of tests	2019, Jan
140	IS 7825: 2004	Cylinder type hand lawn mower specification (First Revision)	Product Specification	2019, Jan
141	IS 7927: 1975	Method of field testing for manually - Operated paddy weeder	Methods of tests	2019, Jan
142	IS 8122: Part 1: 1994 (First Revision)	Test code for combine harvester - Thresher: Part 1 terminology (First Revision)	Terminology	2016, Oct

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Sl. No.	IS Number	IS Title	Category	Reaffirmation year
143	IS 8122: Part 2: 2000 (First Revision)	Combine harvester - Thresher – Test code: Part 2 performance test (First Revision)	Methods of tests	2016, Oct
144	IS 8132: 1999/ISO 3600 (Second Revision)	Tractors and Machinery for Agriculture and Forestry, Powered Lawn and Garden Equipment - Operator's Manuals - Content and Presentation	Code of Practice	2019, Jan
145	IS 8213: 2000 (Third Revision)	Agricultural tractor trailer - Specification (Third Revision)	Product Specification	2020, Oct
146	IS 8480: 1996 (First Revision)	Crop protection equipment – Glossary of terms (First Revision)	Terminology	2017, Oct
147	IS 9019: 1979	Code of practice for installation, operation and preventive maintenance of power threshers	Code of Practice	2016, Oct
148	IS 9164: 1979	Guide for estimating cost of farm machinery operation	Code of Practice	2017, Oct
149	IS 9217: 1979	Test code for agricultural discs	Methods of tests	2016, Oct
150	IS 9575: 1980	Specification for power lawn mower, pedestrian - Controlled cylinder (Reel) type	Product Specification	2019, Jan
151	IS 9632: 1980	Code of practice for operation and preventive maintenance of crop protection equipment	Code of Practice	2017, Oct
152	IS 9818: Part 1: 1981	Glossary of terms relating to tillage and inter cultivation equipment: Part 1 general terms	Terminology	2019, Jan
153	IS 9818: Part 2: 1981	Glossary of terms relating to tillage and inter cultivation equipment: Part 2 terms relating to equipment	Terminology	2019, Jan
154	IS 9821: 1981	Glossary of terms relating to farm transport equipment	Terminology	2019, Jan
155	IS 9826: 1981	Glossary of terms relating to harvesting and threshing equipment	Terminology	2017, Oct
156	IS 9855: 1981	Glossary of terms relating to sowing, planting, fertilizer and manure application equipment	Terminology	2019, Jan
157	IS 9856: 1981	Test code for potato planters	Methods of tests	2019, Jan
158	IS 9877: 1981	Code of practice for installation, operation and preventive maintenance of grain combine	Code of Practice	2016, Oct
159	IS B9813: 2002 (First Revision)	Tractor - Operated blade terracer - Specification (First Revision)	Product Specification	2017, Oct

**Source:** <https://www.services.bis.gov.in:8071/php/BIS/PublishStandards/images/opr.jpg>. Accessed on 04.01.2021.

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**Annexure IV**  
**BIS Safety Standards**

Sl. No.	IS Number	IS Title	Category	Reaffirmation year
1	IS 12239: Part 1: 2018/ISO 4254-1: 2013 (Second Revision)	Guide for Safety and Comfort of Operator of Agricultural Tractors and Power Tillers Part 1 General Requirements (Second Revision)		0
2	IS 12239: Part 3: 1988	Guide for safety and comfort of operator of agricultural tractors and power tillers: Part 3 requirements relating to power tillers	Code of Practice	2019, Jan
3	IS 12239: Part 6: 2019/ISO 4254-6: 2013	Agricultural Machinery – Safety Part 6 Sprayers and Liquid Fertilizer Distributors	Safety Standard	0
4	IS 15925: 2012/ISO 11449: 1994	Walk - Behind powered rotary tillers - Definitions, safety requirements and test procedures	Methods of tests	2017, Oct
5	IS 9581: 1980	Safety and operational requirements for pedestrian - Controlled cylinder (Reel) power lawn mowers	Product Specification	2019, Jan
6	IS B9020: 2002 (First Revision)	Power threshers - Safety requirements (First Revision)	Product Specification	2017, Oct

**Source:** <https://www.services.bis.gov.in:8071/php/BIS/PublishStandards/images/opr.jpg>. Accessed on 04.01.2021.

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**Annexure V**

**List of Government of India Approved Farm Machinery Testing Centres**

Sl. No.	Address of identified institutions	Contact phone number	Email address
1	Acharya N.G. Ranga Agricultural University (ANGRAU), Rajendra Nagar, Hyderabad. (AP)	24018277 9989625237	fimscheme@gmail.com
2	Faculty of Agricultural Engineering, Rajendra Agricultural University, Pusa(Bihar).		dean_cae@rediffmail.com, kumar.kranti@yahoo.com, skpower@rediffmail.com
3	State level Agriculture Implement Testing Centre, Agriculture Department, Govt. of Chhattisgarh, Teli Bandha, Gorav Path, Raipur (Chhattisgarh).	09827151776, 0771-2430156	jdaengg.test-cg@nic.in
4	Division of Agricultural Engineering, Indian Agriculture Research Institute 12, (New Delhi)	011-25842294, 9968190405	indramani@iari.res.in satisihari@gmail.com
5	College of Agricultural Engineering & Technology, Junagarh Agricultural University, Junagarh.(Gujarat)	9898942762	gupta-r-a@jau.in
6	College of Agricultural Engineering & Technology, CCS Agricultural University, Hissar. (Haryana)	9416397798 8607866633	mukeshjainhisar@rediffmail.com
7	Sher-e-Kashmir University of Agriculture Science & Technology, Srinagar and Jammu Region.	094192-30487	sk_sharma@yahoo.com
8	Birsa Agricultural University (BAU), (Jharkhand)	09431543781	dkrusia@gmail.com
9	Jharkhand Agriculture Machinery Testing and Training Centre (JAM-TTC) Govt. of Jharkhand, Ranchi (Jharkhand).	9431395373 9934156377 8986672378	singh.omkar14@yahoo.co.in jarkhandranchi@gmail.com
10	University of Agricultural Sciences, Gandhi KrishiVignyan Kendra, Bangalore (Karnataka).	9482297957	palanimuthuv@gmail.com
11	College of Agricultural Engineering, UAS, Raichur, (Karnataka).	9480163904	anantachary@gmail.com
12	Farm Machinery Testing Centre, Kerala Agricultural University Kelappaji College of Agricultural Engineering & Technology Tavanur, Malappuram (Dist), 679573(Kerala)	9446113559	sindhu.bhaskar@kau.in fmtctve@kau.in
13	ICAR - Central Institute of Agricultural Engineering (CIAE), Berasia road Bhopal, (Madhya Pradesh)	0755-2521176	narendracea@gmail.com
14	Dr. A.S. College of Agricultural Engineering MPKV, Rahuri, Distt. Ahmednagar. Maharashtra.	9850612344 9049051525	diraj_karale@hotmail.com vskankal@gmail.com

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Sl. No.	Address of identified institutions	Contact phone number	Email address
15	Farm Machinery Testing, Training and Production Centre, Department of FM&P, Dr. PDKV, Akola, <b>(Maharashtra)</b> .	0724-2259403	sht1964@rediffmail.com
16	College of Agricultural Engineering and Technology, Dr. Balasaheb Sawant Konkan KrishiVidyapeeth, DAPOLI. <b>(Maharashtra)</b> .	9423784381	shahareprashant@rediffmail.com
17	College of Agricultural Engineering and Technology, Odisha University of Agriculture and Technology, Bhubaneswar <b>(Orissa)</b>	9437386861	debaraj1963@rediffmail.com
18	State Level Farm Machinery Training & Testing Centre, Agriculture Department, Government of Odhisa, <b>Bhubaneswar (Odhisa)</b> .	09437815544 09439727549	pkmsonu@gmail.com dasalok61@gmail.com
19	College of Agricultural Engineering and Technology, Punjab Agricultural University, Ludhiana (Punjab).	9888997292 09779906139	sksingh@pau.edu goyalrajat@pau.edu
20	College of Technology and Agricultural Engineering, MaharanaPratap, University of Agriculture and Technology, Udaipur <b>(Rajasthan)</b> .	07891781022	shashipawar5406@gmail.com
21	Farm Implements and Machinery Testing & Training Centre, Central Workshop, Swami Keshwanand Rajasthan Agricultural University, Bikaner <b>(Rajasthan)</b> .	0941423034 0152-2250576	vladha@yahoo.com
22	College of Agricultural Engineering and Post-Harvest Technology, Ranipool, Gangtok <b>(Sikkim)</b> .	09933469544	snyadavkpl@yahoo.com
23	Agricultural Engineering College and Research Institute, Tamil Nadu Agricultural University, Kumulur, Trichirapalli <b>(Tamil Nadu)</b> .	0431 - 2545001 0431 - 2545000	deancaekum@tnau.ac.in
24	State Level Farm Machinery Training and Testing Institute, Govt. of <b>U.P.</b> , Rehmankhara, Lucknow <b>(U.P.)</b> .	8176004522 0522-2841146	sametiup@gmail.com
25	Sam Higginbottom Institute of Agriculture, Technology & Science (AAI), Deemed University, Allahabad <b>(U.P.)</b>	9794618648	fdean_engg@shiats.edu.in
26	College of Technology, GobindBallabh Pant University of Agriculture and Technology, Pantnagar <b>(Uttanchal)</b>	0941051494 05944233380	jayantsingh07@gmail.com
27	Department of Agriculture & Food Engineering, IIT, KHARAGPUR <b>(West Bengal.)</b>	9434704801 03222-282244	hifjur@agfe.iitkgp.ernet.in

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Sl. No.	Address of identified institutions	Contact phone number	Email address
28	State Farm Machinery Training-cum-Testing Institute, Faculty of Agricultural Engineering, (BCKVV), Mohanpur, Dist. Nadia ( <b>West Bengal</b> )	03473-22265	souti62@rediffmail.com
29	College of Agriculture Vijaypur, University of Agricultural sciences Belgaum Rd, Krishi Nagar, Dharwad ( <b>Karnataka</b> )		deanacb@uasd.in
30	Farm Machinery and Post-harvest Equipment & Machinery Testing Centre, ICAR-Central Institute of Agricultural Engineering- Regional Centre, Coimbatore -641007 ( <b>Tamil Nadu</b> )	0422 – 2472624, 9842955606	ciaerccb@gmail.com thasekumar@gmail.com

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**Annexure VI**

**BIS Safety Standards Referred for Testing of Post-Harvest Equipment and Machinery**

Sl. No.	IS Number	IS Title	Category	Reaffirmation Year
1	IS 15863 : 2009	Cotton seed delinting machinery-Inclined flight belt conveyor- Specification	Product Specification	-
2	IS 15857 : 2009	Cotton seed delinting machinery- Mobile-Charging machine- Specification	Product Specification	-
3	IS 15856 : 2010	Cotton seed delinting machinery- Pre-Heating machine- Specification	Product Specification	-
4	IS 15855 : 2010	Cotton seed delinting machinery- Surge bin machine- Specification	Product Specification	-
5	IS 8420 : 2000 (First Revision)	Grain dryers- Glossary of terms (First Revision)	Terminology	2006
6	IS 8108 (PART 1): 1984 (First Revision)	Test code for grain dryers- Part 1- Selection and preparation for test (First Revision)	Code of practice	2012
7	IS 8108 (PART 2): 1984	Test code for grain dryers- Part 2- Method of tests for continuous dryers	Code of practice	2012
8	IS 8108 (PART 3): 1985	Test code for grain dryers- Part 3- Method of tests for in-silo dryers	Code of practice	2012
9	IS 1981: 2000 (First Revision)	Agricultural produce processing equipment- Glossary of terms (First Revision)	Terminology	2006
10	IS 1442: 1997	Agricultural produce milling machinery- Burr mill- Test code	Code of practice	2002
11	IS 10520: 1989 (First Revision)	Agricultural produce milling machinery- Emery stones for burr flour mills- Specification (First Revision)	Product Specification	1999
12	IS 13793: 1993	Agricultural produce milling machinery- Milling of pulses- Flow diagram	Others	-
13	IS 12792: 1989	Agricultural produce milling machinery- Mini rice mill- Specification	Product Specification	-
14	IS 12833: 1989	Agricultural produce milling machinery- Roller flour mills- Flow diagram	Others	1999
15	IS 9049: 1989 (First Revision)	Agricultural produce milling machinery- Paddy dehusker, Rubber roll type- Test code (First Revision)	Code of practice	1995
16	IS 8427: 1989 (First Revision)	Agricultural produce milling machinery- Rubber roll for paddy dehusker- Specification (First Revision)	Product Specification	1999
17	IS 4596: 1968	Glossary of terms relating to oil expellers (First Reprint- Jan 1984)	Terminology	1999

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Sl. No.	IS Number	IS Title	Category	Reaffirmation Year
	(First Reprint- Jan 1984)			
18	IS 12047: 1987	Specification for oil seed cookers/ kettles, Horizontal type	Product Specification	-
19	IS 3579: 1966	Method of test for oil seeds	Method of tests	-
20	IS 13794: 1993	Oilseeds milling machinery- Power ghanies portable- Specification	Product Specification	2004
21	IS 5223: 1993 (First Revision)	Oilseeds milling machinery- oil expellers- Test code (First Revision)	Code of practice	1998
22	IS 5224: 1993 (Second Revision)	Oilseeds milling machinery- Oil expellers single barrel- Specification (Second Revision)	Product Specification	1998
23	IS 15829: 2009	Cassava chipping machine- Hand-Operated- Specification	Product Specification	-
24	IS 11473: 2002 (First Revision)	Groundnut decorticator- Test code (First Revision)	Code of practice	2012
25	IS 14603: 1998	Potato grader- Test code	Code of practice	-
26	IS 12064: 1987 (First Reprint Dec 1996)	Code for practice for paddy parboiling (First Reprint Dec 1996)	Code of practice	2005
27	IS 11834: 1986	Symbols and flow diagrams for rice milling	Others	1999
28	IS 8440: 1977	Test code for paddy cleaners	Code of practice	2005
29	IS 12396: 1988	Specification for paddy cleaner	Product Specification	1999
30	IS 12411: 1988	Specification for paddy dehusker, Centrifugal type	Product Specification	-
31	IS 11787: 1986	Specification for paddy dehusker, Rubber roll type	Product Specification	1999
32	IS 10507: 1998 (First Revision)	Paddy separator- Specification (First Revision)	Product Specification	-
33	IS 10048: 1999 (Second Revision)	Rice grader- Specification (Second Revision)	Product Specification	-
34	IS 9555: 1999 (Second Revision)	Rice polisher- Specification (Second Revision)	Product Specification	-
35	IS 11041: 1984 (First Reprint Mar 1997)	Specification for air-screen seed cleaner (First Reprint Mar 1997)	Product Specification	1999
36	IS 15831: 2009	Grader- Citrus- Size based	Code of practice	-

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Sl. No.	IS Number	IS Title	Category	Reaffirmation Year
37	IS 10892: 1984	Recommendations for aperture size of sieves for seed cleaners	Product Specification	1999
38	IS 11032: 1984	Specification for rotary screen-type Pre-cleaner	Product Specification	2012
39	IS 14460: 1997	Seed processing equipment- Gravity separator- Specification	Product Specification	2002
40	IS 12576: 1989	Seed processing machinery- Indented cylinder grader- Test code	Code of practice	2005
41	IS 6997: 1973 (First Reprint Jan 1987)	Test code for sugarcane crushers (First Reprint Jan 1987)	Code of practice	2012
42	IS 1973: 1999 (Third Revision)	Sugarcane crushers- Specification (Third Revision)	Product Specification	2010
43	IS 15561: 2005	Sugarcane crushers- Safety requirements	Product Specification	-
44	IS 1511: 1979 (Second Revision)	Specification for blades for manually-operated chaff cutter (Second Revision)	Product Specification	2012
45	IS 15542: 2005	Power operated chaff cutter- Safety requirements	Product Specification	-
46	IS 11459: 1985	Specification for power operated chaff cutter	Product Specification	2012
47	IS 7897: 1975	Test code for chaff cutter	Code of practice	2012
48	IS 7052: 1973	Test code for power maize shellers	Code of practice	2012
49	IS 7051: 1973	Specification for power maize shellers	Product Specification	-
50	IS 6284: 1985 (Second Revision)	Test code for power thresher for cereals (Second Revision)	Code of practice	1999

**Source:** [https://www.services.bis.gov.in:8071/php/BIS\\_2.0](https://www.services.bis.gov.in:8071/php/BIS_2.0). Accessed on 10.5.2021.

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**Annexure VII**

**List of Approved Post-Harvest Equipment/Machinery Testing Centre**

Sl. No.	Address of identified institutions	Contact phone number	Email address
1	ICAR - Central Institute of Post- harvest Engineering and Technology (CIPHET), PAU campus Ludhiana <b>(Punjab)</b> .	9417596894 0161- 2313123	ciphetludhiana1989@gmail.com
2	State Level Farm Machinery Training & Testing Centre, Agriculture Department, Government of Odisha, Baramunda Bhubaneswar- 751003 <b>(Odisha)</b> .	0674- 2971256	slfmttc@gmail.com
3	The Officer-In-Charge, Post-Harvest Equipment/Machinery (PHEM) Testing Centre, ICARCIAE, Bhopal-462038 <b>(Madhya Pradesh)</b>	0755- 2521209	subir8275@gmail.com
4	Farm Machinery and Post-harvest Equipment & Machinery Testing Centre, ICAR-Central Institute of Agricultural Engineering- Regional Centre, Coimbatore -641007 <b>(Tamil Nadu)</b>	0422 – 2472624, 9842955606	ciaerccbe@gmail.com thasekumar@gmail.com