

## FAD 21 FARM IMPLEMENTS AND MACHINERY

<b>SCOPE</b>	A. Standards relating to soil working, sowing, fertilizer and manure application, crop protection, planting & transplanting machinery, harvesting, threshing, raw management equipment, farm transport and horticulture, powered lawn & garden equipment, forestry and plantation tools and equipment
	<b>B. Liaison with:</b> <b>I. ISO/TC23 Agricultural Machinery</b> <b>II. ISO/TC 23/SC 6 Crop protection equipment</b> <b>III. ISO/TC23/SC7 Equipment for harvesting conservation</b> <b>IV. ISO/TC 23/SC 13 Powered lawn and garden</b> <b>V. ISO/TC 23/SC 15 Machinery for forestry</b>

## FINALISED DRAFTS UNDER PRINT

Sl. No.	IS Number DOC Number	Title	Reaffirm Date	No. of Amd
1	IS 619:1979	Specification for Pruning and slashing knives, hooked and curved (second revision)	Mar 2009	
2	IS 1970:1995	Crop Protection Equipment - Hand operated compression knapsack sprayer - Specification (fifth revision)	Mar 2009	1
3	IS 1971:1996	Crop Protection Equipment - Hand operated stirrup- type sprayer - Specification (fifth revision)	Mar 2012	
4	IS 1976:1976	Specification for Rotary paddy weeder, manually operated (second revision)	Mar 2009	
5	IS 2192:1998	Soil working equipment - Animal drawn mouldboard plough, fixed type - Specification (second revision)	Mar 2009	
6	IS 2559:1978	Specification for Garden rake (first revision)	Mar 2009	
7	IS 2563:1978	Specification for Hedge shears, straight-edge type (first revision)	Mar 2009	
8	IS 2565:1979	Specification for Ridger, Animal drawn (first revision)	Mar 2012	
9	IS 3062:1995	Crop Protection Equipment - Rocker sprayer - Specification (fourth revision)	Mar 2012	2
10	IS 3092:1982	Specification for Rubber draining and tapping knife (first revision)	Mar 2009	
11	IS 3093:1981	Specification for Dah, jungle cutting (first revision)	Mar 2009	
12	IS 3094:1982	Specification for Bill-hook (first revision)	Mar 2009	
13	IS 3108:1991	Forestry tools - Pruning saw - Specification (second revision)	Feb 2011	
14	IS 3122:1982	Specification for Budding and grafting knife combined (first	Mar 2012	

		revision)		
15	IS 3327:1982	Specification for Pedal-operated paddy thresher (first revision)	Mar 2009	1
16	IS 3342:1998	Soil working equipment - Cultivators, animal drawn - Specification (second revision)	Mar 2009	
17	IS 3369:1965	Specification for Puddler, Animal drawn	Mar 2012	1
18	IS 3372:1965	Bund former, animal drawn	Mar 2009	
19	IS 3494:1978	Specification for Pruning secateur (first revision)	Mar 2009	
20	IS 3606:1998	Soil working equipment, Dischouw, Animal drawn - Specification (second revision)	Mar 2009	
21	IS 3652:1995	Crop Protection Equipment - Foot sprayer (fourth revision)	Feb 2011	3
22	IS 3906:1995	Crop Protection Equipment - Hand-operated knapsack sprayer, piston type - Specification (fourth revision)	Feb 2011	2
23	IS 4358:1996	Specification for Sickles (first revision)	Mar 2012	
24	IS 4366(Part 1):1985	Specification for Agricultural tillage discs: Part 1 concave type (second revision)	Feb 2011	
25	IS 4366(Part 2):1985	Specification for Agricultural tillage discs: Part 2 Flattype (second revision)	Feb 2011	
26	IS 4930:1985	Specification for Axle assembly for pneumatic wheeled animal drawn vehicles (first revision)	Mar 2009	1
27	IS 5135(Part 1):1994	Specification for Hand rotary duster: Part 1 Belly mounted type (second revision)	Mar 2009	2
28	IS 5135(Part 2):1994	Specification for Hand rotary duster: Part 2 Shoulder mounted type (first revision)	Mar 2009	1
29	IS 6024:1983	Specification for Guards for harvesting machines (first revision)	Mar 2009	
30	IS 6025:1982	Specification for Knife sections for harvesting machines (first revision)	Mar 2009	
31	IS 6284:1985	Test code for power thresher for cereals (second revision)	Mar 2009	3
32	IS 6288:1971	Test code for mouldboard ploughs	Mar 2009	
33	IS 6316:1993	Sowing Equipment - Seed-cum-fertilizer Drill - Test Code (first revision)	Mar 2009	
34	IS 6320:1985	Specification for Power thresher, Hammer mill type (first revision)	Mar 2009	
35	IS 6635:1972	Specification for Tractor operated disc harrows	Feb 2011	2

36	IS 6638:1972	Specification for Tractor-mounted spring loaded cultivators	Feb 2011	4
37	IS 6690:1981	Specification for Blades for rotavator for power tillers(first revision)	Mar 2012	
38	IS 6813:2000	Sowing equipment - Seed-cum-fertilizer drill -Specification (second revision)	Feb 2011	
39	IS 7201(Part 1):1987	Methods of sampling for agricultural machinery andequipment: Part 1 Hand tools and handoperated/animal drawn equipment (first revision)	Mar 2009	
40	IS 7230:1974	Specification for Plain spool for tractor operated disc harrows	Feb 2011	
41	IS 7353:1974	Specification for Blade for Tractor-Operated Terracer	Feb 2011	
42	IS 7565(Part 1):1975	Specification for Tines for tractor operated cultivators:Part 1 Rigid tines	Mar 2009	
43	IS 7565(Part 2):1988	Specification for Tines for tractor operated cultivators: Part 2 S-type tines	Mar 2009	
44	IS 7593(Part 1):1986	Specification for Power operated pneumatic sprayer- cum-duster: Part 1 Knapsack type (first revision)	Mar 2012	1
45	IS 7640:1975	Test code for disc harrows	Mar 2009	
46	IS 7927:1975	Method of field testing for manually operated paddy weeder	Mar 2009	
47	IS 8122(Part 1):1994	Test code for combine harvester-thresher: Part 1 Terminology (first revision)	Feb 2011	
48	IS 8122(Part 2):2000	Combine harvester-thresher - Test code: Part 2 Performance tests (first revision)	Feb 2011	1
49	IS 8213:2000	Agricultural tractor trailer - Specification (third revision)	Feb 2011	
50	IS 8480:1996	Crop Protection Equipment - Glossary of Terms (first revision)	Mar 2012	
51	IS 8548:1977	Test code for power-operated hydraulic sprayer	Mar 2009	
52	IS 9019:1979	Code of practice for installation, operation and preventive maintenance of power threshers	Feb 2011	2
53	IS 9020:2002	Power Threshers - Safety Requirements (first revision)	Mar 2012	
54	IS 9164:1979	Guide for estimating cost of farm machinery operation	Mar 2012	1
55	IS 9217:1979	Test code for agricultural discs	Feb 2011	
56	IS 9575:1980	Power lawn mower, pedestrian-controlled cylinder (reel) type	Mar 2009	2
57	IS 9581:1980	Safety and operational requirements for pedestrian-controlled cylinder (reel) power lawn mowers	Mar 2009	

58	IS 9632:1980	Code of practice for operation and preventive maintenance of crop protection equipment	Mar 2012	
59	IS 9813:2002	Tractor-mounted blade terracers (first revision)	Mar 2012	
60	IS 9818(Part 1):1981	Glossary of terms relating to tillage and intercultivation equipment: Part 1 General terms	Mar 2009	
61	IS 9818(Part 2):1981	Glossary of terms relating to tillage and intercultivation equipment: Part 2 Terms relating to equipment	Mar 2009	
62	IS 9821:1981	Glossary of terms relating to farm transport equipment	Mar 2009	
63	IS 9826:1981	Glossary of terms relating to harvesting and threshing equipment	Mar 2012	
64	IS 9855:1981	Glossary of terms relating to sowing, planting, fertilizers and manure application equipment	Mar 2009	
65	IS 9856:1981	Test code for potato planters	Mar 2009	
66	IS 9877:1981	Code of practice for installation, operation and preventive maintenance of grain combine	Feb 2011	
67	IS 10134:1994	Methods of tests for manually operated sprayers (first revision)	Mar 2009	1
68	IS 10225:1982	Specification for Bearing spools for tractor-operated disc harrows	Mar 2009	
69	IS 10233:1982	Specification for Tractor-operated disc ploughs	Mar 2009	
70	IS 10239:1982	Specification for Blade for tractor-operated scraper	Mar 2009	
71	IS 10254:1982	Specification for Share for animal-drawn ridger	Mar 2009	
72	IS 10378:1982	Specification for Knife back for harvesting machines	Feb 2011	
73	IS 10683:1983	Specification for Khurpi	Mar 2009	
74	IS 10684:1983	Specification for Tree pruner	Feb 2011	
75	IS 10691:1983	Specification for Share for tractor-operated mouldboard ploughs	Feb 2011	
76	IS 10806:2003	Trailers for Power Tillers - Specification (first revision)	Feb 2011	
77	IS 10807:1984	Axles with brakes of trailer for power tillers	Feb 2011	
78	IS 11033:1984	Specification for Animal drawn potato digger, Ridger type	Feb 2011	
79	IS 11204:1985	Specification for Sugarcane harvesting knife	Feb 2011	
80	IS 11234:1985	Test code for power thresher for groundnut	Feb 2011	
81	IS 11235:1985	Test code for groundnut digger, animal drawn	Feb 2011	1

82	IS 11269:1985	Specification for Axle assembly for conventional animal drawn vehicles	Mar 2009	
83	IS 11270:1985	Technical requirements for ring-type hitches for agricultural trailers	Mar 2009	
84	IS 11271:1985	Specification for Groundnut planter	Feb 2011	
85	IS 11272:1985	Glossary of terms relating to horticultural equipment	Feb 2011	1
86	IS 11313:2007	Hydraulic power sprayers - Specification (first revision)	Mar 2012	
87	IS 11429:1985	Methods for calibration of sprayers	Mar 2009	
88	IS 11467:1985	Test code for cereal harvesting machines	Mar 2012	
89	IS 11531:1985	Test code for puddler	Feb 2011	
90	IS 11580:1986	Glossary of terms relating to forestry equipment	Mar 2009	
91	IS 11691:1986	Specification for Power thresher, spike tooth type	Mar 2009	
92	IS 11893:1986	Specification for Potato planter, semi-automatic	Mar 2012	
93	IS 11905:1986	Specification for Shaft assembly for rotavator for power tiller	Feb 2011	1
94	IS 11976:1986	Specification for Sugarcane planter semi-automatic	Mar 2012	
95	IS 12161:1987	Test code for animal carts	Mar 2009	1
96	IS 12162:1987	Specification for Lifting hook	Mar 2009	
97	IS 12163:1987	Specification for Cant hook	Mar 2009	
98	IS 12164:1987	Specification for Log tongs	Mar 2009	
99	IS 12191:1987	Specification for Felling wedges	Mar 2009	
100	IS 12199:1987	Specification for Pneumatic wheeled animal drawn vehicle	Mar 2009	
101	IS 12334:1988	Specification for Tractor mounted bund former	Mar 2009	
102	IS 12337:1988	Specification for Manually operated fertilizer broadcaster	Mar 2009	1
103	IS 12371:1988 / ISO 5670:1984	Technical requirements for single acting telescopic tipping cylinders for agricultural trailers	Mar 2009	
104	IS 12409:1988	Specification for Garden sword	Mar 2009	
105	IS 12482:1988	Methods of test for manually operated dusters	Mar 2009	1
106	IS 12627:1989	Forestry tools - Loop handles, two-men cross cut saws	Mar 2009	
107	IS 12651:1989	Forestry tools - Setting anvil for raker toothed two-men cross cut saws	Mar 2009	
108	IS 12652:1989	Forestry tools - Raker adjuster-cum-setting iron for two- men	Mar 2009	

		cross cut saws		
109	IS 12653:1989	Rubber tapping tools - Coagulation tray - Specification	Mar 2009	
110	IS 12696:1989	Forestry tools - Setting pliers, bow saw blade	Mar 2009	
111	IS 12697:1989	Forestry tools - Setting hammer, raker toothed two- men cross cut saws - Specification	Mar 2009	
112	IS 12698:1989	Forestry tools - Tree marking digit set - Specification	Mar 2009	
113	IS 12703:1989	Forestry tools - Tree marking hammers - Specification	Mar 2009	
114	IS 12704:1989	Forestry tools - Wooden jointer for bow saw blade - Specification	Mar 2009	
115	IS 12917(Part 1):1990	Farm transport equipment - Conventional animal drawn vehicle Part 1 Cattle, donkey and mule	Mar 2009	1
116	IS 12917(Part 2):1991	Farm transport equipment - Conventional animal drawn vehicle Part 2 Camel	Mar 2009	
117	IS 13151:1991	Forestry Tools - Two-men Log tongs - Specification	Feb 2011	
118	IS 13373:1992	Horticultural Equipment - Grass Shear - Specification	Mar 2009	
119	IS 13374:1992	Forestry tools - Hand sapphire, nursery (Kutla) - Specification	Mar 2009	
120	IS 13376:1992	Forestry tools - Debarking spud - Specification	Mar 2009	
121	IS 13377:1992	Forestry tools - SHRUB cutting knife - Specification	Mar 2009	
122	IS 13378:1992	Forestry tooles - Felling lever - Specification	Mar 2009	
123	IS 13379:1992	Forestry tools - Wooden setting cat, bow saw blades - Specification	Feb 2011	
124	IS 13380:1992	Forestry tools - Hole punch, bow saw blades - Specification	Feb 2011	
125	IS 13485(Part 1):1992	Forestry tools - Stalk puller - Specification : Part 1 Light duty	Mar 2009	
126	IS 13485(Part 2):1998	Forestry tools - Stalk puller - Specification : Part 2 Heavy duty	Mar 2009	
127	IS 13733:1993 / ISO 5669:1982	Agricultural trailers and trailed equipment - Braking cylinders - Specification	Mar 2009	
128	IS 13818:1993	Harvesting equipment - Tractor operated potato diggershakers - Test code	Mar 2009	
129	IS 13821:2000	Forestry tools - wooden filing vice - Specification	Mar 2009	
130	IS 14459:1997	Crop Protection Equipment - Battery operated rotary atomiser disc type ULV Sprayer - Specification	Mar 2009	

131	IS 14523:1998	Forstry tools - Dibbling board - Specification	Mar 2009	
132	IS 14524:1998	Forestry tools - Dibble iron - Specification	Mar 2009	
133	IS 14525:1998	Forestry tools - Seed plucker - Specification	Mar 2009	
134	IS 14526:1998	Forestry tool - plant carrier - Specification	Mar 2009	
135	IS 14540:1998	Intercultivation Equipment - Hand hoes - Specification	Mar 2009	
136	IS 14541:1998	Forestry and plantation tools - Hoes and forks - Specification [amalgamated revision of IS 621, 13375,13486(Pt 1), 4315]	Mar 2009	
137	IS 14855(Part 1):2000	Plant protection and vector control equipment - Fogging machines - Specification Part 1: Pulse-jet typethermal fogger	Feb 2011	
138	IS 14855(Part 2):2001	Plant protection and vector control equipment - Fogging machines - Specification : Part 2 Air blowertype thermal fogger	Feb 2011	
139	IS 15805(Part 1):2008	Straw reaper - combine - Test code: Part 1Terminology		
140	IS 15805(Part 2):2008	Straw reaper-combine - Test code: Part 2Performance tests		
141	IS 15806:2008	Combine-harvester-thresher - Selected performanceand other characteristics - Recommendations		
142	IS 15918:2011	Equipment for crop protection - Sprayers - ConnectionThreading (Adoption of ISO 4102:1984)		
143	IS 15919:2000	Draft Indian Standard - Equipment for crop protection -Test method for air assisted sprayers for bush andtree crops		
144	IS 15920:2000	Equipment for crop protection -Sprayers nozzlescolourcoding identification		
145	IS 15921:2011	Equipment for crop protection - Air assisted Sprayers - Dimension of nozzle, swivel nuts (Adoption of ISO14710:1996)		
146	IS 15923(Part 1):2011	Equipment for crop protection - Drift classification of spraying equipment: Part 1 Classes (Adoption of ISO22369-1:2006)		
147	IS 15924:2011	Equipment for crop protection - Methods for fieldmeasurement of spray drift (Adoption of ISO22866:2005)		
148	IS 15925:2012	Walk behind powered rotary tillers - Definitions, safetyrequirements and test procedures		

## FINALISED DRAFTS UNDER PRINT

Sl. No.	IS Number DOC Number	Title
1	DOC.FAD 21(1984)	Draft Indian Standard - Tractors and Machinery for Agriculture and forestry - Technical means forensuring safety: Part 6 Equipment for crop protection(Adoption of ISO 4254-6:1995)
2	DOC.FAD 21(1988)	Draft Indian Standard - Equipment for crop protection -Knapsack Sprayers: Part 1 Requirements and testmethods (Adoption of ISO 19932-1:2006)
3	DOC.FAD 21(1989)	Draft Indian Standard - Equipment for crop protection -Knapsack Sprayers: Part 2 Performance limits(Adoption of ISO 19932-2:2006)

## DRAFT STANDARDS COMPLETED WIDE CIRCULATION

Sl. No.	IS Number DOC Number	Title
1	DOC.FAD 21(2345)	Draft Amendment No 2 to IS 7593 (Part 1)Specification for Power operated pneumatic sprayercum-duster: Part 1 Knapsack type (first revision)
2	DOC.FAD 21(2346)	Draft Amendment No. 1 to IS 11313:2007 Hydraulicpower sprayers - Specification (first revision)

## ASPECT WISE REPORT

Sl. No.	Details	Tot Reports
1	PRODUCT	110
2	METHODS OF TEST	22
3	CODES OF PRACTICES	3
4	TERMINOLOGY	9
5	OTHERS	4
<b>TOTAL</b>		<b>148</b>

**\* INDICATES STANDARDS UNDER REVISION**

**\*\* INDICATES STANDARDS TO BE REVISED**

**/ INDICATES DUAL NUMBER STANDARDS**

**| INDICATES EQUIVALENT STANDARDS**