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1. List of Fungicides effective against Downy mildew diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Captan 50% WP	Capital (67), Captaf (52), Captan (41), Captra (35) and Seedcap 500 (17)	Seed treatment: 2.5 g/kg (Small seeds); 5 g/kg (Large seeds), 2.5 g/Litre for spray
Chlorothalonil 75% WP	Cluch 70 wp (17), Ishaan (52), Jatayu (22), Kavach (64) and Ovate (20)	1.5 g/Litre of water
Copper Oxychloride 50% WP	Beltox (71), Blitox (52), Blue Copper (64), Blue star (5), Blue star (58), Canopy (31), COC (72), Cocxy (39), Cop Rus (32), Cop tox (4), Cuprina (50), Dhanucop (26), Fast 50 wp (46), G-Copper (29), Green coper (16), Mangala COC (45), Oxy cop 50 w (13), Riva (23), Sarathi (55), Trucop (35) and Trust (41)	2.0-2.5 g/Litre of water
Cymoxanil 8% + Mancozeb 64% WP	Curzate (28) and Moximate (35)	2 g/Litre of water
Kresoxim methyl 44.3% SC	Ergon (52)	1.5 ml/Litre of water
Fenamidone 10% + Mancozeb 50% (w/w)	Sectin (12)	2 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Fosetyl Aluminium 80 % WP	Aliette (12)	2-3 g/Litre of water
Mancozeb 35% SC	Eurofil-NT (35) and Sahib - Manco (57)	2 ml//Litre of water
Mancozeb 75% WG	Crystal M-45 (25), Gold M-45 (23), Manfil WG (35), Marlett (22) and Utham M-45 (66)	2 g/Litre of water
Mancozeb 75% WP	Chemzeb M 45 (17), Dithane M-45 (12), Dithane M45 (27), Indofil M-45 (35), Kal zeb (40), King ZEB-45 (42), LEO M-45 (36), Maharaja (58), Marlett (22), MAX 45 (2), NCP M-45 (47), New M-45 (48), Rasayan M-45 (41), Real M-45 (5), Royal M-45 (54), Shree M-45 (32), Shri Ram M-45 (62), Solar M-45 (63), Sparsh (14), Tata M-45 (52) and Uthane M 45 (66)	2 g/Litre of water
Metalaxyl 8% + Mancozeb 64% WP	Blitecut (62), Coromil (22), HIMIL (36), Ibex (24), IPL Raksha (37), Krilaxyl (41), Krilaxyl MZ 72% WP (41), Magic (67), Master (52), Matco 8-64 (35), Racil (17), Ridomil MZ (64), Ridox (23), Role Star (51), Srilaxyl (38), Super Mo (5), Unilax (66) and Vintage (33)	2 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Propineb 70% WP	Antracol (12), Dazel (22) and Sanipeb (50) (12) and Dazel (22)	2.5-3 g/Litre of water
Zineb 75% WP	Indofil Z-78 (35)	2 g/Litre of water
Azoxystrobin 23% SC	Amistar (64), Azogro (22)	0.6g/ Litre of water
Copper Hydroxide 53.8% DF	CuPRO 2005 T/N/O (28), Kocide 101 (28), Kocide 2000 (28), Kocide 2000 T/N/O (28), Kocide 4.5 LF (28), Kocide DF (28)	3 g/ Litre of water
Cymoxanil 50%WP	Golden Union Cymoxanil 50 WP	2.4 g/ Litre of water
Cyazafamid 34.5% SC	Segway	0.4 ml/ Litre of water
Dimethomorph 50% WP	Trica (59), Promcel (75), Acrobat (40)	0.8 g/ Litre of water
Mandipropamid 23.4% SC	Revus Top (64)	0.8 ml/ Litre of water
Metalaxyl-M 31.8% ES	Ridomil (64),	2 ml/ Kg of seed
Metalaxyl 35%WS	Ridomil (64), Rampart (66), Metal-D (26), Macoze Fugicel (75)	2 ml/ Kg of seed

Chemical Name	Trade / Brand Name	Recommended Dose
Ametoctradin + Dimethomorph 20.27% w/w SC	Blend (52) Zampro (40)	1.3 ml/Litre of water
Carbendazim12%+ Mancozeb63%WP	Acer(38), Ambuja(24), Bendacol(14), C plusM (7), Care(36), Carman(15), Champanion(35), Cozeb(1), Indhusai 75(60), IPL safe (37), Kapeni(22), King saft(42), Paras (2), Riddhi (53), Saaf (66), Safer(8), Sahib Mancarb (57), Stuff (17), Trick (51) &Trimil (58)	1.5 g/ Litre of water
Picoxystobin 22.52 % w/w SC	Approach (28)	0.4 g/ Litre of water
Ziram 80% WP	Cuman L (64)	1.5-2 g/ Litre of water
Azoxystrobin 18.2% w/w + Difenoconazole 11.4% w/w SC	Amistar Top (64)	1 ml / Litre water
Famoxadone 16.6%+ Cymoxanil 22.1% SC	Equation Pro (28)	0.6 g/ Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Fenamidone 4.44%+ FosetylAI 66.7%WG	Verita (11)	2.6 g/ Litre of water
Fenamidone 10%+ Mancozeb 50%WG	Sectin (12)	3 g/ Litre of water
Fluopicolide 4.44% + Fosetyle aluminium 66.67%WG,w/w	Profiler (12)	3g/ Litre of water
MetalaxylM 4%+ Mancozeb 64%WP	Ridomil Gold (64)	2.5 g/ Litre of water
Metiram 55% + Pyraclostrobin 5% WG	Colastro (73) Cabrio top (40)	2.25 g/ Litre of water
Fenamidone10%+ Mancozeb50%WG	Sectin (12)	3g/ Litre of water
Fluopicolide 4.44% + Fosetyle aluminium 66.67%WG,w/w	Sectin (12)	2.5-3g/ Litre of water

NOTE: Serial number in parenthesis corresponds to manufacturing company (see Appendix)

2. List of Fungicides effective against Powdery mildew diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Azoxystrobin 23% SC	Amistar (64) and Azogro (22)	1 ml/Litre of water
Bitertanol 25% WP	Baycor (12)	2 g/Litre of water
Benomyl 50 % WP	Benlate (28), Benocil (67), Benofit (22), CHEMYL 50 WP (17) and Kirben (41)	2 g/kg of seeds (For Seed Treatment) or 1 g/Litre of water (For Foliar spray)
Carbendazim 50% WP	Bavistin (11), Benfil (35), Bengard (27), Benze (67), Bystell (18), Carzim-50 (20), Dazim-50 (3), Derosal 50 WP (12), Goldstin (23), IPL Carba (37), Rustone 50 (32), Sahara (36), Sahib Carb (57), Sten (22), Tristin (58) and Warrant (32)	2 g/kg of seeds (Seed Treatment), 1 g/Litre of water (Foliar spray)
Chlorothalonil 75% WP	Cluch (17), Ishaan (52), Jatayu (22), Kavach (64) and Ovate (20)	1.5 g/Litre of water
Cymoxanil 8% + Mancozeb 64% WP	Curzate (28) and Moximate (35)	2 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Difenoconazole 25% EC	Score (64)	0.5 ml/Litre of water
Dimethomorph 20.27 + Ametoctradin 27 % SC	Blend (52), Zampro (40)	2 ml/Litre of water
Kresoxim methyl 44.3% SC	Ergon (52)	1.5 ml/Litre of water
Flusilazole 40 % EC	Cursor (26), Governor (30) and Nustar (28)	1 ml/Litre of water
Hexaconazole 5% EC	AVONE (36), Conquire (66), Contaf (52), Corazole EC (22), Danzole (20), Gold (51), Hexacare (24), Hexacon (67), Hexcon (23), Hextop (61), Nector plus (38), Sitara (35), Stop (6) and Trigger (14)	1 ml/Litre of water
Hexaconazole 2% SC	AVONE+ (36), Hexaconda (58) and Samarth (52)	3 ml/Litre of water
Sulphur 80% WG	Sulfil (35)	2 g/Litre of water
Sulphur 80% WP	Sulaf (52) and Thiovit (64)	3-5 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Hexaconazole 5% SC	Chemtaf (17), Contaf Plus (52), Danzole Plus (20), Glory (15), Nector plus (38), Shree Ram Padam Plus (61) and Sitara Plus (35)	2 ml/Litre of water
Karathane 48% EC	Dinocap (27)	0.2 ml/Litre of water
Microized Wettable Sulphur 80% WP	Gold Star Brand (56) and Thiovit (64)	3-5 g/Litre of water
Myclobutanil 10% WP	Boon (35), Cygnet (14) and ISIS (70), Systhane (27)	1 g/Litre of water
Penconazole 10% EC	Topaz (64)	0.5 ml/Litre of water
Propiconazole 25% EC	Altos (70), Clit (17), Compass (23), Cosmos (15), Propcare (61), Propi (7), Propicron (22), Rimi 25 (69), Sona (36), Teer (61) and Tilt (64)	1 ml/Litre of water
Thiophanate Methyl 70% WP	Aman (38), Bayleton (12), Krileton (41) and Trifen (10) (12), Hexastop (22), Intop (14), Krileton (41), Prism (36), Rock (58), Rocksint (17), Roko (14), Thiocrop (24), Topper (67), Trifen (10), Trozen (2) and Trust (23)	1 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Triadimefon 25% WP	Bayleton (12), Krileton (41) and Trifen (10)	0.5-1 g/Litre of water
Tebuconazole25.9%/m/mEC	Orius (44)	1ml / Litre of water
Tebuconazole25% WG	Folicur (12)	250-350 ml /ac
Carbendazim12%+ Mancozeb63%WP	Acer (38), Ambuja(24), Bendacol(14), C plusM (7), Care(36), Carman(15), Champanion (35), Cozeb(1), Indhusai 75(60), IPL safe (37), Kapeni(22), King saft (42), Paras (2), Riddhi (53), Saaf (66), Safer(8), Sahib Mancarb (57), Stuff (17), Trick (51) & Trimil (58)	2g/ Lit of water
Carbendazim 46.27% SC	Bavistin (11), Benfil (35), Agni/Sten (22), Sahara (36), Zen (Nagarjua), Zoom (66), Begard (27), Dhanustin/Carzim 50 (26)	0.5 - 1g / Litre of water
Picoxystobin 22.52% w/w SC	Approach (28)	0.4 g/ Litre of water
Sulphur 40%WP	Thiovit (64),	7.5 g/ Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Sulphur 55.16% SC	Sulfil (35), Sultaf (52), Sulfex/Emisan/Sulfex gold (75), Digit (59), Insuf (66), Dhanusul (26)	3 ml/ Litre of water
Tebuconazole 25.9% EC	Orius (44)	1 ml / Litre of water
Tebuconazole 25% EC	Folicur (12)	1 ml / Litre of water
Azoxystrobin 11% + Tebuconazole-18.3% SC W/W	Custodia (Adama India Pvt. Ltd.)	1 ml/ Litre of water
Azoxystrobin 18.2% w/w + Difenoconazole 11.4% w/w SC	Amistar Top (64)	1 ml / Litre of water
Carbendazim12%+ Mancozeb 63%WP	Acer(38), Ambuja(24), Bendacol(14), C plusM (7), Care(36), Carman(15), Champanion(35), Cozeb(1), Indhusai 75(60), IPL safe (37), Kapeni(22), King saft (42), Paras (2), Riddhi (53), Saaf (66), Safer(8), Sahib Mancarb (57), Stuff (17), Trick (51) & Trimil (58)	1 g/ Lit of water

Chemical Name	Trade / Brand Name	Recommended Dose
Fluopyram 17.7% w/w + Tebuconazole 17.7% w/w SC	Luna Super (12)	0.5 g/ Litre of water
Tebuconazole 10% WP + Sulphur 65% WG	-	2.5 g/ Litre of water

NOTE: Serial number in parenthesis corresponds to manufacturing company (see Appendix)

3. List of Fungicides effective against *Alternaria* leaf spot diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Azoxystrobin 23% SC	Amistar (64) and Azogro (22)	1 ml/Litre of water
Bitertanol 25% WP	Baycor (12)	2 g/Litre of water
Captan 50% WP	Capital (67), Captaf (52) , Captan (41), Captra (35) and Seedcap 500 (17)	Seed treatment: 2.5 g/kg (Small seeds); 5 g/kg (Large seeds) 2.5g/Litre of water
Carbendazim 50% WP	Bavistin (11), Benfil (35), Bengard (27), Benze (67), Bystell (18), Carzim-50 (20), Dazim-50 (3), Derosal 50 WP (12), Goldstin (23), IPL Carba (37), Rustone 50 (32), Sahara (36), Sahib Carb (57), Sten (22), Tristin (58) and Warrant (32)	2 g/kg of seeds (Seed Treatment), 1 g/Litre of water (Foliar spray)
Chlorothalonil 75% WP	Cluch (17), Ishaan (52), Jatayu (22), Kavach (64) and Ovate (20)	1.5 g/Litre of water
Copper hydroxide 77 WP	Hydrocop (18), Kocide 101 (28) and Vimint - 05 (68)	1.5 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Copper Oxychloride 50% WP	Beltox (71), Blitox (52), Blue Copper (64), Blue star (5), Blue star (58), Canopy (31), COC (72), Cocxy (39), Cop Rus (32), Cop tox (4), Cuprina (50), Dhanucop (26), Fast 50 wp (46), G-Copper (29), Green coper (16), Mangala COC (45), Oxy cop 50 w (13), Riva (23), Sarathi (55), Trucop (35) and Trust (41)	2.0-2.5 g/Litre of water
Difenoconazole 25% EC	Score (64)	0.5 ml/Litre of water
Hexaconazole 5% EC	AVONE (36), Conqure (66), Contaf (52), Corazole EC (22), Danzole (20), Gold (51), Hexacare (24), Hexacon (67), Hexcon (23), Hextop (61), Nector plus (38), Sitara (35), Stop (6) and Trigger (14)	2-3 ml/Litre of water
Hexaconazole 2% SC	AVONE+ (36), Hexaconda (58) and Samarth (52)	3 ml/Litre of water
Hexaconazole 5% SC	Chemtaf (17), Contaf Plus (52), Danzole Plus (20), Glory (15), Nector plus (38), Shree Ram Padam Plus (61) and Sitara Plus (35)	2 ml/Litre of water
Mancozeb 35% SC	Eurofil-NT (35) and Sahib - Manco (57)	2 ml//Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Mancozeb 75% WG	Crystal M-45 (25), Gold M-45 (23), Manfil WG (35), Marlett (22) and Utham M-45 (66)	2 g/Litre of water
Mancozeb 75% WP	Chemzeb M 45 (17), Dithane M-45 (12), Dithane M45 (27), Indofil M-45 (35), Kal zeb (40), King ZEB-45 (42), LEO M-45 (36), Maharaja (58), Marlett (22), MAX 45 (2), NCP M-45 (47), New M-45 (48), Rasayan M-45 (41), Real M-45 (5), Royal M-45 (54), Shree M-45 (32), Shri Ram M-45 (62), Solar M-45 (63), Sparsh (14), Tata M-45 (52) and Uthane M 45 (66)	2 g/Litre of water
Mancozeb 63% + Carbendazim 12% WP	Acer (38), Ambuja (24), Bendaco (14), C plus M (7), Care (36), Carman (15), Champion (3), Clean up (29), CM-75 (41), Companion (35), Cozeb (1), Indhu sai-75 (60), IPL Safe (37), Kapeni (22), King soft (42), Paras (2), Riddhi (53), Saaf (66), Safer (8), Sahib Mancarb (57), Stuff (17), Trick (51) and Trimil (58)	1 g/Litre of water
Microized Wettable Sulphur 80% WP	Gold Star Brand (56) and Thiovit (64)	3-5 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Propiconazole 25% EC	Altos (70), Clit (17), Compass (23), Cosmos (15), Propcare (61), Propi (7), Propicron (22), Rimi 25 (69), Sona (36), Teer (61) and Tilt (64)	1 ml/Litre of water
Propineb 70% WP	Antracol (12), Dazel (22) and Sanipeb (50)	2.5-3 g/Litre of water
Tebuconazole 25% EC	Folicur (12)	250-350 ml/ac
Tricyclazole 18 % + Mancozeb 62 % WP	Canary (15), Merger (35) and Trizole + (40)	0.5 g/Litre of water
Zineb 75% WP	Indofil Z-78 (35)	2 g/Litre of water
Metiram 55% + Pyraclostrobin 5% WG	Colastro (73) and Cabrio top (64)	2-3g/ Litre of water

NOTE: Serial number in parenthesis corresponds to manufacturing company (see Appendix)

4. List of Fungicides effective against *Cercospora* leaf spot diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Azoxystrobin 23% SC	Amistar (64) and Azogro (22)	1 ml/Litre of water
Captan 50% WP	Capital (67), Captaf (52) , Captan (41), Captra (35) and Seedcap 500 (17)	Seed treatment: 2.5 g/kg (Small seeds); 5 g/kg (Large seeds), 2 g/Litre of water
Carbendazim 50% WP	Bavistin (11), Benfil (35), Bengard (27), Benze (67), Bystell (18), Carzim-50 (20), Dazim-50 (3), Derosal (12), Goldstin (23), IPL Carba (37), Rustone 50 (32), Sahara (36), Sahib Carb (57), Sten (22), Tristin (58) and Warrant (32)	2 g/kg of seeds (Seed Treatment), 1 g/Litre of water (Foliar spray)
Chlorothalonil 75% WP	Cluch (17), Ishaan (52), Jatayu (22), Kavach (64) and Ovate (20)	1.5 g/Litre of water
Difenoconazole 25% EC	Score (64)	0.5 ml/Litre of water
Hexaconazole 5% EC	AVONE (36), Conqure (66), Contaf (52), Corazole EC (22), Danzole (20), Gold (51), Hexacare (24), Hexacon (67), Hexcon (23), Hextop (61), Nector plus (38), Sitara (35), Stop (6) and Trigger (14)	1 ml/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Hexaconazole 2% SC	AVONE+ (36), Hexaconda (58) and Samarth (52)	3 ml/Litre of water
Hexaconazole 5% SC	Chemtaf (17), Contaf Plus (52), Danzole Plus (20), Glory (15), Nector plus (38), Shree Ram Padam Plus (61) and Sitara Plus (35)	2 ml/Litre of water
Mancozeb 35% SC	Eurofil-NT (35) and Sahib - Manco (57)	2 ml//Litre of water
Mancozeb 75% WG	Crystal M-45 (25), Gold M-45 (23), Manfil WG (35), Marlett (22) and Utham M-45 (66)	2 g/Litre of water
Mancozeb 75% WP	Chemzeb M 45 (17), Dithane M-45 (12), Dithane M45 (27), Indofil M-45 (35), Kal zeb (40), King ZEB-45 (42), LEO M-45 (36), Maharaja (58), Marlett (22), MAX 45 (2), NCP M-45 (47), New M-45 (48), Rasayan M-45 (41), Real M-45 (5), Royal M-45 (54), Shree M-45 (32), Shri Ram M-45 (62), Solar M-45 (63), Sparsh (14), Tata M-45 (52) and Uthane M 45 (66)	2 g/Litre of water



Chemical Name	Trade / Brand Name	Recommended Dose
Mancozeb 63% + Carbendazim 12% WP	Acer (38), Ambuja (24), Bendaco (14), C plus M (7), Care (36), Carman (15), Champion (3), Clean up (29), CM-75 (41), Companion (35), Cozeb (1), Indhu sai-75 (60), IPL Safe (37), Kapeni (22), King soft (42), Paras (2), Riddhi (53), Saaf (66), Safer (8), Sahib Mancarb (57), Stuff (17), Trick (51) and Trimil (58)	1 g/Litre of water
Microized Wettable Sulphur 80% WP	Gold Star Brand (56) and Thiovit (64)	3-5 g/Litre of water
Metiram 55% + Pyraclostrobin 5% WG	Colastro (73) Cabrio top (11)	2-3g/ Litre of water
Pyraclostrobin 133g/l + Epoxiconazole 50g/l SE	Opera (64)	1.5 g/ Litre of water

NOTE: Serial number in parenthesis corresponds to manufacturing company (see Appendix)

5. List of Fungicides effective against *Helminthosporium* leaf spot diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Azoxystrobin 23% SC	Amistar (64) and Azogro (22)	1 ml/Litre of water
Carbendazim 50% WP	Bavistin (11), Benfil (35), Bengard (27), Benze (67), Bystell (18), Carzim-50 (20), Dazim-50 (3), Derosal 50 WP (12), Goldstin (23), IPL Carba (37), Rustone 50 (32), Sahara (36), Sahib Carb (57), Sten (22), Tristin (58) and Warrant (32)	2 g/kg of seeds (Seed Treatment), 1 g/Litre of water (Foliar spray)
Difenoconazole 25% EC	Score (64)	0.5 ml/Litre of water
Mancozeb 35% SC	Eurofil-NT (35) and Sahib - Manco (57)	2 ml//Litre of water
Mancozeb 75% WG	Crystal M-45 (25), Gold M-45 (23), Manfil WG (35), Marlett (22) and Utham M-45 (66)	2 g/Litre of water
Mancozeb 75% WP	Chemzeb M 45 (17), Dithane M-45 (12), Dithane M45 (27), Indofil M-45 (35), Kal zeb (40), King ZEB-45 (42), LEO M-45 (36), Maharaja (58), Marlett (22), MAX 45 (2), NCP M-45 (47), New M-45 (48), Rasayan M-45 (41), Real M-45 (5), Royal M-45 (54), Shree M-45 (32), Shri Ram M-45 (62), Solar M-45 (63), Sparsh (14), Tata M-45 (52) and Uthane M 45 (66)	2 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Mancozeb 63% + Carbendazim 12% WP	Acer (38), Ambuja (24), Bendaco (14), C plus M (7), Care (36), Carman (15), Champion (3), Clean up (29), CM-75 (41), Companion (35), Cozeb (1), Indhu sai-75 (60), IPL Safe (37), Kapeni (22), King soft (42), Paras (2), Riddhi (53), Saaf (66), Safer (8), Sahib Mancarb (57), Stuff (17), Trick (51) and Trimil (58)	1 g/Litre of water
Propiconazole 25% EC	Altos (70), Clit (17), Compass (23), Cosmos (15), Propcare (61), Propi (7), Propicron (22), Rimi 25 (69), Sona (36), Teer (61) and Tilt (64)	1 ml/Litre of water
Tricyclazole 18 % + Mancozeb 62 % WP	Canary (15), Merger (35) and Trizole + (40)	0.5 g/Litre of water
Zineb 75% WP	Indofil Z-78 (35)	2 g/Litre of water

NOTE: Serial number in parenthesis corresponds to manufacturing company (see Appendix)

6. List of Fungicides effective against Septoria leaf spot diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Difenoconazole 25% EC	Score (64)	0.5 ml/Litre of water
Mancozeb 35% SC	Eurofil-NT (35) and Sahib - Manco (57)	2 ml//Litre of water
Mancozeb 75% WG	Crystal M-45 (25), Gold M-45 (23), Manfil WG (35), Marlett (22) and Utham M-45 (66)	2 g/Litre of water
Mancozeb 75% WP	Chemzeb M 45 (17), Dithane M-45 (12), Dithane M45 (27), Indofil M-45 (35), Kal zeb (40), King ZEB-45 (42), LEO M-45 (36), Maharaja (58), Marlett (22), MAX 45 (2), NCP M-45 (47), New M-45 (48), Rasayan M-45 (41), Real M-45 (5), Royal M-45 (54), Shree M-45 (32), Shri Ram M-45 (62), Solar M-45 (63), Sparsh (14), Tata M-45 (52) and Uthane M 45 (66)	2 g/Litre of water
Triadimefon 25% WP	Bayleton (12), Kruleton (41) and Trifen (10)	0.5-1 g/Litre of water

7. List of Fungicides effective against Blast/ gray leaf spot diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Azoxystrobin 23% SC	Amistar (64) and Azogro (22)	1 ml/Litre of water
Carbendazim 50% WP	Bavistin (11), Benfil (35), Bengard (27), Benze (67), Bystell (18), Carzim-50 (20), Dazim-50 (3), Derosal 50 WP (12), Goldstin (23), IPL Carba (37), Rustone 50 (32), Sahara (36), Sahib Carb (57), Sten (22), Tristin (58) and Warrant (32)	2 g/kg of seeds (Seed Treatment), 1 g/Litre of water (Foliar spray)
Hexaconazole 5% EC	AVONE (36), Conqure (66), Contaf (52), Corazole EC (22), Danzole (20), Gold (51), Hexacare (24), Hexacon (67), Hexcon (23), Hextop (61), Nector plus (38), Sitara (35), Stop (6) and Trigger (14)	1 ml/Litre of water
Hexaconazole 2% SC	AVONE+ (36), Hexaconda (58) and Samarth (52)	3 ml/Litre of water
Hexaconazole 5% SC	Chemtaf (17), Contaf Plus (52), Danzole Plus (20), Glory (15), Nector plus (38), Shree Ram Padam Plus (61) and Sitara Plus (35)	2 ml/Litre of water
Isoprothiolane 40% EC	Batista (34), Blaster (36), Fujione (52), Fuka (49) and Rhyzo (9)	1 ml/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Mancozeb 35% SC	Eurofil-NT (35) and Sahib - Manco (57)	2 ml/Litre of water
Mancozeb 75% WG	Crystal M-45 (25), Gold M-45 (23), Manfil WG (35), Marlett (22) and Utham M-45 (66)	2 g/Litre of water
Mancozeb 75% WP	Chemzeb M 45 (17), Dithane M-45 (12), Dithane M45 (27), Indofil M-45 (35), Kal zeb (40), King ZEB-45 (42), LEO M-45 (36), Maharaja (58), Marlett (22), MAX 45 (2), NCP M-45 (47), New M-45 (48), Rasayan M-45 (41), Real M-45 (5), Royal M-45 (54), Shree M-45 (32), Shri Ram M-45 (62), Solar M-45 (63), Sparsh (14), Tata M-45 (52) and Uthane M 45 (66)	2 g/Litre of water
Mancozeb 63% + Carbendazim 12% WP	Acer (38), Ambuja (24), Bendaco (14), C plus M (7), Care (36), Carman (15), Champion (3), Clean up (29), CM-75 (41), Companion (35), Cozeb (1), Indhu sai-75 (60), IPL Safe (37), Kapeni (22), King saft (42), Paras (2), Riddhi (53), Saaf (66), Safer (8), Sahib Mancarb (57), Stuff (17), Trick (51) and Trimil (58)	1 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Propiconazole 25% EC	Altos (70), Clit (17), Compass (23), Cosmos (15), Propcare (61), Propi (7), Propicron (22), Rimi 25 (69), Sona (36), Teer (61) and Tilt (64)	1 ml/Litre of water
Tebuconazole 50% + Trifloxystrobin 25% WG	Nativo (12)	0.75 g/Litre of water
Thiophanate Methyl 70% WP	Aman (38), Bayleton (12), Kruleton (41) and Trifen (10) (12), Hexastop (22), Intop (14), Kruleton (41), Prism (36), Rock (58), Rocksint (17), Roko (14), Thiocrop (24), Topper (67), Trifen (10), Trozen (2) and Trust (23)	1 g/Litre of water
Tricyclazole 75% WP	Agni (22), Beam (27), Blastin (14), Boom Plus (61), FORCE 11 (36), Gunshot (59), Indofil Baan (35), IPL Tricyclo (37), Lallari (15), Logik (50), Mangala Surakshith (45), Mantis 75 WP (52), No Blast (43), Protozone (24), SAMAR (66), Tric (41), Tricyclo (2), Trion (17), Trizole (58) and Veer (38)	3g/kg of seeds (For Seed Treatment) or 0.75-1.25 g/Litre of water (For Spray)
Tricyclazole 18 % + Mancozeb 62 % WP	Canary (15), Merger (35) and Trizole + (40)	0.5 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Triadimefon 75% WP	Bayleton (12), Kruleton (41) and Trifen (10)	0.5-1 g/Litre of water
Zineb 68% + Hexaconazole 4% WP	Avtar (35), Supermate (14) and Tekka (65)	2 g/Litre of water
Carpropamid 27.8%SC	Protiega (12)	1g/ Litre of water
Ediphenphos 50% EC	Hinosan	0.6g/ Litre of water
Kasugamycin 3% SL	Kasu-B (26)	1.5ml/ Litre of water
Kitazin 48% EC	Kitazin (74)	1ml/ Litre of water
Mancozeb + Metalaxyl 44.3% SC	-	1ml/ Litre of water
Picoxystobin 22.52% w/w SC	Approach (28)	1 ml/ Litre of water
Propiconazole 10.7%+ Tricyclazole 34.2% SE	New (64)	0.2 g/ Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Tebuconazole 25.9% EC	Orius (44)	1ml / Litre of water
Tebuconazole 25% EC	Folicur (12)	1 ml /Litre of water
Zineb 75% WP	Indofil Z-78(35)	2g/ Litre of water
Azoxystrobin 18.2% w/w + Difenoconazole 11.4% w/w SC	Amistar Top (11)	1 ml /Litre of water
Iprodione 25%+ Carbendazim 25% WP	Quintol (12)	1g/ Litre of water

NOTE: Serial number in parenthesis corresponds to manufacturing company (see Appendix)

8. List of Fungicides effective against Early blight diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Azoxystrobin 23% SC	Amistar (64) and Azogro (22)	1 ml/Litre of water
Bitertanol 25% WP	Baycor (12)	2 g/Litre of water
Captan 50% WP	Capital (67), Captaf (52) , Captan (41), Captra (35) and Seedcap 500 (17)	Seed treatment: 2.5 g/kg (Small seeds); 5 g/kg (Large seeds), 2.5 g/Litre of water
Carbendazim 50% WP	Bavistin (11), Benfil (35), Bengard (27), Benze (67), Bystell (18), Carzim-50 (20), Dazim-50 (3), Derosal 50 WP (12), Goldstin (23), IPL Carba (37), Rustone 50 (32), Sahara (36), Sahib Carb (57), Sten (22), Tristin (58) and Warrant (32)	2 g/kg of seeds (Seed Treatment), 1 g/Litre of water (Foliar spray)
Chlorothalonil 75% WP	Cluch (17),Ishaan (52), Jatayu (22),Kavach (64) and Ovate (20)	1.5 g/Litre of water
Copper hydroxide 77 WP	Hydrocop (18), Kocide 101 (28) and Vimint - 05 (68)	1.5 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Copper Oxychloride 50% WP	Beltox (71), Blitox (52), Blue Copper (64), Blue star (5), Blue star (58), Canopy (31), COC (72), Cocxy (39), Cop Rus (32), Cop tox (4), Cuprina (50), Dhanucop (26), Fast (46), G-Copper (29), Green coper (16), Mangala COC (45), Oxy cop (13), Riva (23), Sarathi (55), Trucop (35) and Trust (41)	2.0-2.5 g/Litre of water
Difenoconazole 25% EC	Score (64)	0.5 ml/Litre of water
Hexaconazole 5% EC	AVONE (36), Conquire (66), Contaf (52), Corazole (22), Danzole (20), Gold (51), Hexacare (24), Hexacon (67), Hexcon (23), Hextop (61), Nector plus (38), Sitara (35), Stop (6) and Trigger (14)	1 ml/Litre of water
Hexaconazole 2% SC	AVONE+ (36), Hexaconda (58) and Samarth (52)	3 ml/Litre of water
Hexaconazole 5% SC	Chemtaf (17), Contaf Plus (52), Danzole Plus (20), Glory (15), Nector plus (38), Shree Ram Padam Plus (61) and Sitara Plus (35)	2 ml/Litre of water
Mancozeb 35% SC	Eurofil-NT (35) and Sahib - Manco (57)	2 ml//Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Mancozeb 75% WG	Crystal M-45 (25), Gold M-45 (23), Manfil WG (35), Marlett (22) and Utham M-45 (66)	2 g/Litre of water
Mancozeb 75% WP	Chemzeb M 45 (17), Dithane M-45 (12), Dithane M45 (27), Indofil M-45 (35), Kal zeb (40), King ZEB-45 (42), LEO M-45 (36), Maharaja (58), Marlett (22), MAX 45 (2), NCP M-45 (47), New M-45 (48), Rasayan M-45 (41), Real M-45 (5), Royal M-45 (54), Shree M-45 (32), Shri Ram M-45 (62), Solar M-45 (63), Sparsh (14), Tata M-45 (52) and Uthane M 45 (66)	2 g/Litre of water
Mancozeb 63% + Carbendazim 12% WP	Acer (38), Ambuja (24), Bendaco (14), C plus M (7), Care (36), Carman (15), Champion (3), Clean up (29), CM-75 (41), Companion (35), Cozeb (1), Indhu sai-75 (60), IPL Safe (37), Kapeni (22), King saft (42), Paras (2), Riddhi (53), Saaf (66), Safer (8), Sahib Mancarb (57), Stuff (17), Trick (51) and Trimil (58)	1 g/Litre of water
Microized Wettable Sulphur 80% WP	Gold Star Brand (56) and Thiovit (64)	3-5 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Propiconazole 25% EC	Altos (70), Clit (17), Compass (23), Cosmos (15), Propcare (61), Propi (7), Propicron (22), Rimi 25 (69), Sona (36), Teer (61) and Tilt (64)	1 ml/Litre of water
Propineb 70% WP	Antracol (12), Dazel (22) and Sanipeb (50)	2.5-3 g/Litre of water
Tebuconazole 25% EC	Folicur (12)	250-350 ml/ac
Tricyclazole 18 % + Mancozeb 62 % WP	Canary (15), Merger (35) and Trizole + (40)	0.5 g/Litre of water
Zineb 75% WP	Indofil Z-78 (35)	2 g/Litre of water
Iprodione 50% WP	Overall, Proturf G, Rovral, Trilogy SC	6 g/ Litre of water
Kitazin 48% EC	Kitazin (74)	1 ml/ Litre of water
Ziram80%WP	Cuman L (64)	1.5-2 g/ Litre of water
Tebuconazole 50% + Trifloxystrobin 25% WG	Nativo (12)	0.75 g/ Litre of water

NOTE: Serial number in parenthesis corresponds to manufacturing company (see Appendix)

9. List of Fungicides effective against Late blight diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Chlorothalonil 75% WP	Cluch (17), Ishaan (52), Jatayu (22), Kavach (64) and Ovate (20)	1.5 g/Litre of water
Copper Oxychloride 50% WP	Beltox (71), Blitox (52), Blue Copper (64), Blue star (5), Blue star (58), Canopy (31), COC (72), Cocxy (39), Cop Rus (32), Cop tox (4), Cuprina (50), Dhanucop (26), Fast (46), G-Copper (29), Green coper (16), Mangala COC (45), Oxy cop (13), Riva (23), Sarathi (55), Trucop (35) and Trust (41)	2.0-2.5 g/Litre of water
Cymoxanil 8% + Mancozeb 64% WP	Curzate (28) and Moximate (35)	2 g/Litre of water
Fenamidone 10% + Mancozeb 50% (w/w)	Sectin (12)	2 g/Litre of water
Mancozeb 35% SC	Eurofil-NT (35) and Sahib - Manco (57)	2 ml//Litre of water
Mancozeb 75% WG	Crystal M-45 (25), Gold M-45 (23), Manfil WG (35), Marlett (22) and Utham M-45 (66)	2 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Mancozeb 75% WP	Chemzeb M 45 (17), Dithane M-45 (12), Dithane M45 (27), Indofil M-45 (35), Kal zeb (40), King ZEB-45 (42), LEO M-45 (36), Maharaja (58), Marlett (22), MAX 45 (2), NCP M-45 (47), New M-45 (48), Rasayan M-45 (41), Real M-45 (5), Royal M-45 (54), Shree M-45 (32), Shri Ram M-45 (62), Solar M-45 (63), Sparsh (14), Tata M-45 (52) and Uthane M 45 (66)	2 g/Litre of water
Mancozeb 63% + Carbendazim 12% WP	Acer (38), Ambuja (24), Bendaco (14), C plus M (7), Care (36), Carman (15), Champion (3), Clean up (29), CM-75 (41), Companion (35), Cozeb (1), Indhu sai-75 (60), IPL Safe (37), Kapeni (22), King soft (42), Paras (2), Riddhi (53), Saaf (66), Safer (8), Sahib Mancarb (57), Stuff (17), Trick (51) and Trimil (58)	1 g/Litre of water
Metalaxyl 8% + Mancozeb 64% WP	Blitecut (62), Coromil (22), HIMIL (36), Ibex (24), IPL Raksha (37), Krilaxyl (41), Krilaxyl MZ (41), Magic (67), Master (52), Matco 8-64 (35), Racil (17), Ridomil MZ (64), Ridox (23), Role Star (51), Srilaxyl (38), Super Mo (5), Unilax (66) and Vintage (33)	2 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Propineb 70% WP	Antracol (12), Dazel (22) and Sanipeb (50)	2.5-3 g/Litre of water
Zineb 75% WP	Indofil Z-78 (35)	2 g/Litre of water
Copper hydroxide 53.8% DF	CuPRO 2005 T/N/O (28), Kocide 101 (28), Kocide 2000 (28), Kocide 2000 T/N/O (28), Kocide 4.5 LF (28), Kocide DF (28)	3g/ Litre of water
Cyazafamid 34.5% SC	Segway	0.4g/ Litre of water
Dimethomorph 50%WP	Trica (59), Promcel (75), Acrobat (11)	0.8g/ Litre of water
Mandipropamid 23.4% SC	-	0.8 ml/ Litre of water
Carbendazim 25%+ Mancozeb 50% WS	Companion (35), Care (36), Nagarjuna Combi Plus (59) Saaf (66), Sixer (26), Trophy (Zuari)	3 ml / Litre of water
Ametoctradin + Dimethomorph 20.27% w/w SC	Blend (52), Zampro (11)	2ml /Litre of water
Fenamidone10%+ Mancozeb50%WG	Section (12)	2g/ Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
MetalaxylM4%+ Mancozeb64%WP	Ridomil Gold (64)	2.5g/ Litre of water
Metalaxyl M 3.3%+ Chlorothalonil 33.1% SC	Folio Gold (64)	0.5- 1 g/ Litre of water

NOTE: Serial number in parenthesis corresponds to manufacturing company (see Appendix)

10. List of Fungicides effective against Sheath blight diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Carbendazim 50% WP	Bavistin (11), Benfil (35), Bengard (27), Benze (67), Bystell (18), Carzim-50 (20), Dazim-50 (3), Derosal 50 WP (12), Goldstin (23), IPL Carba (37), Rustone 50 (32), Sahara (36), Sahib Carb (57), Sten (22), Tristin (58) and Warrant (32)	2 g/kg of seeds (Seed Treatment), 1 g/Litre of water (Foliar spray)
Flusilazole 40 % EC	Cursor (26), Governor (30) and Nustar (28)	1 ml/Litre of water
Hexaconazole 5% EC	AVONE (36), Conqure (66), Contaf (52), Corazole EC (22), Danzole (20), Gold (51), Hexacare (24), Hexacon (67), Hexcon (23), Hextop (61), Nector plus (38), Sitara (35), Stop (6) and Trigger (14)	1 ml/Litre of water
Hexaconazole 2% SC	AVONE+ (36), Hexaconda (58) and Samarth (52)	3 ml/Litre of water
Hexaconazole 5% SC	Chemtaf (17), Contaf Plus (52), Danzole Plus (20), Glory (15), Nector plus (38), Shree Ram Padam Plus (61) and Sitara Plus (35)	2 ml/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Iprodione + Carbendazim 50 WP	Quintal (12)	200 g/ac
Pencycuron 25 % SC	Monceren (12)	250-330 ml/ac
Propiconazole 25% EC	Altos (70), Clit (17), Compass (23), Cosmos (15), Propcare (61), Propi (7), Propicron (22), Rimi 25 (69), Sona (36), Teer (61) and Tilt (64)	1 ml/Litre of water
Tebuconazole 25% EC	Folicur (12)	250-350 ml/ac
Tebuconazole 50% + Trifloxystrobin 25% WG	Nativo (12)	0.75 g/Litre of water
Tricyclazole 18 % + Mancozeb 62 % WP	Canary (15), Merger (35) and Trizole + (40)	0.5 g/Litre of water
Zineb 68% + Hexaconazole 4% WP	Avtar (35), Supermate (14) and Tekka (65)	2 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Tricyclazole 75% WP	Agni (22), Beam (27), Blastin (14), Boom Plus (61), FORCE 11 (36), Gunshot (59), Indofil Baan (35), IPL Tricyclo (37), Lallari (15), Logik (50), Mangala Surakshith (45), Mantis 75 WP (52), No Blast (43), Protozone (24), SAMAR (66), Tric (41), Tricyclo (2), Trion (17), Trizole (58) and Veer (38)	3g/kg of seeds (For Seed Treatment) or 0.75-1.25 g/Litre of water (For Spray)
Difenoconazole 25% EC	Score (64)	0.5ml/ Litre of water
Hexaconazole 75 % WG	Several (73)	0.13g/ Litre of water
Iprodione 50% WP	Overall, Proturf G, Rovral, Trilogy SC	3 g/ Litre of water
Kitazin 48% EC	Kitazin (74)	1 ml/ Litre of water
Propiconazole 10.7%+ Tricyclazole 34.2% SE	New (64)	0.5- 1 ml/ Liter of water

Chemical Name	Trade / Brand Name	Recommended Dose
Thifluzamide 24% SC	Vista (59) Pulsor (36)	0.75g/ Litre of water
Thiram 40 FS	Thiram	0.5 - 1 ml/ Litre of water
Validamycin 3% L	Rhizocin (59), Sheathmar (26)	2.6g/ Litre of water
Azoxystrobin 11% + Tebuconazole-18.3% SC W/W	Custodia (Adama India Pvt. Ltd.)	1.5 g/ Litre of water
Azoxystrobin 18.2% w/w + Difenoconazole 11.4% w/w SC	Amister top (64)	1ml/ Litre of water
Carbendazim 25 %+ Flusilazole 12.5% SE	-	2 ml/Litre of water
Iprodione 25%+ Carbendazim 25% WP	Quintol (12)	1g/ Litre of water
Propiconazole 13.9% + Difenoconazole 13.9% EC	-	1ml/ Litre of water

NOTE: Serial number in parenthesis corresponds to manufacturing company (see Appendix)

11. List of Fungicides effective against Anthracnose diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Carbendazim 50% WP	Bavistin (11), Benfil (35), Bengard (27), Benze (67), Bystell (18), Carzim-50 (20), Dazim-50 (3), Derosal 50 WP (12), Goldstin (23), IPL Carba (37), Rustone 50 (32), Sahara (36), Sahib Carb (57), Sten (22), Tristin (58) and Warrant (32)	2 g/kg of seeds (Seed Treatment), 1 g/Litre of water (Foliar spray)
Chlorothalonil 82.5% WDG	Bravo Ultrex (64) and Daconil Ultrex (64)	0.6-1.2 kg/ac
Chlorothalonil 75% WP	Cluch 70 (17), Ishaan (52), Jatayu (22), Kavach (64) and Ovate (20)	1.5 g/Litre of water
Cymoxanil 8% + Mancozeb 64% WP	Curzate (28) and Moximate (35)	2 g/Litre of water
Copper hydroxide 77 WP	Hydrocop (18), Kocide 101 (28) and Vimint - 05 (68)	1.5 g/Litre of water
Mancozeb 35% SC	Eurofil-NT (35) and Sahib - Manco (57)	2 ml//Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Mancozeb 75% WG	Crystal M-45 (25), Gold M-45 (23), Manfil WG (35), Marlett (22) and Utham M-45 (66)	2 g/Litre of water
Mancozeb 75% WP	Chemzeb M 45 (17), Dithane M-45 (12), Dithane M45 (27), Indofil M-45 (35), Kal zeb (40), King ZEB-45 (42), LEO M-45 (36), Maharaja (58), Marlett (22), MAX 45 (2), NCP M-45 (47), New M-45 (48), Rasayan M-45 (41), Real M-45 (5), Royal M-45 (54), Shree M-45 (32), Shri Ram M-45 (62), Solar M-45 (63), Sparsh (14), Tata M-45 (52) and Uthane M 45 (66)	2 g/Litre of water
Mancozeb 63% + Carbendazim 12% WP	Acer (38), Ambuja (24), Bendaco (14), C plus M (7), Care (36), Carman (15), Champion (3), Clean up (29), CM-75 (41), Companion (35), Cozeb (1), Indhu sai-75 (60), IPL Safe (37), Kapeni (22), King saft (42), Paras (2), Riddhi (53), Saaf (66), Safer (8), Sahib Mancarb (57), Stuff (17), Trick (51) and Trimil (58)	1 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Propiconazole 25% EC	Altos (70), Clit (17), Compass (23), Cosmos (15), Propcare (61), Propi (7), Propicron (22), Rimi 25 (69), Sona (36), Teer (61) and Tilt (64)	1 ml/Litre of water
Propineb 70% WP	Antracol (12), Dazel (22) and Sanipeb (50)	2.5-3 g/Litre of water
Tebuconazole 25% EC	Folicur (12)	250-350 ml/ac
Zineb 75% WP	Indofil Z-78 (35)	2 g/Litre of water
Azoxystrobin 23% SC	Amistar (64), Azogro (22), Ergon (52)	1ml/ Litre of water
Captan 50% WG	-	3g/ Litre of water
Copper Oxychloride 50% WG	-	2.5g/ Litre of water
Difenoconazole 25% EC	Score (64)	0.5ml/ Litre of water
Iprodione 50% WP	Rovral,	2g/ Litre of water
Kitazin 48% EC	-	1g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
ThiophanateMethyl 70%WP	Aman(38), Bayleton (12), Ksileton (41), Trifen(10), Hexastop (22), Intop (14), Krileton (41), Prism (36), Rock (58), Rocksin (17), Roko (14), Thiococop(24), Topper (67), Trifen (10), Trozen (2) & Trust (23)	1g/ Litre of water
Ziram80%WP	-	2g/ Litre of water
Captan70%+ Hexaconazole 5%WP	Taquat (52)	2g/ Litre of water
Fluopyram17.7% w/w+ Tebconazole17.7%w/w SC	Luna (12)	0.5ml/ Litre of water
Metiram 55% + Pyraclostrobin 5% WG	Colastro (73)	2.3g/ Litre of water

NOTE: Serial number in parenthesis corresponds to manufacturing company (see Appendix)

2. List of Fungicides effective against scab diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Bitertanol 25% WP	Baycor (12)	2 g/Litre of water
Carbendazim 50% WP	Bavistin (11), Benfil (35), Bengard (27), Benze (67), Bystell (18), Carzim-50 (20), Dazim-50 (3), Derosal (12), Goldstin (23), IPL Carba (37), Rustone 50 (32), Sahara (36), Sahib Carb (57), Sten (22), Tristin (58) and Warrant (32)	2 g/kg of seeds (Seed Treatment), 1 g/Litre of water (Foliar spray)
Captan 50% WP	Capital (67), Captaf (52) , Captan (41), Captra (35) and Seedcap 500 (17)	Seed treatment: 2.5 g/kg (Small seeds); 5 g/kg (Large seeds), 2.5 g/Litre of water
Copper Oxychloride 50% WP	Beltox (71), Blitox (52), Blue Copper (64), Blue star (5), Blue star (58), Canopy (31), COC (72), Cocxy (39), Cop Rus (32), Cop tox (4), Cuprina (50), Dhanucop (26), Fast 50 wp (46), G-Copper (29), Green coper (16), Mangala COC (45), Oxy cop 50 w (13), Riva (23), Sarathi (55), Trucop (35) and Trust (41)	2.0-2.5 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Dodine 65% WP	Award (23), Dodine (38) and Noor (35)	0.75 g/Litre of water
Flusilazole 40 % EC	Cursor (26), Governor (30) and Nustar (28)	0.2 ml/Litre of water
Hexaconazole 5% EC	AVONE (36), Conquire (66), Contaf (52), Corazole EC (22), Danzole (20), Gold (51), Hexacare (24), Hexacon (67), Hexcon (23), Hextop (61), Nector plus (38), Sitara (35), Stop (6) and Trigger (14)	1 ml/Litre of water
Hexaconazole 2% SC	AVONE+ (36), Hexaconda (58) and Samarth (52)	3 ml/Litre of water
Hexaconazole 5% SC	Chemtaf (17), Contaf Plus (52), Danzole Plus (20), Glory (15), Nector plus (38), Shree Ram Padam Plus (61) and Sitara Plus (35)	2 ml/Litre of water
Myclobutanil 10% WP	Boon (35), Cygnet (14) and ISIS (70)	0.4 g/Litre of water
Propineb 70% WP	Antracol (12), Dazel (22) and Sanipeb (50)	2.5-3 g/Litre of water
Zineb 75% WP	Indofil Z-78 (35)	2 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Difenoconazole 25% EC	Score (64)	0.5ml/ Litre of water
Dithianon 75% WP	Delan 750 WP	0.75 g/ Litre of water
Fenarimol 12% EC	Rubigan	0.5 ml/Litre of water
Mancozeb 75% WP	Chemzeb M45 (17), Dithane M-45 (12), Dithane M 45 (27), Indofil M-45 (35), Kalzeb (40), Kingzeb-45 (42), Leo M-45 (36), Maharaja (58), Marlett (22), Max 45 (2), NCP M-45 (41), Real M-45 (5), Royal M-45 (54), Shree M-45 (32), Shri Ram M-45 (62), Solar M-45 (63), Sparsh (14), Tata M-45 (52) & Uthane M 45 (66)	2g/ Litre of water
Penconazole 10% EC	Topaz (64)	0.5ml/ Litre of water
Propineb 70% WP	Antracol (12), Dazel (22) & Saripeb (50)	2.5-3g/ Litre of water
Sulphur 80% WG	Sulfil (35), Thiovit (64), Sulfil (35), Sultaf (52), Sulfex/Emisan/Sulfex gold (75), Digit (59), Insuf (66), Dhanusul (26)	2g/ Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
ThiophanateMethyl 70%WP	Aman(38), Bayleton (12), Ksileton (41), Trifen(10), Hexastop (22), Intop (14), Krileton (41), Prism (36), Rock (58), Rocksin (17), Roko (14), Thiococop(24), Topper (67), Trifen (10), Trozen (2) & Trust (23)	1g/ Litre of water
Thiram75%WS	Thiram	2.5-3g/ Litre of water
Ziram 27%EC	Cuman L (64)	2 ml/Litre of water

NOTE: Serial number in parenthesis corresponds to manufacturing company (see Appendix)

13. List of Fungicides effective against rust diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Azoxystrobin 23% SC	Amistar (64) and Azogro (22)	1 ml/Litre of water
Bitertanol 25% WP	Baycor (12)	2 g/Litre of water
Carbendazim 50% WP	Bavistin (11), Benfil (35), Bengard (27), Benze (67), Bystell (18), Carzim-50 (20), Dazim-50 (3), Derosal (12), Goldstin (23), IPL Carba (37), Rustone 50 (32), Sahara (36), Sahib Carb (57), Sten (22), Tristin (58) and Warrant (32)	2 g/kg of seeds (Seed Treatment), 1 g/Litre of water (Foliar spray)
Cymoxanil 8% + Mancozeb 64% WP	Curzate (28) and Moximate (35)	2 g/Litre of water
Difenoconazole 25% EC	Score (64)	0.5 ml/Litre of water
Hexaconazole 5% EC	AVONE (36), Conquire (66), Contaf (52), Corazole EC (22), Danzole (20), Gold (51), Hexacare (24), Hexacon (67), Hexcon (23), Hextop (61), Nector plus (38), Sitara (35), Stop (6) and Trigger (14)	2-3 ml/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Hexaconazole 2% SC	AVONE+ (36), Hexaconda (58) and Samarth (52)	3 ml/Litre of water
Hexaconazole 5% SC	Chemtaf (17), Contaf Plus (52), Danzole Plus (20), Glory (15), Nector plus (38), Shree Ram Padam Plus (61) and Sitara Plus (35)	2 ml/Litre of water
Kresoxim methyl 44.3% SC	Eurofil-NT (35) and Sahib - Manco (57), Ergon (52)	1 ml//Litre of water
Mancozeb 75% WG	Crystal M-45 (25), Gold M-45 (23), Manfil WG (35), Marlett (22) and Utham M-45 (66)	2 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Mancozeb 75% WP	Chemzeb M 45 (17), Dithane M-45 (12), Dithane M45 (27), Indofil M-45 (35), Kal zeb (40), King ZEB-45 (42), LEO M-45 (36), Maharaja (58), Marlett (22), MAX 45 (2), NCP M-45 (47), New M-45 (48), Rasayan M-45 (41), Real M-45 (5), Royal M-45 (54), Shree M-45 (32), Shri Ram M-45 (62), Solar M-45 (63), Sparsh (14), Tata M-45 (52) and Uthane M 45 (66)	2 g/Litre of water
Mancozeb 63% + Carbendazim 12% WP	Acer (38), Ambuja (24), Bendaco (14), C plus M (7), Care (36), Carman (15), Champion (3), Clean up (29), CM-75 (41), Companion (35), Cozeb (1), Indhu sai-75 (60), IPL Safe (37), Kapeni (22), King soft (42), Paras (2), Riddhi (53), Saaf (66), Safer (8), Sahib Mancarb (57), Stuff (17), Trick (51) and Trimil (58)	1 g/Litre of water
Metalaxyl 8% + Mancozeb 64% WP	Blitecut (62), Coromil (22), HIMIL (36), Ibex (24), IPL Raksha (37), Krilaxyl (41), Krilaxyl MZ 72% WP (41), Magic (67), Master (52), Matco 8-64 (35), Racil (17), Ridomil MZ (64), Ridox (23), Role Star (51), Srilaxyl (38), Super Mo (5), Unilax (66) and Vintage (33)	2 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Propiconazole 25% EC	Altos (70), Clit (17), Compass (23), Cosmos (15), Propcare (61), Propi (7), Propicron (22), Rimi 25 (69), Sona (36), Teer (61) and Tilt (64)	1 ml/Litre of water
Sulphur 80% WP	Sulaf (52) and Thiovit (64)	3-5 g/Litre of water
Tebuconazole 25% EC	Folicur (12)	250-350 ml/ac
Tebuconazole 25.9% EC	Orius (44)	1 ml/Litre of water
Triadimefon 75% WP	Bayleton (12), Kruleton (41) and Trifen (10)	0.5-1 g/Litre of water
Triademorph 80% EC	Calixin (11)	2 ml/Litre of water
Bitertanol 25%WP	Baycor (12)	2g/ Litre of water
Chlorothalonil 75% WP	Cluch (17), Ishaan (52), Jatayu (22), Kavech (64), & Ovate (20)	1.5g/ Litre of water
Copper oxy chloride 50% WP	Blitox (52)	5.5 g/ Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Tebuconazole 25% WG	Folicur (12)	250-350 ml /ac
ThiophanateMethyl 70%WP	Aman(38), Bayleton (12), Ksileton (41), Trifen(10), Hexastop (22), Intop (14), Kruleton (41), Prism (36), Rock (58), Rocksin (17), Roko (14), Thiococop(24), Topper (67), Trifen (10), Trozen (2) & Trust (23)	1g/ Litre of water
Triadimefon 25% WP	Bayleton (12), Kruleton (41) &Trifen (10)	0.5-1g/ Litre of water
Zineb75%WP	Indofil Z-78(35)	2g/ Litre of water
Azoxystrobin 18.2% w/w + Difenoconazole 11.4% w/w SC	Amistar Top (64)	1ml/ Litre of water
Pyraclostrobin 133g/l + Epoconazole 50g/l SE	-	1g/ Litre of water

NOTE: Serial number in parenthesis corresponds to manufacturing company (see Appendix)

14. List of Fungicides effective against smut diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Carboxin 17.5% + Thiram 17.5% FF	Vitavax Ultra FF (26)	2.5 ml/kg of seeds (Seed Treatment)
Carboxin 37.5% + Thiram 37.5% DS	Vitavax Powder (26) and Vitavax-Thiram (12)	2-3 g/kg of seeds (Seed Treatment)

NOTE: Serial number in parenthesis corresponds to manufacturing company (see Appendix)

15. List of Fungicides effective against false smut diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Benomyl 50 % WP	Benlate (28), Benocil (67), Benofit (22), CHEMYL 50 WP (17) and Kirben (41)	2 g/kg of seeds (For Seed Treatment) or 1 g/Litre of water (For Foliar spray)
Carbendazim 50% WP	Bavistin (11), Benfil (35), Bengard (27), Benze (67), Bystell (18), Carzim-50 (20), Dazim-50 (3), Derosal 50 WP (12), Goldstin (23), IPL Carba (37), Rustone 50 (32), Sahara (36), Sahib Carb (57), Sten (22), Tristin (58) and Warrant (32)	2 g/kg of seeds (Seed Treatment), 1 g/Litre of water (Foliar spray)
Copper hydroxide 77 WP	Hydrocop 77 WP (18), Kocide 101 (28) and Vimint - 05 (68)	1.5 g/Litre of water
Copper Oxychloride 50% WP	Beltox (71), Blitox (52), Blue Copper (64), Blue star (5), Blue star (58), Canopy (31), COC (72), Cocxy (39), Cop Rus (32), Cop tox (4), Cuprina (50), Dhanucop (26), Fast 50 wp (46), G-Copper (29), Green coper (16), Mangala COC (45), Oxy cop 50 w (13), Riva (23), Sarathi (55), Trucop (35) and Trust (41)	2.0-2.5 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Edifenphos 50 % EC	Hinosan 50 EC (12)	1.5 ml/Litre of water
Hexaconazole 2% SC	AVONE+ (36), Hexaconda (58) and Samarth (52)	3 ml/Litre of water
Hexaconazole 5% SC	Chemtaf (17), Contaf Plus (52), Danzole Plus (20), Glory (15), Nector plus (38), Shree Ram Padam Plus (61) and Sitara Plus (35)	2 ml/Litre of water
Propiconazole 25% EC	Altos (70), Clit (17), Compass (23), Cosmos (15), Propcare (61), Propi (7), Propicron (22), Rimi 25 (69), Sona (36), Teer (61) and Tilt (64)	1 ml/Litre of water
Tebuconazole 25% EC	Folicur (12)	250-350 ml/ac
Copper Hydroxide 77% WP	Hydeocop (18), Kocide (28), Vimit (68)	1.5 g/ Litre of water
Copper Hydroxide 53.8% DF	CuPRO 2005 T/N/O (28), Kocide 101 (28), Kocide 2000 (28), Kocide 2000 T/N/O (28), Kocide 4.5 LF (28), Kocide DF (28)	1.5 g/ Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Tebuconazole 50% + Trifloxystrobin 25% WG	Nativo (12)	0.75 g/ Litre

NOTE: Serial number in parenthesis corresponds to manufacturing company (see Appendix)

16. List of Fungicides effective against bunt diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Benomyl 50 % WP	Benlate (28), Benocil (67), Benofit (22), CHEMYL 50 WP (17) and Kirben (41)	2 g/kg of seeds (For Seed Treatment) or 1 g/Litre of water (For Foliar spray)
Mancozeb 35% SC	Eurofil-NT (35) and Sahib - Manco (57)	2 ml//Litre of water
Mancozeb 75% WG	Crystal M-45 (25), Gold M-45 (23), Manfil WG (35), Marlett (22) and Utham M-45 (66)	2 g/Litre of water
Mancozeb 75% WP	Chemzeb M 45 (17), Dithane M-45 (12), Dithane M45 (27), Indofil M-45 (35), Kal zeb (40), King ZEB-45 (42), LEO M-45 (36), Maharaja (58), Marlett (22), MAX 45 (2), NCP M-45 (47), New M-45 (48), Rasayan M-45 (41), Real M-45 (5), Royal M-45 (54), Shree M-45 (32), Shri Ram M-45 (62), Solar M-45 (63), Sparsh (14), T ata M-45 (52) and Uthane M 45 (66)	2 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Mancozeb 63% + Carbendazim 12% WP	Acer (38), Ambuja (24), Bendaco (14), C plus M (7), Care (36), Carman (15), Champion (3), Clean up (29), CM-75 (41), Companion (35), Cozeb (1), Indhu sai-75 (60), IPL Safe (37), Kapeni (22), King saft (42), Paras (2), Riddhi (53), Saaf (66), Safer (8), Sahib Mancarb (57), Stuff (17), Trick (51) and Trimil (58)	1 g/Litre of water
Mancozeb 50% + Carbendazim 25% WS	Sprint (35)	2.5-3 g/kg of seeds (Seed Treatment)
Propiconazole 25% EC	Altos (70), Clit (17), Compass (23), Cosmos (15), Propcare (61), Propi (7), Propicron (22), Rimi 25 (69), Sona (36), Teer (61) and Tilt (64)	1 ml/Litre of water
Triadimefon 75% WP	Bayleton (12), Kruleton (41) and Trifen (10)	0.5-1 g/Litre of water
Bitertanol25WP	Baycor (12)	3g/Litre of water
Carboxin75%WP	Vitavax (26)	2-2.5g/ kg seed
Thiram75%WS	Thiram	2.5-3.0g/ Litre of water
Triadimefon 25% WP	Bayleton (12), Kruleton (41) &Trifen (10)	0.5-1g/ Litre of water

NOTE: Serial number in parenthesis corresponds to manufacturing company (see Appendix)

17a. List of Fungicides effective against damping off (*Sclerotium* and *Rhizoctonia*) diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Carbendazim 50% WP	Bavistin (11), Benfil (35), Bengard (27), Benze (67), Bystell (18), Carzim-50 (20), Dazim-50 (3), Derosal 50 WP (12), Goldstin (23), IPL Carba (37), Rustone 50 (32), Sahara (36), Sahib Carb (57), Sten (22), Tristin (58) and Warrant (32)	2 g/kg of seeds (Seed Treatment), 1 g/Litre of water (Foliar spray)
Chlorothalonil 82.5% WDG	Bravo Ultrex (64) and Daconil Ultrex (64)	0.6-1.2 kg/ac
Chlorothalonil 75% WP	Cluch (17), Ishaan (52), Jatayu (22), Kavach (64) and Ovate (20)	1.5 g/Litre of water
Copper Oxychloride 50% WP	Beltox (71), Blitox (52), Blue Copper (64), Blue star (5), Blue star (58), Canopy (31), COC (72), Cocxy (39), Cop Rus (32), Cop tox (4), Cuprina (50), Dhanucop (26), Fast 50 wp (46), G-Copper (29), Green coper (16), Mangala COC (45), Oxy cop 50 w (13), Riva (23), Sarathi (55), Trucop (35) and Trust (41)	2.0-2.5 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Cymoxanil 8% + Mancozeb 64% WP	Curzate (28) and Moximate (35)	2 g/Litre of water
Mancozeb 35% SC	Eurofil-NT (35) and Sahib - Manco (57)	2 ml//Litre of water
Mancozeb 75% WG	Crystal M-45 (25), Gold M-45 (23), Manfil WG (35), Marlett (22) and Utham M-45 (66)	2 g/Litre of water
Mancozeb 75% WP	Chemzeb M 45 (17), Dithane M-45 (12), Dithane M45 (27), Indofil M-45 (35), Kal zeb (40), King ZEB-45 (42), LEO M-45 (36), Maharaja (58), Marlett (22), MAX 45 (2), NCP M-45 (47), New M-45 (48), Rasayan M-45 (41), Real M-45 (5), Royal M-45 (54), Shree M-45 (32), Shri Ram M-45 (62), Solar M-45 (63), Sparsh (14), Tata M-45 (52) and Uthane M 45 (66)	2 g/Litre of water
Mancozeb 63% + Carbendazim 12% WP	Acer (38), Ambuja (24), Bendaco (14), C plus M (7), Care (36), Carman (15), Champion (3), Clean up (29), CM-75 (41), Companion (35), Cozeb (1), Indhu sai-75 (60), IPL Safe (37), Kapeni (22), King saft (42), Paras (2), Riddhi (53), Saaf (66), Safer (8), Sahib Mancarb (57), Stuff (17), Trick (51) and Trimil (58)	1 g/Litre of water
Mancozeb 50% + Carbendazim 25% WS	Sprint (35)	2.5-3 g/kg of seeds (Seed Treatment)

Chemical Name	Trade / Brand Name	Recommended Dose
Captan75%WS	Captra (35), Captaf (52), Dhanutan (26)	2.0-3g/Kg of seed
Mancozeb75%WP	Chemzeb M45 (17), Dithane M-45 (12), Dithane M 45 (27), Indofil M-45 (35), Kalzeb (40), Kingzeb-45 (42), Leo M-45 (36), Maharaja(58), Marlett(22), Max 45(2), NCP M-45 (41), Real M-45(5), Royal M-45 (54), Shree M-45(32), Shri Ram M-45 (62), Solar M-45(63), Sparsh (14), Tata M-45 (52) &Uthane M 45(66)	2g/Litre of water
Metalaxyl M4%+ Mancozeb 64%WP	Matco 8-64 (35), Master (52), Himil/Carpet (36) Unilax/Zeemil (66), Mancomet (Zuari)	0.20g/ Litre of water
Thiophanate Methyl 450g/l + Pyraclostrobin 50g/l w/v FS	-	0.5 g/ Liter of water

NOTE: Serial number in parenthesis corresponds to manufacturing company (see Appendix)

17b. List of Fungicides effective against damping off (*Pythium* and *Phytophthora*) diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Fosetyl Aluminium 80 % WP	Aliette (12)	2-3 g/Litre of water
Metalaxyl 8% + Mancozeb 64% WP	Blitecut (62), Coromil (22), HIMIL (36), Ibex (24), IPL Raksha (37), Krilaxyl (41), Krilaxyl MZ (41), Magic (67), Master (52), Matco 8-64 (35), Racil (17), Ridomil MZ (64), Ridox (23), Role Star (51), Srilaxyl (38), Super Mo (5), Unilax (66) and Vintage (33)	2 g/Litre of water
Captan 75% WS	Captra (35), Captaf (52), Dhanutan (26)	2.0-3g/Kg of seed
Mancozeb 75% WP	Chemzeb M45 (17), Dithane M-45 (12), Dithane M 45 (27), Indofil M-45 (35), Kalzeb (40), Kingzeb-45 (42), Leo M-45 (36), Maharaja (58), Marlett (22), Max 45 (2), NCP M-45 (41), Real M-45 (5), Royal M-45 (54), Shree M-45 (32), Shri Ram M-45 (62), Solar M-45 (63), Sparsh (14), Tata M-45 (52) & Uthane M 45 (66)	2.0-3g/Kg of seed
Thiophanate Methyl 450 g/l + Pyraclostrobin 50 g/l w/v FS	-	0.5 g/ Liter of water

18. List of Fungicides effective against die back diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Azoxystrobin 23% SC	Ergon (52)	1ml/Litre
Carbendazim 50% WP	Bavistin (11), Benfil (35), Bengard (27), Benze (67), Bystell (18), Carzim-50 (20), Dazim-50 (3), Derosal 50 WP (12), Goldstin (23), IPL Carba (37), Rustone 50 (32), Sahara (36), Sahib Carb (57), Sten (22), Tristin (58) and Warrant (32)	2 g/kg of seeds (Seed Treatment), 1 g/Litre of water (Foliar spray)
Propineb 70% WP	Antracol (12), Dazel (22) and Sanipeb (50)	2.5-3 g/Litre of water
Tebuconazole 25% EC	Folicur (12)	250-350 ml/ac
Kitazin 48% EC	Kitazin (74)	1 ml/ Litre of water
Myclobutanil 10% WP	Boon (35), Cygnet (14) & ISIS (70)	1g/Litre of water
Azoxytrobin 11%+Tebuc-onazole-18.3% SC W/W	-	0.9g/Litre of water
Difenoconazole25% EC	Score (64)	0.5ml/Litre of water

NOTE: Serial number in parenthesis corresponds to manufacturing company (see Appendix)

19. List of Fungicides effective against Collar rot diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Carbendazim 50% WP	Bavistin (11), Benfil (35), Bengard (27), Benze (67), Bystell (18), Carzim-50 (20), Dazim-50 (3), Derosal 50 WP (12), Goldstin (23), IPL Carba (37), Rustone 50 (32), Sahara (36), Sahib Carb (57), Sten (22), Tristin (58) and Warrant (32)	2 g/kg of seeds (Seed Treatment), 1 g/Litre of water (Foliar spray)
Copper Oxychloride 50% WP	Beltox (71), Blitox (52), Blue Copper (64), Blue star (5), Blue star (58), Canopy (31), COC (72), Cocxy (39), Cop Rus (32), Cop tox (4), Cuprina (50), Dhanucop (26), Fast 50 wp (46), G-Copper (29), Green coper (16), Mangala COC (45), Oxy cop 50 w (13), Riva (23), Sarathi (55), Trucop (35) and Trust (41)	2.0-2.5 g/Litre of water
Mancozeb 35% SC	Eurofil-NT (35) and Sahib - Manco (57)	2 ml//Litre of water
Mancozeb 75% WG	Crystal M-45 (25), Gold M-45 (23), Manfil WG (35), Marlett (22) and Utham M-45 (66)	2 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Mancozeb 75% WP	Chemzeb M 45 (17), Dithane M-45 (12), Dithane M45 (27), Indofil M-45 (35), Kal zeb (40), King ZEB-45 (42), LEO M-45 (36), Maharaja (58), Marlett (22), MAX 45 (2), NCP M-45 (47), New M-45 (48), Rasayan M-45 (41), Real M-45 (5), Royal M-45 (54), Shree M-45 (32), Shri Ram M-45 (62), Solar M-45 (63), Sparsh (14), Tata M-45 (52) and Uthane M 45 (66)	2 g/Litre of water
Mancozeb 63% + Carbendazim 12% WP	Acer (38), Ambuja (24), Bendaco (14), C plus M (7), Care (36), Carman (15), Champion (3), Clean up (29), CM-75 (41), Companion (35), Cozeb (1), Indhu sai-75 (60), IPL Safe (37), Kapeni (22), King saft (42), Paras (2), Riddhi (53), Saaf (66), Safer (8), Sahib Mancarb (57), Stuff (17), Trick (51) and Trimil (58)	1 g/Litre of water
Mancozeb 50% + Carbendazim 25% WS	Sprint (35)	1 g/kg of seeds
Thiram75%WS	Thiram	50g/Litre of water

NOTE: Serial number in parenthesis corresponds to manufacturing company (see Appendix)

20. List of Fungicides effective against Foot rot diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Carbendazim 50% WP	Bavistin (11), Benfil (35), Bengard (27), Benze (67), Bystell (18), Carzim-50 (20), Dazim-50 (3), Dersal 50 WP (12), Goldstin (23), IPL Carba (37), Rustone 50 (32), Sahara (36), Sahib Carb (57), Sten (22), Tristin (58) and Warrant (32)	2 g/kg of seeds (Seed Treatment), 1 g/Litre of water (Foliar spray)
Carboxin 17.5% + Thiram 17.5% FF	Vitavax Ultra FF (26)	2.5 ml/kg of seeds (Seed Treatment)
Carboxin 37.5% + Thiram 37.5% DS	Vitavax Powder (26) and Vitavax-Thiram (12)	2-3 g/kg of seeds (Seed Treatment)
Metalaxyl 8% + Mancozeb 64% WP	Blitecut (62), Coromil (22), HIMIL (36), Ibex (24), IPL Raksha (37), Krilaxyl (41), Krilaxyl MZ 72% WP (41), Magic (67), Master (52), Matco 8-64 (35), Racil (17), Ridomil MZ (64), Ridox (23), Role Star (51), Srilaxyl (38), Super Mo (5), Unilax (66) and Vintage (33)	2 g/Litre of water
Copper oxy chloride 50% WP	Blitox (52)	2-2.5g/Litre of water

NOTE: Serial number in parenthesis corresponds to manufacturing company (see Appendix)

21. List of Fungicides effective against fruit rot diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Carbendazim 50% WP	Bavistin (11), Benfil (35), Bengard (27), Benze (67), Bystell (18), Carzim-50 (20), Dazim-50 (3), Derosal (12), Goldstin (23), IPL Carba (37), Rustone 50 (32), Sahara (36), Sahib Carb (57), Sten (22), Tristin (58) and Warrant (32)	2 g/kg of seeds (Seed Treatment), 1 g/Litre of water (Foliar spray)
Chlorothalonil 75% WP	Cluch (17), Ishaan (52), Jatayu (22), Kavach (64) and Ovate (20)	1.5 g/Litre of water
Copper Oxychloride 50% WP	Beltox (71), Blitox (52), Blue Copper (64), Blue star (5), Blue star (58), Canopy (31), COC (72), Cocxy (39), Cop Rus (32), Cop tox (4), Cuprina (50), Dhanucop (26), Fast 50 wp (46), G-Copper (29), Green coper (16), Mangala COC (45), Oxy cop 50 w (13), Riva (23), Sarathi (55), Trucop (35) and Trust (41)	2.0-2.5 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Hexaconazole 5% EC	AVONE (36), Conquire (66), Contaf (52), Corazole EC (22), Danzole (20), Gold (51), Hexacare (24), Hexacon (67), Hexcon (23), Hextop (61), Nector plus (38), Sitara (35), Stop (6) and Trigger (14)	2-3 ml/Litre of water
Hexaconazole 2% SC	AVONE+ (36), Hexaconda (58) and Samarth (52)	3 ml/Litre of water
Hexaconazole 5% SC	Chemtaf (17), Contaf Plus (52), Danzole Plus (20), Glory (15), Nector plus (38), Shree Ram Padam Plus (61) and Sitara Plus (35)	2 ml/Litre of water
Mancozeb 35% SC	Eurofil-NT (35) and Sahib - Manco (57)	2 ml//Litre of water
Mancozeb 75% WG	Crystal M-45 (25), Gold M-45 (23), Manfil WG (35), Marlett (22) and Utham M-45 (66)	2 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Mancozeb 75% WP	Chemzeb M 45 (17), Dithane M-45 (12), Dithane M45 (27), Indofil M-45 (35), Kal zeb (40), King ZEB-45 (42), LEO M-45 (36), Maharaja (58), Marlett (22), MAX 45 (2), NCP M-45 (47), New M-45 (48), Rasayan M-45 (41), Real M-45 (5), Royal M-45 (54), Shree M-45 (32), Shri Ram M-45 (62), Solar M-45 (63), Sparsh (14), Tata M-45 (52) and Uthane M 45 (66)	2 g/Litre of water
Mancozeb 63% + Carbendazim 12% WP	Acer (38), Ambuja (24), Bendaco (14), C plus M (7), Care (36), Carman (15), Champion (3), Clean up (29), CM-75 (41), Companion (35), Cozeb (1), Indhu sai-75 (60), IPL Safe (37), Kapeni (22), King saft (42), Paras (2), Riddhi (53), Saaf (66), Safer (8), Sahib Mancarb (57), Stuff (17), Trick (51) and Trimil (58)	1 g/Litre of water
Zineb 75% WP	Indofil Z-78 (35)	2 g/Litre of water
Azoxystrobin 23% SC	Amistar (64), Azogro (22), Ergon (52)	1ml/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Captan 75% WP	Captra (35), Captaf (52), Dhanutan (26)	2g/Litre of water
Difenoconazole 25% EC	Score (64)	0.5ml/Litre of water
Kitazin 48% EC	Kitazin (74)	1g/Litre of water
Tebuconazole 25.9% m/m EC	Orius (44)	1ml /Litre of water
Tebuconazole 25% WG	Folicur (12)	250-350 ml /ac
Azoxystrobin 11% + Tebuconazole-18.3% SC W/W	Custodia (Adama India)	0.93 ml/Litre of water
Captan 70%+ Hexaconazole 5% WP	Taqat (52)	2g/Litre of water
Tebuconazole 10% WP +Sulphur 65% WG	-	2.5g/Litre of water

NOTE: Serial number in parenthesis corresponds to manufacturing company (see Appendix)

22. List of Fungicides effective against root rot diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Captan 50% WP	Capital (67), Captaf (52), Captan (41), Captra (35) and Seedcap 500 (17)	Seed treatment: 2.5 g/kg (Small seeds); 5 g/kg (Large seeds)
Copper Oxychloride 50% WP	Belttox (71), Blitox (52), Blue Copper (64), Blue star (5), Blue star (58), Canopy (31), COC (72), Cocxy (39), Cop Rus (32), Cop tox (4), Cuprina (50), Dhanucop (26), Fast 50 wp (46), G-Copper (29), Green coper (16), Mangala COC (45), Oxy cop 50 w (13), Riva (23), Sarathi (55), Trucop (35) and Trust (41)	2.0-2.5 g/Litre of water
Mancozeb 35% SC	Eurofil-NT (35) and Sahib - Manco (57)	2 ml//Litre of water
Mancozeb 75% WG	Crystal M-45 (25), Gold M-45 (23), Manfil WG (35), Marlett (22) and Utham M-45 (66)	2 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Mancozeb 75% WP	Chemzeb M 45 (17), Dithane M-45 (12), Dithane M45 (27), Indofil M-45 (35), Kal zeb (40), King ZEB-45 (42), LEO M-45 (36), Maharaja (58), Marlett (22), MAX 45 (2), NCP M-45 (47), New M-45 (48), Rasayan M-45 (41), Real M-45 (5), Royal M-45 (54), Shree M-45 (32), Shri Ram M-45 (62), Solar M-45 (63), Sparsh (14), Tata M-45 (52) and Uthane M 45 (66)	2 g/Litre of water
Mancozeb 63% + Carbendazim 12% WP	Acer (38), Ambuja (24), Bendaco (14), C plus M (7), Care (36), Carman (15), Champion (3), Clean up (29), CM-75 (41), Companion (35), Cozeb (1), Indhu sai-75 (60), IPL Safe (37), Kapeni (22), King saft (42), Paras (2), Riddhi (53), Saaf (66), Safer (8), Sahib Mancarb (57), Stuff (17), Trick (51) and Trimil (58)	1 g/Litre of water
Mancozeb 50% + Carbendazim 25% WS (Dry root rot)	Sprint (35)	2.5-3 g/kg of seeds (Seed Treatment)

Chemical Name	Trade / Brand Name	Recommended Dose
Triadimefon 25% WP	Bayleton (12), Kruleton (41) & Trifen(10)	0.5-1g/Litre of water
Carboxin 37.5%+ Thiram 37.5% DS	Vitax powder (26) & Vitavax Thiram (12)	2-3g/Kg of seeds

NOTE: Serial number in parenthesis corresponds to manufacturing company (see Appendix)

23. List of Fungicides effective against fungal wilt diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Captan 50% WP	Capital (67), Captaf (52) , Captan (41), Captra (35) and Seedcap 500 (17)	Seed treatment: 2.5 g/kg (Small seeds); 5 g/kg (Large seeds)
Copper Oxychloride 50% WP	Belttox (71), Blitox (52), Blue Copper (64), Blue star (5), Blue star (58), Canopy (31), COC (72), Cocxy (39), Cop Rus (32), Cop tox (4), Cuprina (50), Dhanucop (26), Fast 50 wp (46), G-Copper (29), Green coper (16), Mangala COC (45), Oxy cop 50 w (13), Riva (23), Sarathi (55), Trucop (35) and Trust (41)	2.0-2.5 g/Litre of water
Mancozeb 35% SC	Eurofil-NT (35) and Sahib - Manco (57)	2 ml//Litre of water
Mancozeb 75% WG	Crystal M-45 (25), Gold M-45 (23), Manfil WG (35), Marlett (22) and Utham M-45 (66)	2 g/Litre of water

Chemical Name	Trade / Brand Name	Recommended Dose
Mancozeb 75% WP	Chemzeb M 45 (17), Dithane M-45 (12), Dithane M45 (27), Indofil M-45 (35), Kal zeb (40), King ZEB-45 (42), LEO M-45 (36), Maharaja (58), Marlett (22), MAX 45 (2), NCP M-45 (47), New M-45 (48), Rasayan M-45 (41), Real M-45 (5), Royal M-45 (54), Shree M-45 (32), Shri Ram M-45 (62), Solar M-45 (63), Sparsh (14), Tata M-45 (52) and Uthane M 45 (66)	2 g/Litre of water
Mancozeb 63% + Carbendazim 12% WP	Acer (38), Ambuja (24), Bendaco (14), C plus M (7), Care (36), Carman (15), Champion (3), Clean up (29), CM-75 (41), Companion (35), Cozeb (1), Indhu sai-75 (60), IPL Safe (37), Kapeni (22), King saft (42), Paras (2), Riddhi (53), Saaf (66), Safer (8), Sahib Mancarb (57), Stuff (17), Trick (51) and Trimil (58)	1 g/Litre of water
Mancozeb 50% + Carbendazim 25% WS (Dry root rot)	Sprint (35)	2.5-3 g/kg of seeds (Seed Treatment)
Myclobutanil 10% WP	Boon (35), Cygnet (14) and ISIS (70)	1 g/Litre of water

NOTE: Serial number in parenthesis corresponds to manufacturing company (see Appendix)

24. List of Fungicides effective against Bacterial wilt / Bacterial diseases diseases

Chemical Name	Trade / Brand Name	Recommended Dose
Streptocycline (0.05%) + Copper oxychloride (0.2%)(COC)		0.50 g Streptocycline + 2.50 g Copper oxychloride (COC) / Litre of water

Numbers in the Parenthesis are Referring to the Manufacturing Companies of Different Fungicides;
For Details Refer Annexure-I

Disclaimer

The information provided here in supplied with the understanding that no discrimination is inteded and no endorsement by the UAS, Bangalore is implied. The authors have assembled the most reliable information at the time of publication

Annexure I

Sl. No.	Manufacturing Company Name and Address	Sl. No.	Manufacturing Company Name and Address
1	Aastro Agritech India Private Limited, H.NO.6-3-349/14, Hindinagar Colony Panjagutta, Hyderabad - 500082, Telangana, India	5	Ankita Organic Private Limited, 454, 1st Floor, Nehru Ground, NIT, Faridabad - 121001, Haryana, India
2	Advance Nath Agri Chemicals Private Limited 3/2, NEW Palasia, Old Palasia, Indore - 452001, Madhya Pradesh, India	6	Anmol Agrotech Industries, Plot No.239, G.I.D.C, PH-II, Dediyaan, Mehsana - 384002, Gujarat, India
3	Agro Care D-11 & 12, Udyog Puram,Parta Pur, Delhi Road, Meerut - 250103, Uttar Pradesh, India	7	Aristo Biotech And Life Science Private Limited E-26, GIDC Estate, Manjusar, Taluka Savli, Vadodara, Gujarat - 391775
4	Amico Pesticides Limited, Akhand Jyoti, 8th road, Santacruz (East), Mumbai-400055, India	8	Ashok Pesticides, Swami Sadan Building, Opp. Khanderao Market, Rajmahal Road, Vadodara - 390001, Gujarat, India

Sl. No.	Manufacturing Company Name and Address	Sl. No.	Manufacturing Company Name and Address
9	Atul Limited, Atul-396020, Gujarat, India	13	Bharth Agrochem Industries, 75/B, Mahatma Gandhi Road, Kolkata - 700009, West Bengal, India
10	Bonageri Crop Science Private Limited, 12/1 , Shivakrupa Complex, Neeligin Road, Hubli - 580 029, Karnataka, India	14	"Biostadt India Limited Poonam Chambers, 'A' Wing, 6th Floor, Dr. A. B. Road, Worli,Mumbai - 400 018, India"
11	"BASF India Limited Phase II, Thane Belapur RoadTurbhe, Navi Mumbai - 400 705 Maharashtra, India"	15	Canary Agro Chemicals Private Limited, No. 7, Shopping Center, 3rd Floor, Karampura, Behind Milan Cinema Delhi - 110015, India
12	"Bayer Crop Science Limited Ohris Tech Park, Plot No:13, Survey No. P 64/2 Software Units Layout, VBIT Park Road, Madhapur, Hyderabad - 500 081, India"	16	Chaitanya Agro Chemicals, Plot No. 50, Uma Estate, Behind Bhagyodaya Hotel, Vasna - Iyava, Virangam Highway, Taluka Sanand Ahmedabad - 382110, Gujarat, India

Sl. No.	Manufacturing Company Name and Address	Sl. No.	Manufacturing Company Name and Address
17	"Chemet Chemicals Private Limited, D / 63 , Silver Arc Bldg. Nr. Gujarat Rly. Crossing, Ellisebridge, Ahmedabad - 380006, Gujarat, India"	21	"Chemtura Chemical India Private Limited, C-6,7-8, UPSIDC Industrial Area, JP Nagar, Gajraula - 244 235Uttar Pradesh, India"
18	Chemet Crop Science Private Limited, Hardik Trivedi 202, Adit Raj Complex, Opp. Titanium City Center, Near Hetvee Tower, Anand Nagar Road, Satellite, Ahmedabad - 380015, Gujarat, India	22	Coromandel International Limited, Coromandel House, Sardar Patel Road, Secunderabad 500 003, Telangana, India.
19	Chemical Agrosava, Palmira Toljatija 5/IV - 11070, New Belgrade	23	"Crop Chemicals India Limited, 401-B, 4th Floor, Usha Kiran Building Azadpur Commerical Complex, New Delhi-110033"
20	"Cheminova India Limited, Keshava, 7th Floor, Bandra-Kurla Complex Bandra East, Mumbai - 400051 Maharashtra, India"	24	Crop Life Science Limited, 209, "PRIMATE", Nr. Judges Bungalow Cross Road, Bodakdev, Ahmedabad -380 015, Gujarat, India

Sl. No.	Manufacturing Company Name and Address	Sl. No.	Manufacturing Company Name and Address
25	"Crystal Crop Protection Private Limited, B-95, Wazirpur, Industrial Area, Wazirpur, Delhi-110052, India"	29	Gayatri Pesticides Private Limited, Plot No. D 54/1, MIDC, Avadhan, Dhule - 424005, Maharashtra, India
26	"Dhanuka Agritech Limited, 14th Floor, Building 5A, DLF Cyber Terrace, Cyber City, DLF Phase III Gurgaon- 122002, Haryana, India"	30	"FIL Industries Limited Kohinoor House 7/1, Sheikh Bagh Srinagar, Jammu & Kashmir"
27	"Dow AgroSciences India Private Limited, 1st floor, Block B, Gate 02, Godrej IT Park, Godrej Business District Pirojshanagar, L.B.S Marg, Vikhroli (West) Mumbai – 400079, India"	31	Greencrop International Private Limited, Sharad Sawant (CEO), 205/206, Vasudha Equinox 2nd Floor, Pune-mumbai Old Highway, Near Khadki Railway Station, Bopodi, Pune - 411003, Maharashtra, India
28	E.I. DuPont India Private Limited, 7th Floor, Tower C, DLF Cyber Greens, Sector-25A, DLF City, Phase III, Gurgaon - 122002, Haryana, India	32	Gujarat Pesticides Private Limited, Kalol - 382721, Gujarat, India

Sl. No.	Manufacturing Company Name and Address	Sl. No.	Manufacturing Company Name and Address
33	"Heranba Industries Ltd.101/102, Kanchanganga, Factory Lane, Borivali (W),Mumbai - 400092, India"	37	"IPL Overseas, Near Bhavans Prominent School, Nipania Road, KankadIndore - 452001 Madhya Pradesh, India"
34	HPM Chemicals and Fertilizers Limited, 209-210, Anupam Bhawan, Azadpur Commercial Complex Azadpur, Delhi-110033	38	"Jai Shree Rasayan Udyog Limited, 501, Gopal Heights, Netaji Subhash Place, New Delhi : 110034, India"
35	"Indofil Industries LimitedKalpataru Square – 4th floor, Kondivita Rd., Off Andheri Kurla Road, Andheri – East, Mumbai- 400 059, Maharashtra, India."	39	"K.P.R. Agrochem Limited, Dr No 8-256, Tata Nagar, Balabhadrapuram 533343 East Godavari District, AP, India"
36	"Insecticides (India) Limited, No. 401- 402, Lusa Tower, Azadpur Commercial Complex Delhi - 110033Delhi, India"	40	Kalyani Industries Private Limited, Plot No.1664, GIDC, AT Sarigam, Tal Umargaon, District Valsad, Umargam (India) - 396155

Sl. No.	Manufacturing Company Name and Address	Sl. No.	Manufacturing Company Name and Address
41	Krishi Rasayan Group, Block A-11, 4th Floor, FMC Fortuna, 234/3-A, A.J.C.Bose Road, Kolkata-700 020 (India)	45	Mangalore Chemicals and Fertilizers Limited (MCF), Level-11, UB Towers, UB City No.24, Vittal Mallya Road, Bangalore - 560 001
42	"Krushi Crop Science, B-15, Highway Estate, Opp. Kiran Motors, Sarkhej-Sanand Highway, Ahmedabad-382 210Gujarat,India."	46	Modern Insecticides Limited, 2nd Floor, Kesar Complex, Near Malhar Cinema, Gurdev Nagar, Ludhiana
43	"Lentus India Private Limited, 4th floor, Vedwati Appartment, Shivaji Nagar, Pune, Maharashtra, INDIA - 411005"	47	"National Pesticides & ChemicalsJaffarji Gin Compound Cotton Market Road Amravati – 444602Maharashtra – India "
44	"Makhteshmi-Agan India Private Limited, No. 734, Block - P, New Alipore, Kolkata - 700053West Bengal, India"	48	"Neha Agro IndustriesChirag Gandhi (Proprietor) 65, Dada Estate, Nr. Bhavani Motors, Sanand-Sarkhej Chokdi, Sarkhej Ahmedabad - 382210, Gujarat, India"

Sl. No.	Manufacturing Company Name and Address	Sl. No.	Manufacturing Company Name and Address
49	Parijat Industries India Private Limited, M-77, I & II Floor, M Block Market, Greater Kailash- II, New Delhi- 110048	53	Riddhi Speciality Chemicals, Plot No. 608, 1st Phase, GIDC, District Bharuch, Panoli - 393002, Gujarat , India
50	"PI Industries Limited, 5th floor, Vipul Square,B Block, Sushant Lok, Phase - 1, Gurgaon-122009."	54	"Royal Crop Science (India), 98-A, I.T Scheme No-24, NSM, Sanoli Road, Panipat - 132103, Haryana, India"
51	"Rahul Organic Limited, No. 52/54, Babu Bhavan, V. V. Chandan Street, Mumbai - 400003, Maharashtra, India"	55	Rph Crop Science Private Limited, Plot No. 1138, Road 1- C, Kishan Gate, Kalawad Road, GIDC, Metoda Rajkot - 360021, Gujarat, India
52	Rallis India Limited, 156/157, 15th Floor, Nariman Bhavan, 227, Nariman Point, Mumbai 400 021	56	Sachin Chemical Udyog, 1414/2, Gali Chuleh Wali, Sadar Bazar, Delhi - 110006, India

Sl. No.	Manufacturing Company Name and Address	Sl. No.	Manufacturing Company Name and Address
57	Sahib Pesticides, SCF-11, First Floor, New subji Mandi, Karnal - 132001, Haryana, India	61	"Shree Ram Crop Science, SCO 10, Pipli Road, Opposite Sector-7, Kurukshetra - 136118 Haryana, India"
58	Sai Ram Agritech Private Limited, Ist Floor, Lehra Bazar , Rampura Phul (Bathinda)	62	Shri Ram Agro Chemicals, Simbal Road, Near I. T. I, Tohana - 125120, Haryana, India
59	"Shanmukha Agritech Limited, No. 7-1-621/98, Opposite Axis Bank, S. R. Nagar, Main RoadHyderabad - 500038 Telangana, India"	63	"Solar Crop Science, Plot no G/1092, Road 1-C,Kishan Gate, Lodhika GIDC, Kalawad Road,Matoda,Dist - Rajkot, Gujarat, India."
60	"Shanti BiotechMCH 5-9-30/5/A, Paigha Plaza, Basheerbagh Hyderabad - 500029, Telangana, India"	64	"Syngenta India LtdAmar paragigam, Sr no. 110/11/3,Banner Road, Near Sadanand Hotel, Pune-411045, Maharashtra, India"

Sl. No.	Manufacturing Company Name and Address	Sl. No.	Manufacturing Company Name and Address
65	Super Agro India Private Limited, 168/2, Lenin Sarani, Kolkata-700 013	69	Volkschem Crop Science, 16,M.D. Chambers, Nr Relief Hotel, Sarkhej-Sanand Road Sarkhej, Ahmedabad. (Gujarat)
66	"United Phosphorus Limited (UPL) Limited, Uniphos House, Madhu Park, 11th Road, Chitrakar Dhurandar Marg, Khar (West), Mumbai 400 052"	70	Willowood Chemical Private Limited, No. 503, 5th Floor, Salcon Aurum, District Centre, Jasola, New Delhi - 110025, Delhi, India
67	"Vijay Agro IndustriesJadhav Chintaman (Proprietor)Gut No. 215, Post Kasbe Sukene, Taluka- Niphad Nashik - 422302, Maharashtra, India"	71	"Yesell Industries, No. 231, Skc Road, Erode - 638009Tamil Nadu, India"
68	"Vimal Crop Care Private Limited, Plot No 98 National High way No 8, Village Limbadia, Dist. Gandhinagar Gujarat (INDIA) 382 330"	72	"Yogi Crop Sciences Private Limited, No. 301, Magnum House-1, Karampura Communication Complex New Delhi - 110 015Delhi, India"

Sl. No.	Manufacturing Company Name and Address	Sl. No.	Manufacturing Company Name and Address
73	Sudershan Chemical Industries Ltd, Global Head Office, 162 Wellesley Road, Pune-411001.	75	Excel Crop Care Limited, #184/87, S.V.Road, Jageshwari West, Mumbai-400102
74	PI Industries Ltd, #38/1, Cross West Park Road, Malleshwarm, Bangalore-560003		



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