

Useful and Poisonous Tea Weeds

Man living as far back as in *vedic* period realized that no plant is useless. The plant once regarded as one useless weed, proved to be a wonder species in many times in the history of science. Even then it is important to recognize the plants those we need to use to satisfy our immediate needs and/or the usefulness of those plants already known to us. On the other hand, there are many plants, the poisonous actions of which cause our concern.

All the plants growing in Tea Gardens as weeds can not be useless. Ethnobotanically useful plants of this flora will be discussed in the next chapter. The present section of the dissertation will deal with the useful and poisonous plants in general.

12.1 Useful Plants

In fact, quite a large number of weeds and other plants growing in Tea Garden areas are useful in different ways. But only some commonly useful plants has been presented here (Table 12.1). A good number of references are available on the useful plants in India, which include Biswas & Chopra (1956), Chopra *et al* (1956), Krishna & Das (1983), Bhujel *et al* (1984 a,c), Das & Chanda (1990) and Pal (1999).

Table 12.1: Useful plants growing in Tea Gardens in Darjiling Hills and Terai.

[**Abbreviations used:** G = Gungaram T.E., H = Hansqua T.E., K = Kamalpur T.E., M = Matigara T.E., Mo = Mohurgong & Gulma T.E., Mk = Makaibari T.E., S = Soom T.E., T = Tamsong T.E.]

Sl. No.	Name of plants	Common name	Gardens where recorded	Useful Parts	Uses
1	<i>Acacia catechu</i> [Mimosaceae]	Khair	G, H, M	Gum	Commercial, medicinal

2	<i>Aconogonum molle</i> [Polygonaceae]	Thotne	S, T	Young stem	Edible
3	<i>Adiantum capillus-veneris</i> [Adiantaceae]	Fern	G, H, K, M, Mo, Mk, S, T	Whole plant	Ornamental
4	<i>Adiantum philippense</i> [Adiantaceae]	Fern	G, H, K, M, Mo, Mk, S, T	Whole plant	Ornamental
5.	<i>Aegle marmelos</i> [Rutaceae]	Bael, Bel	G, H, K, M, Mo	Ripe Fr	Raw
6	<i>Albizia lebbeck</i> [Mimosaceae]	Sirish	G, H, K, M, Mo	Trunk	Timber
7	<i>Alnus nepalensis</i> [Betulaceae]	Utis	S, T	Trunk	Timber
8	<i>Alocasia macrorrhiza</i> [Araceae]	Man-kachu	G, H, Mo	Stem	Edible
9	<i>Alstonia scholaris</i> [Apocynaceae]	Chhatian	G, H, K, M	Bark, whole plant	Medicinal, Ornamental
10	<i>Andrographis paniculata</i> [Acanthaceae]	Kalomegh	G, H, Mo	Whole plant	Medicinal
11	<i>Angiopteris crassipes</i> [Marattiaceae]		Mo, Mk	Root-stock, root	Medicinal, Perfumery
12	<i>Annona reticulata</i> [Annonaceae]	Nona	G, H, K, M, Mo	Ripe fruit, leaves	Edible, medicinal, fodder
13	<i>Annona squamosa</i> [Annonaceae]	Ata	G, H, K, M, Mo	Ripe fruits, leaves	Edible, medicinal, fodder
14	<i>Areca catechu</i> [Arecaceae]	Supari, Gua	H, K, Mk	Fruits	Commercial, medicinal
15	<i>Artemisia indica</i> [Asteraceae]	Nak-nisinda	Mk, S, T	Leaf, shoot	Medicinal, repellent, religious
16	<i>Artocarpus heterophyllus</i> [Moraceae]	Kathar, Kanthal	G, H, K, M, Mo	Lf, Fr, Sd	Edible
17	<i>Asplenium filix-femina</i> [Aspleniaceae]		G, H, K, M, Mo, Mk, S, T	Rhizome	Medicinal, ornamental
18	<i>Averrhoa carambola</i> [Averrhoaceae]	Kamranga	H, K	Fruit	Edible
19	<i>Bauhinia purpurea</i> [Caesalpinaceae]	Tanki	G, H, K, M, Mo, Mk, S, T	Grown plant	Ornamental, edible
20	<i>Betula alnoides</i> [Betulaceae]	Sour	S, T	Trunk	Timber
21	<i>Blechnum orientale</i> [Blechnaceae]		G, H, K, M, Mo, Mk, S, T	Rhizome	Edible, Medicinal
22	<i>Blumea lacera</i> [Asteraceae]		G, H, K, M, Mo,	Leaf	Medicinal, aromatic oil
23	<i>Boehmeria hamiltoniana</i> [Urticaceae]		Mk, S, T	Leaf	Fodder
24	<i>Boerhavia coccinea</i> [Nyctaginaceae]	Punarnova	G, H, M, Mo	Whole plant	Medicinal, edible
25	<i>Bombax ceiba</i> [Bombacaceae]	Simal	G, H, K, M, Mo	Gum, Fl	Commercial, floss
26	<i>Brassica campestris</i> [Brassicaceae]	Sarisa	G, H, K, M, Mo, Mk, S, T	Lf, Sd	Edible

27	<i>Brassica juncea</i> [Brassicaceae]	Rye saag	G, H, K, M, Mo	Yng Sht	Edible
28	<i>Cajanus cajan</i> [Fabaceae]	Arhar	G, H, K, M, Mo	Sd	Edible
29	<i>Caesampelos periera</i> [Menispermaceae]		G, H, Mo	Root-stock	Medicinal
30	<i>Camellia sinensis</i> [Theaceae]	Chia, Chha	G, H, K, M, Mo	Fl, Lf	Beverage
31	<i>Cannabis sativa</i> [Cannabaceae]	Ganja, Vang	G, H, K, M, Mo, Mk, S, T	Leaf, flower	Narcotic, medicinal
32	<i>Cassia fistula</i> [Caesalpiniaceae]	Sonalu, badarlathi	G, H, K, M, Mo, Mk, S, T	Rt, Lf, bud, Fr pulp	Ornamental, medicinal
33	<i>Catharanthus roseus</i> [Apocynaceae]	Nayantara	G, H, K, M, Mo	Lf, Fl	Ornamental, medicinal
34	<i>Centella asiatica</i> [Apiaceae]	Thankuni	G, H, K, M, Mo, Mk, S, T	Leaf	Edible, Medicinal
35	<i>Ceratopteris thalictroides</i> [Parkeriaceae]		G, H	Fronds	Edible, Medicinal
36	<i>Chenopodium album</i> [Chenopodiaceae]	Bhatua saag	G, H, K, M, Mo	Yng Sht	Edible
37	<i>Cinnamomum tamala</i> [Lauraceae]	Tejpat	G, H, K, M, Mo, Mk, S, T	Lf	Spice
38	<i>Clerodendrum indicum</i> [Verbenaceae]	Vant	G, H, K, M, Mo	Grown plant	Ornamental, medicinal
39	<i>Colocasia esculenta</i> [Araceae]	Kachu	G, H, K, M, Mo	Rhizome, petiole	Edible
40	<i>Crinum amoenum</i> [Amaryllidaceae]		K, M, Mo	Grown plant	Ornamental
41	<i>Cryptomeria japonica</i> [Taxodiaceae]	Dhupi	S, T	Trunk	Timber
42	<i>Curcuma longa</i> [Zingiberaceae]	Haldi	G, H, K, M, Mo, Mk, S, T	Rhz	Spice
43	<i>Cymbopogon nardus</i> [Poaceae]	Citronella ghash	G, H, K, M, Mo	Lf	Aromatic oil
44	<i>Cynodon dactylon</i> [Poaceae]	Durba ghash	G, H, K, M, Mo, Mk	Shoot	Worship, ornamental, fodder
45	<i>Dicranopteris linearis</i> [Gleicheniaceae]		G, H, K, M, Mo, Mk, S, T	Rhizome, Fronds	Medicinal, basketry
46	<i>Dioscorea bulbifera</i> [Dioscoreaceae]	Chupri alu, Bontarul	G, H, K, M, Mo, Mk, S, T	Root-stock	Edible
47	<i>Diplazium esculentum</i> [Athyriaceae]	Dhenki Saag	G, H, K, M, Mo	Young frond	Green vegetable
48	<i>Drymeria diandra</i> [Caryophyllaceae]	Abijalo	G, H, K, M, Mo, Mk, S, T	Shoot	Medicinal
49	<i>Dryopteris filix-mas</i> [Dryopteridaceae]		G, H, K, M, Mo,	Young frond, root	Edible, Medicinal

			Mk, S, T		
50	<i>Eryngium foetidum</i> [Apiaceae]	Bilati Dhania	G, H, K, M, Mo, Mk, S, T	Lf	Spice
51	<i>Euphorbia hirta</i> [Euphorbiaceae]	Pushi dudh	G, H, K, M	Shoot	Medicinal
52	<i>Ficus hispida</i> [Moraceae]	Dumur	H, K, Mo	Figs	Edible
53	<i>Girardinia diversifolia</i> [Urticaceae]	Vangre Sishnu	Mk, S, T	Stem	Bow-string, fibre
54	<i>Glinus oppositifolius</i> [Molluginaceae]	Gima	G, H, K, M, Mo	Shoot	Edible
55	<i>Gmelina arborea</i> [Verbenaceae]	Gamar	G, H, K, M, Mo	Trunk	Timber
56	<i>Holarrhena pubescens</i> [Apocynaceae]	Khirra	G, H, K, M, Mo, Mk, S, T	Bk	Medicinal
57	<i>Imperata cylindrica</i> [Poaceae]	Kush, Thatch	G, H, K, M, Mo, Mk	Leaf	Rope, thatch
58	<i>Ipomoea batatas</i> [Convolvulaceae]	Misti Alu, Ranga Alu	G, H, K, M, Mo, Mk, S, T	Tubers, Yng Tg	Edible
59	<i>Ipomoea quamoclit</i> [Convolvulaceae]	Labanga Lata	M, Mo, Mk	Grown plant	Ornamental
60	<i>Jatropha curcas</i> [Euphorbiaceae]	Swet Bharenda	G, H, K, M	Seeds, grown plant	Oil, hedge
61	<i>Justicia adhatoda</i> [Acanthaceae]	Basak	G, H, M, Mo, Mk	Leaf, whole plant	Medicinal, hedge
62	<i>Lycopersicon esculentum</i> [Solanaceae]	Tomatom, Tomator	G, H, K, M, Mo	Lf, Fr	Edible
63	<i>Lycopodiella cernua</i> [Lycopodiaceae]		M, Mo, Mk, S, T	Shoot	Medicinal
64	<i>Lycopodium pseudoclavatum</i> [Lycopodiaceae]		S, T	Spore, Shoot	Science experiment, Medicinal
65	<i>Lygodium microphyllum</i> [Lygodiaceae]		G, H, K, M, Mk	Root-stock	Medicinal
66	<i>Lygodium salicifolium</i> [Lygodiaceae]		G, H, K, M, Mk	Root-stock	Medicinal
67	<i>Magnolia campbellii</i> [Magnoliaceae]	Chanp	S, T	Trunk	Timber, ornamental
68	<i>Mallotus philippensis</i> [Euphorbiaceae]	Sindure	G, M, Mo, Mk	Seeds	Dye, fodder
69	<i>Mangifera indica</i> [Anacardiaceae]	Aam	G, H, K, M, Mo	Ripe/ green Fr	Edible; fodder
70	<i>Manihot esculenta</i> [Euphorbiaceae]	Simul-tarul	G, H, K, M, Mo, Mk, S, T	Tuberous Rt	Edible
71	<i>Maranta arundinacea</i> [Marantaceae]	Arrowroot	G, H, K, M, Mo, Mk, S, T	Rhz	Edible, ornamental, medicinal
72	<i>Melia azadirach</i> [Meliaceae]	Ghora Neem	G, H, K, M, Mo, Mk	Grown plant	Ornamental, biomass
73	<i>Mentha piperata</i> [Lamiaceae]	Pudina	G, H, K, M, Mo,	WP, Lf	Edible

			Mk, S, T		
74	<i>Mesua ferrea</i> [Clusiaceae]	Nageswar, Nagkesor	G, H, K, M, Mo	Whole plant	Timber, medicinal, ornamental
75	<i>Michelia champaca</i> [Magnoliaceae]	Chanp	G, H, K, M, Mo, Mk, S, T	Whole plant	Timber, medicinal, ornamental
76	<i>Michelia doltsopa</i> [Magnoliaceae]	Rani Chanp	G, H, K, M, Mo, Mk, S, T	Trunk	Timber
77	<i>Momordica charantia</i> [Cucurbitaceae]	Karela	G, H, K, M, Mo	Lf, Fr	Edible
78	<i>Momordica dioica</i> [Cucurbitaceae]	Chetheli	G, H, K, M, Mo	Leafy Tg, Fr	Edible
79	<i>Moringa oleifera</i> [Moringaceae]	Sagna	G, H, K, M, Mo	Lf, Fl, Fr	Edible
80	<i>Morus alba</i> [Moraceae]	Tunt	G, H, K, M, Mo	Ripe Fr	Edible
81	<i>Mucuna pruriens</i> [Fabaceae]	Aalkusi	G, H, K, M	Seed	Medicinal
82	<i>Murraya koenigii</i> [Rutaceae]	Karipata	G, H, K, Mo, Mk, T	Leaf	Aromatic for food
83	<i>Murraya paniculata</i> [Rutaceae]	Kamini	G, H, K, M, Mo	Whole plant	Ornamental, medicinal
84	<i>Musa bulbisiana</i> [Musaceae]	Kala	G, H, K, M, Mo, Mk, S, T	Green & ripe Fr	Edible
85	<i>Nasturtium officinale</i> [Brassicaceae]	Simraya	Mk, S, T	Young Shoot	Edible
86	<i>Neolamarckia cadamba</i> [Rubiaceae]	Kadam	G, H, K, M, Mo	Trunk, Ripe fruits	Timber, edible
87	<i>Nephrolepis auriculata</i> [Nephrolepidaceae]		Mk, S, T	Whole plant, root-tuber	Ornamental, edible, medicinal
88	<i>Nyctanthes arbor-tristis</i> [Verbenaceae]	Sefali	G, H, K, M, Mo, Mk, S, T	Whole plant	Ornamental, medicinal
89	<i>Oryza sativa</i> [Poaceae]	Chaule, Chawor	G, H, K, M, Mo	Grains, straw	Edible, fodder, insulator, oil
90	<i>Pedilanthus tithymeloides</i> [Euphorbiaceae]	Rangchita, Belati-sij	G, H, K, M, Mo, Mk, S, T	Whole plant	Ornamental, medicinal
91	<i>Paederia foetida</i> [Rubiaceae]	Gandal	G, H, Mo, Mk, S	Leaf	Edible, Medicinal
92	<i>Phoebe attenuata</i> [Lauraceae]		Mk, T	Trunk	Timber
93	<i>Phyllanthus amarus</i> [Euphorbiaceae]		G, H, K, M	Whole plant	Medicinal
94	<i>Phyllanthus emblica</i> [Euphorbiaceae]	Amloki	G, H, K, Mo, Mk	Fruits	Medicinal, edible
95	<i>Pinus roxburghii</i> [Pinaceae]	Pine	Mk, S, T	Trunk	Timber, resin
96	<i>Piper betle</i> [Piperaceae]	Paan	G, H, K, M, Mo, Mk, S, T	Leaf	Edible, medicinal
97	<i>Piper longum</i> [Piperaceae]	Pipla	G, H, K, M, Mo, Mk, S, T	Infructe-scens	Spice, medicinal

98	<i>Piper mullesua</i> [Piperaceae]	Jangli Paan	G, H, Mo, Mk	Fruits	Medicinal
99	<i>Piper nigrum</i> [Piperaceae]	Gol marich	G, H, K, M, Mo, Mk, S, T	Fr	Spice, medicinal
100	<i>Piper peepuloides</i> [Piperaceae]	Rukh pipla	G, H, K, M, Mo, Mk, S, T	Ripe Fr	Spice, medicinal
101	<i>Pityrograma calomelanos</i> [Hemionytidaceae]		G, H, K, M, Mo, Mk, S, T	FronDS, Rhizome	Medicinal
102	<i>Plumbago zeylanica</i> [Plumbaginaceae]	Chetoar, Chitawar, Chita	G, H, K, M, Mo	Whole plant	Ornamental, medicinal
103	<i>Pongamia pinnata</i> [Fabaceae]	Karanj	G, H, K, M, Mo	Rt, Bk, Sd, oil	Medicinal
104	<i>Prunus cerasoides</i> [Rosaceae]		S, T	Grown tree	Ornamental, walking stick
105	<i>Psidium guajava</i> [Myrtaceae]	Ambak, Amrud	G, H, K, M, Mo	Fr	Edible
106	<i>Pteridium aquilinum</i> [Pteridiaceae]		G, H, K, M, Mo, Mk, S, T	Rhizome	Edible, Medicinal
107	<i>Punica granatum</i> [Punicaceae]	Dalim, Bedana	G, H, K, M, Mo, Mk, S, T	Rt, fruit	Edible, medicinal
108	<i>Rauvolfia serpentina</i> [Apocynaceae]	Sarpagandha, Nagbeli	G, H, K, M, Mo	Rt	Medicinal
109	<i>Ricinus communis</i> [Euphorbiaceae]	Rehrhi	G, H, K, M, Mk, T	Seeds, inflorescence	Oil, edible
110	<i>Rubia mantith</i> [Rubiaceae]	Manjistha, Majito	Mk, S, T	Root, stem	Dye, medicinal
111	<i>Rubus ellipticus</i> [Rosaceae]		Mk, S, T	Fruits	Edible
112	<i>Saccharum officinarum</i> [Poaceae]	Ikh, Ukhu	G, H, K, M, Mo	St	Edible
113	<i>Saccharum officinarum</i> [Poaceae]	Ikh, Ukhu	G, H, K, M, Mo	St	Commercial, edible, medicinal
114	<i>Saraca asoca</i> [Caesalpinaceae]	Ashoke	G, H, K, M, Mo, Mk, S, T	Whole plant	Ornamental, medicinal
115	<i>Schima wallichii</i> [Theaceae]	Chilaune	Mk, S, T	Trunk	Timber, Fuel
116	<i>Scoparia dulcis</i> [Scrophulariaceae]	Petberela	G, H, K, M, Mo	Leaf	Medicinal
117	<i>Selaginella bisulcata</i> [Selaginellaceae]		G, H, K, M, Mo, Mk, S, T	Grown plant	Ornamental
118	<i>Setaria palmifolia</i> [Poaceae]		G, H, K, M, Mo, Mk, S, T	Whole plant	Fodder
119	<i>Shorea robusta</i> [Dipterocarpaceae]	Sal	G, H, K, M, Mo, Mk, S, T	Whole plant	Timber, cottage industry, medicinal
120	<i>Sida acuta</i> [Mavaceae]	Berela	G, H, K, M, Mo	Root, whole plant	Medicinal, broom

121	<i>Sida rhombifolia</i> [Mavaceae]		G, H, K, M	Stem	Fibre
122	<i>Smilax ovalifolia</i> [Smilacaceae]	Kukurdaini, Kumarika	H, K, M, Mk	Root	Medicinal
123	<i>Solanum torvum</i> [Solanaceae]	Pako Saag	G, H, K, M	Fruits	Medicinal
124	<i>Syzygium cumini</i> [Myrtaceae]	Jamuna	G, H, K, M, Mo, Mk, S, T	Bk, Fr, Sd	Edible, medicinal
125	<i>Tamarindus indica</i> [Caesalpinaceae]	Tentul	G, H, K, M, Mo, Mk, S, T	Lf, Fr	Edible, medicinal
126	<i>Trichosanthes dioica</i> [Cucurbitaceae]	Patuka, Patal	G, H, K, M, Mo, Mk, S, T	Lf, Fr	Edible
127	<i>Tectaria coadunata</i> [Tectariaceae]		G, H, M, Mo, Mk	Fronds	Edible, Medicinal
128	<i>Tectona grandis</i> [Verbenaceae]	Segun	G, H, K, M, Mo, Mk, S, T	Whole plant	Timber, medicinal
129	<i>Terminalia chebula</i> [Combretaceae]	Haritaki, Harrah	G, H	Fruits	Medicinal, mastigatory
130	<i>Terminalia myriocarpa</i> [Combretaceae]	Panisaj	H, K, Mo	Trunk	Timber
131	<i>Thysanolenia latifolia</i> [Poaceae]	Jhrhu	Mo, Mk, S, T	Leaf	Fodder
132	<i>Tsuga dumosa</i> [Pinaceae]		S	Trunk	Timber, ornamental
133	<i>Typhonium trilobatum</i> [Araceae]	Kharkon	G, H, K, M	Leaf	Edible
134	<i>Urena lobata</i> [Malvaceae]		G, H, M, Mk	Stem	Fibre
135	<i>Urtica dioica</i> [Urticaceae]	Sishnu	Mk, S, T	Young Shoot	Edible
136	<i>Vitex negundo</i> [Verbenaceae]	Nishinda	G, H, M	Leaf	Medicinal
137	<i>Zingiber officinalis</i> [Zingiberaceae]	Ada	G, H, K, M, Mo, Mk, S, T	Rhz	Spice, medicinal

12.2 Poisonous Plants

A plant may be poisonous through the activities of its different parts. Leaf/ stem/ underground parts/ hairs/ flowers/ fruits/ seeds/ latex etc. A poisonous plant may also be a desirable plants as the poisonous chemical ingredients might be useful in medicine. There are few publications on the poisonous plants in India, which include Atkinson (1954), Biswas & Chopra (1956), Chopra *et al* (1965), Bhujel *et al* (1984b), and Basu (1990). In addition, a beautiful guide book by Lucia Woodward (1985) also has been consulted for the purpose. Table 12.2 presented a list of poisonous plants recorded from the Tea Garden areas in hills and Terai of Darjiling.

Table 12.2: Poisonous plants growing in Tea Gardens in Darjiling Hills and Terai.

[**Abbreviations used:** G = Gungaram T.E., H = Hansqua T.E., K = Kamalpur T.E., M = Matigara T.E., Mo = Mohurgong & Gulma T.E., Mk = Makaibari T.E., S = Soom T.E., T = Tamsong T.E.]

Sl. No.	Name of plants	Common name	Gardens where recorded	Parts	Symptoms
01	<i>Alstonia scholaris</i> [Apocynaceae]	Chhatiwan	G, H, K, M, Mo, Mk, S, T	Latex, pollen	Toxic, highly allergic
2.	<i>Arisaema</i> spp. [Araceae]	Saap Phul	S, T	Whole plant	Severe irritation and vomiting if consumed.
3.	<i>Artemisia dubia</i> [Asteraceae]	Titepati	Mk, S, T	Leaves & young shoots	Fish poison
4.	<i>Calotropis gigantea</i> [Asclepiadaceae]	Aank	G, H, K, Mo	Latex	Harmful on eyes
5.	<i>Cannabis sativa</i> [Cannabaceae]	Ganja, Vang	G, H, K, M, Mo, Mk, S, T	Flowers & Leaves	Euphoria and elation, then heightened senses, hallucinations, depression & comatose sleep. Die in overdose.
6.	<i>Cuscuta reflexa</i> [Cuscutaceae]	Swarnlata		Branches	Unbearable pain in the upper abdomen in consumed.
7.	<i>Datura stramonium</i> [Solanaceae]	Sweto Dhutra	G, H, K, M, Mo, Mk, S, T	Leaves, Fruits & Seeds	Unquenchable thirst, vomiting, enlarged pupils, delirium, jumbled speech, nervous twitches and convulsions; death in overdose.
8.	<i>Datura suaveolens</i> [Solanaceae]	Ghantiphul, Sanaiphool	G, H, K, M, Mo, Mk, S, T	Leaves, Fruits & Seeds	Unquenchable thirst, vomiting, enlarged pupils, delirium, jumbled speech, nervous twitches and convulsions; death in overdose. Poisonous to pigs.
9.	<i>Dendrocide sinuata</i> [Urticaceae]	Moringe	G, H, K, M, Mo, Mk, S, T	Whole plant	Stings of hairs very painful; pollens also very irritating
10.	<i>Equisetum diffusum</i> [Equisetaceae]	Horsetail	G, H, K, M, Mo, Mk, S, T	Whole plant	Dangerous to horses and cattle; causes loss of condition, fast & weak heartbeat and unsteady.
11.	<i>Euphorbia royleana</i> [Euphorbiaceae]	Shionni	G, H, K, M, Mo, Mk, S, T	Milky latex	Damage eyes externally
12.	<i>Girardinia diversifolia</i> [Urticaceae]	Vangre Sishnu	G, H, K, M, Mo, Mk, S, T	Whole plant	Extremely high irritation on touch and consumption of fresh leaves.
13.	<i>Hydrangea macrophylla</i> [Saxifragaceae]	Hydrangea	G, H, K, M, Mo, Mk, S, T	Flowers, Leaves	Gastroenteritis with pain, nausea, diarrhea.
14.	<i>Hedyotis scandens</i> [Rubiaceae]	Bakhri lahara	G, H, K, M, Mo,	Whole plant	Fish poison

			Mk, S, T		
15.	<i>Holarrhena pubescens</i> [Apocynaceae]	Khirra	G, H, K, M, Mo, Mk, S, T	Young shoot	Fish poison
16.	<i>Jatropha curcas</i> [Euphorbiaceae]	Hattikane	G, H, K, M, Mo, Mk, S, T	Seeds (many)	Severe collapse
17	<i>Ipomoea purpurea</i> [Convolvulaceae]	Morning Glory	G, H, K, M, Mo, Mk, S, T	Seeds	Unpredictable psychological disturbances, including heightened perception of vision, smell and hearing, can cause permanent damage to brain and death.
18.	<i>Lantana camara</i> [Verbenaceae]	Lantana, Bon Tulsi	G, H, K, M, Mo, Mk, S, T	Fruits	Gastrointestinal pain, diarrhea, weakness, circulatory failure.
20.	<i>Laportea interrupta</i> [Urticaceae]	Bichuti	G, H, K, M, Mo, Mk, S, T	Whole plant	Extremely high irritation on touch
21.	<i>Laportea terminalis</i> [Urticaceae]	Patle Sishnu, Gharia sishnu	G, H, K, M, Mo, Mk, S, T	Whole plant	Extremely high irritation on touch and consumption of fresh leaves.
22.	<i>Lyonia ovalifolia</i> [Ericaceae]		G, H, K, M, Mo, Mk, S, T	Leaves	Deadly poisonous to cattle
23.	<i>Maesa chisia</i> [Myrsinaceae]	Bilaune	G, H, K, M, Mo, Mk, S, T	Sticks from branches	Believed that cows and goats hit with the stick they will deteriorate slowly and die. Local people avoid its shadow for this reason.
24.	<i>Manihot esculenta</i> [Euphorbiaceae]	Simal tarul	G, H, K, M, Mo, Mk, S, T	Roots & root bark	Poisonous if taken raw
25.	<i>Mikania micrantha</i> [Asteraceae]	Goal-lata	G, H, K, M, Mo, Mk, S, T	Leaves	Fish-poison
26.	<i>Mirabilis jalapa</i> [Nyctaginaceae]	Sandhyamani, Four-o'clock	G, H, K, M, Mo, Mk, S, T	Seeds & Roots	Irritates skin and mucous membrane. Gastrointestinal upsets, diarrhea.
27	<i>Momordica charantia</i> [Cucurbitaceae]	Uchchha	G, H, K, M, Mo, Mk, S, T	Fruit & Seeds	Vomiting, diarrhea.
28.	<i>Mucuna macrocarpa</i> [Fabaceae]		G, H, K, M, Mo, Mk, S, T	Hairs on calyx	Irritation on skin and mucous membrane.
29.	<i>Mucuna pruriens</i> [Fabaceae]	Aalkusi	G, H, K, M, Mo, Mk, S, T	Hairs on fruits & calyx	Severe irritation on skin and mucous membrane.
30.	<i>Neolamarckia cadamba</i> [Rubiaceae]	Kadam	G, H, K, M, Mo, Mk, S, T	Fruit	poisonous
31.	<i>Parthenium hysterophorus</i> [Asteraceae]	Parthenium	M	All aerial parts	Severe allergy, dermatitis, internal bleeding
32.	<i>Persicaria hydropiper</i>	Kusurpota,	G, H, K,	Leaves	Food and fish poisoning

	[Polygonaceae]	Sukurpota	M, Mo, Mk, S, T		
33	<i>Plumeria rubra</i> [Apocynaceae]	Rukh chuwa	G, H, K, M, Mo, Mk, S, T	Latex	Poison to eyes
34	<i>Poinsettia pulcherrima</i> [Euphorbiaceae]	Poinsettia, Lalpata	G, H, K, M, Mo, Mk, S, T	Flowers & Leaves	Sap causes blistering of skin, ingestion leads to vomiting, diarrhea, delirium.
35	<i>Pteridium aquilinum</i> [Pteridiaceae]	Bracken	G, H, K, M, Mo, Mk, S, T	All parts & Rhizome	Horses and cattle are particularly vulnerable; well known fish poison
36	<i>Ricinus communis</i> [Euphorbiaceae]	Rehri, Castor Bean	G, H, K, M, Mo, Mk, S, T	Whole plant & Seeds	Cause extremely serious allergic reactions; seeds laxative but fatal; burning of mouth and throat; diarrhea, abdominal pain, cramps, weakness, damage to liver and kidneys, hemorrhages.
37	<i>Rhus chinensis</i> [Anacardiaceae]	Bhakimlo	G, H, K, M, Mo, Mk, S, T	Whole plant	Acrid juice cause severe irruption (blisters) on skin
38	<i>Rhus succedanea</i> [Anacardiaceae]	Rani Bhalayo	G, H, K, M, Mo, Mk, S, T	Whole plant	Acrid juice cause severe irruption on skin; quite harmful
39	<i>Sambucus nigra</i> [Sambucaceae]	Elder	G, H, K, M, Mo, Mk, S, T	Leaves, Roots, Fruits, Bark	Violent purgation; nausea from raw berries; fresh leaves and berries irritate skin.
40	<i>Schima wallichii</i> [Theaceae]	Chilaune	G, H, K, M, Mo, Mk, S, T	Peeled bark	Itching effect on contact with skin
41	<i>Solanum myriacanthum</i> [Solanaceae]	Jangli Begun	G, H, K, M, Mo, Mk, S, T	Seeds	Extremely poisonous due to high solasodin content
42	<i>Solanum nigrum</i> [Solanaceae]	Pako saag	G, H, K, M, Mo, Mk, S, T	Whole plant, Fruits	Gastric pain, constipation or diarrhea; weakness, drowsiness and paralysis
43	<i>Taxus baccata</i> [Taxaceae]	Dhyengre salla	G, H, K, M, Mo, Mk, S, T	Leaves	Poisonous to live-stocks
44	<i>Tragia involucrata</i> [Euphorbiaceae]	Jal Bichuti	G, H, K, M, Mo, Mk, S, T	Whole plant	Extremely high irritation on touch
45	<i>Trichosanthes lepiniana</i> [Cucurbitaceae]	Indreni	G, H, K, M, Mo, Mk, S, T	Fruits, seeds	Nausea, vomiting, abdominal pain diarrhea
46	<i>Typhonium trilobatum</i> [Araceae]	Kharkon	G, H, K, M, Mo, Mk, S, T	Rhizome	Severe irritation of mouth, throat & stomach
47	<i>Urtica dioica</i> [Urticaceae]	Sishnu	G, H, K, M, Mo, Mk, S, T	Whole plant	Extremely high irritation on touch and consumption of fresh leaves.
48	<i>Urtica parviflora</i> [Urticaceae]	Sishnu	G, H, K, M, Mo, Mk, S, T	Whole plant	Extremely high irritation on touch and consumption of fresh leaves.

49	<i>Zanthoxylum acanthopodium</i> [Rutaceae]	Bokay timbur	G, H, K, M, Mo, Mk, S, T	Fruits	Poisonous to pigs, intoxicate fish. Excess intake leads to breathing trouble in man.
50	<i>Zanthoxylum nitidium</i> [Rutaceae]	Parpare timbur	G, H, K, M, Mo, Mk, S, T	Fruits	Poisonous to pigs

12.3 Discussion

As much as 137 plants has been recorded here as useful plants and 50 species as poisonous plants. These plants are either growing as weeds inside the bushes or in open leftover spaces within the garden territory. In addition, garden employees grow different types of vegetables, ornamentals etc in front of their residences. Hill people are very much garden loving and almost every house, small or big, grow some ornamental plants. These plants are under cultural condition and have not been incorporated in the list of useful plants.

However, the selected plants are mostly wild and are belonging to different habit groups. Uses of these plants are also very much diverse, and quite a few of those are regularly marketed like *Aconogonum molle*, *Albizia lebbeck*, *Alnus nepalensis*, *Alocasia macrorrhiza*, *Alstonia scholaris*, *Angiopteris crassipes*, *Boerhavia coccinea*, *Caesampelos periera*, *Cannabis sativa*, *Centella asiatica*, *Colocasia esculenta*, *Dioscorea bulbifera*, *Diplazium esculentum*, *Phyllanthus emblica*, *Glinus oppositifolius*, *Gmelina arborea*, *Imperata cylindrica*, *Jatropha curcas*, *Justicia adhatoda*, *Nasturtium officinale*, *Ricinus communis*, *Rubia monjith*, *Terminalia chebula*, *Terminalia myriocarpa*, *Thysanolenia latifolia*, *Typhonium trilobatum*, etc. In addition, there are many other plants those are either occasionally marketed or are sold in very low quantity. Majority of these plants are still now out of cultivation and are regularly procured from the natural habitat. If proper cultural methods can be developed many of the plants can be regular sources of income for many poor people. Again, there are some other plants those are not regularly marketed or never put into the sale but can be exploited with little care. Popularization of the uses of these plants and little research and development activities can improve the economic viability for cultivation and regular marketing of many of these plants.

Plants considered as poisonous in this account are also quite useful in other senses. Many of these plants are of multipurpose use.