

## *Ficus* (Fig) species in Nepal: a review of diversity and indigenous uses

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# ***Ficus* (Fig) species in Nepal: a review of diversity and indigenous uses**

## **Abstract**

*Ficus* (Fig) species have a wide range of distribution and uses in Nepal. Of the 36 *Ficus* species native to Nepal, 21 are indigenously used as food, fodder, fuel wood, vegetable, medicine, etc. and some are used religiously in Nepal, and 10 in the closer study area. *Ficus religiosa* (Pipal), *F. benghalensis* (Bar), *F. benjamina* (Sami), *F. racemosa* (Dumri), especially have a high religious value for both Hindus and Buddhists and are deemed sacred. The indigenous use as medicine is very important. *F. benghalensis* (Bar) was found as the medicinally most important species, used to treat 22 ailments.

Key words: *Ficus*, Nepal, traditional use, biodiversity

## **Introduction**

Plants are of utmost interest to the human race and our ancestor also lived on nuts, roots, succulent stems, fruits, and other parts of plants. Today, our existence can still not be imagined without plants. The use and conservation of plants and plant products is rooted in Nepalese culture since time immemorial (Kunwar and Adhikari 2005a). There is a general tendency among villagers in Nepal to preserve useful plants on their own farms (Pokharel 1998).

Fodder plants, long an integral part of farming systems, provide a source of green fodder during the dry season when the decreased forage far exceeds the sustainable supply for livestock (Amatya 1992; Lekhak 1998). Over 300 species of fodder trees are found in Nepal and more than 50% of these are *Ficus* species (Kunwar 2002), which are being cultivated in and around farmlands. The common *Ficus* species in cultivation are *Ficus hispida* (Kharsu), *F. semicordata* (Khaniyu), *F. neriifolia* (Dudhilo), *F. lacor* (Kavro), etc. Their role in Nepal's agriculture is very high, as they provide 40-50% of the animal feed (Pandey 1982). 36 species of *Ficus* are reported so far from Nepal (Table 1) (HMGN 2001) but a detail investigation of their indigenous uses was never undertaken. The present study therefore explored and collated the indigenous uses of *Ficus* species in Nepal.

## **Methods**

Both primary and secondary data were collected. Notes on indigenous uses of plants by the local population were collected from Bardia, Dolpa, Kaski and Kathmandu districts in the central and western part of Nepal. The surveyed study sites range from the tropical zone (250m) to as high as the temperate zone (2950m). Secondary data came from a large range of published and unpublished literature. Plants collected were identified at Tribhuvan University Central Herbarium (TUCH) and specimens are deposited there.

## **Results and Discussion**

### Diversity

*Ficus* species are the most interesting group of trees in Nepal, not only of their useful value but also of their growth habits and religious significance. The genus *Ficus* is an exceptionally large pantropical genus with over 700 species (Berg 1989) and belongs to the family Moraceae. It is retained as a single, large genus because it is well defined by its unique reproductive system, involving Syconia fig- and specialized pollinator wasps (Novotny et al 2002).

Out of 36 species of *Ficus* found in Nepal, 16 species are reported from the study area in western and central Nepal (Table 1). Their distribution is either restricted to one region or they are common throughout Nepal. 11 species were found only in the Makalu Barun region, Eastern Nepal (Chaudhary et al. 2001), with their altitudinal range higher in subtropical region. *Ficus palmata* was observed to be restricted in Western Nepal. These species provide good fodder and various ecological services. They provide nectar, refuge habitat for several bird species and a wide variety of insects, and host orchids and mistletoes. *Ficus benghalensis*, *F. benjamina*, *F. religiosa*, *F. lacor*, *F. neriifolia*, *F. glaberrima* are common host plants for orchids (Subedi & Paudyal 2001). Some orchid species are restricted to the tree trunks and branches of *Ficus*

*glaberrima*, *Ficus religiosa*, and *F. hispida* are frequent hosts for mistletoes *Scurrula pulverulenta* and *Dendrothoe falcata* (Kunwar et al. 2005).

*Ficus religiosa* (Peepal), *F. benghalensis* (Bar), *F. benjamina* (Sami), *F. racemosa* (Dumri) etc. possess high religious value for both Hindus and Buddhists (Subedi et al 1998, Shrestha 1999) and are deemed sacred. *Ficus religiosa* is not uprooted, it grows on shrines and buildings, because it represents the Hindu god lord Vishnu, the god of sustenance. It is widely worshipped as Bodhi tree under which lord Buddha attained enlightenment (Majupuria and Joshi 1989). For antiquity and veneration the Peepal is unrivalled throughout the world. No other tree is claimed to have such long life's part of one in Ceylon, said to have been planted in the year 288 B.C., still lives and flourishes (Cowen 1970).

Table 1. Diversity of *Ficus* species in Nepal

S.No	Species	Altitude	Habit	Distribution
1	<i>Ficus altissima</i> Blume		Tree	Himalaya
2	<i>F. abelii</i> Miq.		Tree	C
3	<i>F. arnottiana</i> (Miq.) Miq.	850-1500	Small tree	EW
4	<i>F. auriculata</i> Lour.*	250-1700	Tree	CW
5	<i>F. benghalensis</i> L.*	500-1200	Tree	CEW
6	<i>F. benjamina</i> L.*	150-1000	Tree	CW
7	<i>F. curtipes</i> Corner	450-600	Small tree	E
8	<i>F. drupacea</i> Thunb.	1100	Tree	E
9	<i>F. elastica</i> Roxb. ex. Hornem*		Tree	C
10	<i>F. geniculata</i> Kurz	650	Tree	E
11	<i>F. glaberrima</i> Blume*	600-1500	Tree	CW
12	<i>F. hederacea</i> Roxb.*	500-1500	Climber	CW
13	<i>F. heterophylla</i> L.f.	300	Shrub	W
14	<i>F. hirta</i> Vahl	900	Small tree	C
15	<i>F. hispida</i> L.*	450-1100	Small tree	CEW
16	<i>F. hookeriana</i> Corner	1800	Small tree	E
17	<i>F. lacor</i> Buch.-Ham.*	500	Tree	CW
18	<i>F. laevis</i> Blume	300	Tree epiphyte	CE
19	<i>F. microcarpa</i> L.f.	300-1100	Tree epiphyte	CW
20	<i>F. nepalensis</i> Spreng.		Small tree	C
21	<i>F. nerifolia</i> Sm.*	1400-2200	Tree	CW
22	<i>F. nervosa</i> Heyne ex Roth	450-600	Tree	E
23	<i>F. oligodon</i> Miq.*	1000-1800	Tree	CEW

24	<i>F. palmata</i> Forssk*	600-2300	Small tree	W
25	<i>F. pubigera</i> (Wall ex Miq.) Brandis		Small tree	C
26	<i>F. pumila</i> L.*	1400	Tree	C
27	<i>F. racemosa</i> L.*	300	Tree	CW
28	<i>F. religiosa</i> L.*	150-1500	Tree	CEW
29	<i>F. rumphii</i> Blume	200	Tree	W
30	<i>F. sarmentosa</i> Buch.-Ham. ex Sm.*	1400-2500	Shrub	CEW
31	<i>F. semicordata</i> Buch.-Ham. ex Sm.*	200-1700	Tree	CE
32	<i>F. squamosa</i> Roxb.	500-600	Shrub	CE
33	<i>F. subincisa</i> Buch.-Ham. ex Sm.	300-1800	Tree	CEW
34	<i>F. subulata</i> Blume	300	Shrub	E
35	<i>F. tinctoria</i> G. Forst.		Shrub	W
36	<i>F. virens</i> Aiton	80-200	Tree	E

\* Species observed in study area C= Central Nepal, E = East Nepal, W = West Nepal

Indigenous use

21 *Ficus* species are indigenously used in Nepal for various purposes. Of 21 *Ficus* species, 16 species are used as ethnomedicine and five species (*F. glaberrima*, *F. hederacea*, *F. hookeriana*, *F. oligodon* and *F. virens*) are used only as fodder and fuelwood. Only 10 species (*Ficus auriculata*, *F. benghalensis*, *F. benamina*, *F. hederacea*, *F. hispida*, *F. palmata*, *F. racemosa*, *F. religiosa*, *F. sarmentosa*, and *F. semicordata*) are reported to be extensively used in study area. The use of *Ficus* species as ethnomedicine in Nepal is quite noteworthy (Kunwar & Adhikari 2005b). *F. benghalensis* (Bar) is most important, used to heal 22 ailments. For enumeration, taxa are arranged alphabetically. Vernacular names are given in *italics*, followed by synonyms and ethnobotanical uses.

#### 1. *Ficus auriculata* Lour.

Vernacular names: *Kaitak* - Chepang; *Eve's apron*, *Roxburgh fig* - English; *Paingi* - Gurung; *Tirmal*, *Timla* - Hindi; *Poyepa* - Limbu; *Anjir*, *Nimaro*, *Gopa*, *Timila*, *Bhutuk* -Nepali; *Mago* - Tamang.

Syn. *Ficus roxburghii*, *F. macrophylla*

Uses: Fodder and edible (Gajurel et al. 1987; Shrestha 1988b; Shakya 1992; Muller-Boker 1993; Chapa 1994; Kaundinya 1998; Manandhar & Acharya 2003; Nepal & Sapkota 2005).

Leaves are crushed and the paste is applied on the wounds (Shrestha & Dhillon 2003). They are also used in diarrhea and dysentery (Manandhar 1991b). Leaves are used for making plates for festive banquets (Chhetry 1996). Stem bark juice is effective for diarrhea (Bhattarai 1992, 1993b), cuts and wounds. Roasted figs are taken for diarrhea and dysentery (CECI 2004). Root latex is used in mumps (Oli 2001), cholera, diarrhea and vomiting (Devkota & Karmacharya 2003; Pant & Panta 2004). Mixture of root powder of *F. auriculata* and bark of *Oroxylum indicum* is taken in jaundice.

#### 2. *Ficus benghalensis* L.

Vernacular names: *Bar* - Bhojpuri; *Bar* - Chepang; *Bar* -Danuwar; *Banyan tree* - English; *Bar* - Gurung; *Bargad*, *Watam* - Hindi; *Kungiyi* - Lepcha; *Lara* -Limbu; *Paramsing* - Magar; *Bar* - Mooshar; *Bar* - Nepali; *Bara*, *Dariyongma* - Rai; *Avaroha*, *Bahupada*, *Bhringi*, *Jatalo*, *Vat* - Sanskrit; *Banidare* -Satar; *Bargadh* - Tharu; *Ni-gro-dha* - Tibetan.

Syn. *Ficus indica*, *Urostigma benghalensis*

Uses: Edible, fodder, fuelwood and ceremonial (Manandhar 1972; HMGN 1982; Tiwari 1983; Siwakoti et al. 1997; Bhatta 1999; Ghimire et al. 2000; Pandey 2000; Sah et al. 2002; Nepal &

Sapkota 2005).

Stem bark is used as antihelminthic. It is used for diarrhea, dysentery, diabetes, cuts and wounds, joint pain, cracked heel and toe (Sarkar 1994; Siwakoti & Varma 1996; Karna 1997; Shakya et al. 1999; Joshi & Joshi 2001; Panthi & Chaudhary 2003). Stem bark of *F. benghalensis*, root of *Asparagus racemosus*, fruits of *Annona squamata*, and shoot of *Colebrookea oppositifolia* are crushed and eaten on empty stomach to cure urinary problems (Paudyal 2000). Bark decoction is taken as antidote (Thapa 2001), used in epitaxis (Bhattarai 1993c) and stomachache. Boiled bark is employed in cold, cough and asthma. Milky sap from bark is used for diarrhea, dysentery, indigestion, joint pain (Shakya 2000), dermatitis, gum swelling, gonorrhoea, and snake bite. It is valued to take out pus of wounds (Manandhar 1986) and is mixed with sugar to give to children suffering dysentery (Yadav 1999). The latex is also used for polishing copper, brass and bronze (Vihari 1995). Leaves latex causes allergy to children (Dangol 2002).

Aerial root juice is used for stopping menstruation and applied externally for body pain, toothache, diabetes, joint pain (Mishara 1998) and rheumatism (Kharel & Siwakoti 2002). Root bark powder is mixed with *Desmostachys bipinnata* (Kush) and sugar and considered to control leucorrhoea. Root latex treats boils and wounds (Parajuli 2001; Siwakoti et al. 2005) and obstinates vomiting (Chopra et al. 1956). The decoction from aerial roots and water obtained from rice wash is used in diarrhea.

### 3. *Ficus benjamina* L.

Vernacular names: *Golden fig, Java fig* - English; *Pukar* - Hindi; *Sami, Sarane, Swami* - Nepali; *Banij* - Sanskrit; *Jhinpatiya* - Tharu.

Syn. *Ficus comosa, F. nuda*

**Uses:** Ceremonial and fodder (Singh 1968; Thapa et al. 1997; Parajuli 2000; Bhattarai 2002).

Twigs are used as insect repellent by keeping them under the beds (Bhandary & Shrestha 1986).

Leaf juice is used as flea and bug repellent (Shrestha 1985). Latex is applied on boils.

### 4. *Ficus glaberrima* Blume

Vernacular names: *Pakhuri* - Nepali.

Syn. *Ficus angustifolia*

Uses: Fodder, edible and fuelwood (Upadhyay 1992; Tiwari 1994; Kaundinya 1998; Manandhar 2002). Ceremonial (Rijal 1994; Pokhrel 1998; Pandey 2000; Panthi and Chaudhary 2002).

### 5. *Ficus hederacea* Roxb.

Vernacular names: *Dudhe lahara* - Nepali.

Syn. *Ficus fruticosa, F. scandens*

Uses: Fodder (Dangol and Gurung 1995; Manandhar 2002).

Inner bark is used for temporary binding (Manandhar 2002).

### 6. *Ficus hirta* Vahl

Vernacular names: *Khoksa* - Danuwar; *Khasreto* - Nepali; *Khahatya* - Raute.

Syn. *Ficus hirsuta, F. triloba*

Uses: Edible (Manandhar 2002). Stem latex is used for wounds (Manandhar 1990a, 1990b). Stem bark is boiled and its gel is used in fever (Manandhar 1998b).

### 7. *Ficus hispida* L.f.

Vernacular names: *Kautaik* - Chepang; *Kothayo* - Darai; *Hairy fig* - English; *Khasre, Thotne* - Gurung; *Kathumber, Daduri* - Hindi; *Bhutu* - Magar; *Kharsu, Khasreto, Tote, Koksa, Kothedumar* - Nepali; *Seta podo* - Satar; *Mogu* - Tamang; *Khur hur, Kharaha, Kothaiya* - Tharu.

Syn. *Ficus caudiculata, F. daemanum, F. daemonum, F. prominens*

**Uses:** Fodder and edible (HMGN 1982; Shrestha 1990; Amatya 1991; Dhakal & Aizz 1996; Amatya 1999; Kunwar 2002; Manandhar & Acharya 2003; Bishokarma et al. 2005; Khatri 2005).

Leaf juice is taken for earache (Basnet 1998). Fumes from twigs are used against earache (Dangol & Gurung 1995; Ghimire et al. 2000) and liver troubles. Fruit, seed and bark are emetic and purgative in nature (Kharel & Siwakoti 2002). Root juice is used for fever (Manandhar 1993).

### 8. *Ficus hookeriana* Corner

Syn. *Ficus hookeri*

Uses: Fodder (Manandhar 1972b, Lekhak 1998).

### 9. *Ficus lacor* Buch.-Ham.

Vernacular names: *Kushi* - Danuwar; *Kabro* - Darai; *Elephant fig, Java fig* - English; *Khatarumba* - Limbu; *Kapara* - Magar; *Kavro, Gular, Pakadi* - Nepali; *Chaspou, Chokchi* - Rai; *Katho, Nakkali* - Tamang; *Rikhi* - Thami; *Kapro* - Tharu.

Syn. *Ficus infectoria*

**Uses:** Ceremonial, edible and fodder. Young buds (*Surulo*) are used in making pickles (Shrestha 1983; Amatya & Rajbhandary 1991; Tiwari 1994; Shakya et al. 1995; Thapa 2000).

Stem bark is used in gastric and ulcer (Bajracharya et al. 1978; Bhattarai et al. 2000; Pandey 2001; Rai et al. 2004). Milky latex of stem is used in typhoid and heavy fever, dysentery (Oli 2001) and boils. Decoction of buds is considered for ulcer and leucorrhoea (Chopra et al. 1956; HMG 1970), gargle in salivation (Malla 1994), boils (Manandhar 1985), pimples and blisters. Dried buds are used to treat harsa (Nakarmi 2001). Seeds are tonic in nature and used in treatment of stomach disorder (Bhatt 1977).

10. *Ficus neriifolia* Sm.

Vernacular names: *Cheksi* - Chepang; *Ghara, Gnta, Tauchhi* - Gurung; *Khepsewa* - Limbu; *Dudhilo, Dudhe* - Nepali; *Ngerpou, Didulang, Wakasi* - Rai; *Nunuthi* - Thami; *Mago, Grebanam, Nedhar, Nelam* - Tamang.

Syn. *Ficus nemoralis*, *F. gemella*, *F. trilepis*, *F. fieldingii*, *F. binata*

**Uses:** Fodder and fuelwood (Singh 1968; Shrestha 1985; Shrestha 1989; Upton 1990; Kapali 1992; Shakya 1992; Chhetry 1996; Nepal 1999; Thapa 2000; Niraula 2001; Manandhar 2002; Panthi and Chaudhary 2002; Gurung 2003; Turin 2003; Manandhar and Acharya 2003; Rajbhandary and Dhakal 2003).

Stem bark juice is given in conjunctivitis and boils (Manandhar 2001, 2002).

11. *Ficus oligodon* Miq.

Vernacular names: *Namsi* - Chepang; *Nimaro* - Nepali, *Waspou* - Rai; *Kholtu, Chanadumri* - Tharu.

Syn. *Ficus hamiltoniana*, *F. pomifera*

**Uses:** Edible (Muller-Boker 1993; Rijal 1994; Shrestha et al 2003).

Fodder (Nepal 1999; Karki 2001; Chaudhary et al 2001; Shrestha and Kunwar 2003).

12. *Ficus palmata* Forssk.

Vernacular names: *Anjir* - Hindi; *Kappa* - Magar; *Bendu, Anjir, Timilo, Beru, Bedu* - Nepali.

Syn. *Ficus caricoides*, *F. virgata*

**Uses:** Edible, fodder and fuelwood (HMG 1982; Bhatta 1999; Panthi & Chaudhary 2002).

Fruit paste is used in ringworm and skin diseases (Thapa 2001). Ripe fruits are used in dysentery and vomiting (Devkota & Karmacharya 2003; Pant & Panta 2004). Stem latex is applied to extract spines deeply lodged in the flesh (Manandhar 1995, 2002).

13. *Ficus microcarpa* Linn.f.

Vernacular names: *Golden fig*-English; *Sami*-Nepali

Syn. *Ficus retusa*

**Uses:** Leaf extracts is used as insecticide against housefly (Franenkel 1959; Sahu 1997).

14. *Ficus racemosa* L.

Vernacular names: *Dumri* - Bankariya; *Gular* - Danuwar; *Cluster fig* - English; *Dumri, Gular* - Nepali; *Loa* -Satar; *Udumbara* - Sanskrit; *Gullar, Gullri* - Tharu.

Syn. *Ficus glomerata*, *F. goolereea*

**Uses:** Fodder, edible and ceremonial (Manandhar 1972; HMG 1982; Dhakal & Aizz 1996; Chaudhary et al. 1999; Pathak 2000; Priya 2000; Sah et al. 2002; Manandhar & Acharya 2003).

Milky juice of stem is used to cure stomachache (Ghimire et al. 2000), cholera and mumps (Basnet 1998). It is used in boils, diarrhea, dysentery and piles (Yadav 1999). Root sap cures heat stroke, chronic wounds and malaria in cattle (Thapa 2001). Leaf latex and cow milk are mixed and used for boils and blisters (Siwakoti & Siwakoti 2000) and measles. Leaf juice is massaged in hair to check splitting. Infusion of leaves is used in menorrhoea. Fruit paste is applied in regulating diarrhea and constipation (Vihari 1995). Seed paste is taken in measles and smallpox (Acharya 1996) and diarrhea (Singh 1994). Paste of stem bark is taken in burns, swelling and leucorrhoea (Paudyal 2000), dysentery, diarrhea and used as astringent (Tiwari 2001). The powder from stem bark is used in curing boils and secretion of milk for lactating mother. Latex is used as adhesive (Dangol 2002).

15. *Ficus religiosa* L.

Vernacular names: *Pipal* - Bhojpuri; *Pipal* - Chepang; *Pipar* - Danuwar; *Pipal, Bo tree, Peepal tree* - English; *Pipal* - Gurung; *Pipal, Pipali* - Hindi; *Tongiyar* - Lepcha; *Pendi, Pirimsing* - Limbu; *Pipal* -Magar; *Pipar* - Mooshar; *Pipal* - Nepali; *Ashawatha, Bodhidruma, Pippala, Suchudruma, Vrikshraj, Yajnika* -Sanskrit; *Pipal* - Tamang; *Pipra* - Tharu; *Bo-de-tsa* - Tibetan.

**Uses:** Edible, ceremonial, fodder and fuelwood (Manandhar 1972; Upadhyay 1992; Acharya 1999; Parajuli 2000; Rajbhandary & Dhakal 2003; Khatri 2005).

Leaf juice and honey is applied on asthma, cough, sexual disorders (Yadav 1999; Gurung 2002),

diarrhoea (Bhattarai 1993b), haematuria (Jain et al. 1991), earache and toothache (Muller Boker 1999; Kharel & Siwakoti 2002), migraine (Mandar & Chaudhary 1993), eye troubles (Tiwari 2001), gastric problems (Kattel & Kurmi 2004) and scabies. Leaf decoction is used as analgesic for toothache. Fruits are eaten to facilitate asthma (Bhattarai 1993a) and respiratory system. Fruit paste is taken to cure scabies (Siwakoti et al. 2005). Stem bark is used in gonorrhoea (Joshi & Joshi 2000), bleeding (Shrestha 1997; Dangol 2002), cuts, wounds (Manandhar 1998a), paralysis, diabetes (Thapa 2001), diarrhea, bone fracture (Karki 2001) and used as antiseptic, astringent and antidote. Bark infusion is taken in scabies. Bark juice taken with *Dolichus biflorus* (*Ghahata* in Nepali and *Karhi* in Tharu) is used to reduce fever in cattle (Chaudhary 1994). Paste of bark is taken with honey to treat cough and cold as well as accompanying mild fever. Aerial root juice is used for menstrual problems (Manandhar 1998b).

16. *Ficus rumphii* Blume

Vernacular names: *Wagrans* - Chepang; *Kathepipal*, *Paharepipal* - Nepali; *Pekle*, *Dango* - Tamang.

Syn. *Ficus cordifolia*,

Uses: Fodder (Manandhar 2002). Foot and mouth disease of cattle is treated by feeding *F. rumphii* (Manandhar 1992, 2002).

17. *Ficus sarmentosa* Buch.-Ham. ex Sm.

Vernacular names: *Dumri* - Darai; *Aagjara* - Magar; *Berulo*, *Gai berulo*, *Bantimila* - Nepali; *Mogu* - Tamang.

Syn. *Ficus foveolata*, *F. luducca*

Uses: Edible (Manandhar 1980, 1991a, 2002; Shrestha 1988a, b; Dangol and Gurung 2000).

Bark powder is taken to cure boils and secrete more milk during delivery.

Root extract is used in malaria (Dangol and Gurung 2000).

18. *Ficus semicordata* Buch.-Ham. ex Sm.

Vernacular names: *Kokshi* - Chepang; *Khurhur* - Danuwar; *Nepal fodder fig*, *Red earth fig*, *Wedgeleaf fig* - English; *Khajare* - Gurung; *Kokse*, *Yangkhoppa* - Limbu; *Aarkhot* -Magar; *Khaniyu* - Nepali; *Khuksi*, *Khokpou* - Rai; *Kho* - Raute; *Hor podo* - Satar; *Koshing* -Tamang; *Khurburia*, *Khurkhuri* - Tharu.

Syn. *Ficus cunia*, *F. conglomerata*

**Uses:** Fodder and edible (Singh 1968; Bajracharya et al. 1978; Maskey & Shah 1982; Karki 1994; Khan 1997; Bhatta 1999; Rajbhandary & Dhakal 2003; Shrestha & Kunwar 2003; Uprety 2005).

The use of latex to cure boils is so ancient that it is also reported from the Holy Bible. A bath made from the fruit and bark is a cure for leprosy. Latex is drunk to cure fever (Rijal 1994). Raw fruits are eaten in diarrhea (Bhattarai 2002). Young fruit juice is applied in forehead to relieve headache (Manandhar 1998b). Young twigs are fed to cattle for facilitating the discharge of placenta (Dangol & Gurung 1995). Fume of twigs is used in earache (Muller-Boker 1993). Bark of *Ficus semicordata*, *Schima wallichii*, *Syzygium cumini*, *Phyllanthus emblica* and *Mangifera indica* are pounded and given in ulcer and gastric (Manandhar 1993). Root paste is taken to cure headache.

19. *Ficus subincisa* Buch.-Ham. ex Sm.

Vernacular names: *Cheksi* - Chepang; *Kane chhi* - Gurung; *Belda* - Lohar; *Birula*, *Lekho* - Magar; *Bedulo*, *Bello*, *Aankhpakuwa* - Nepali; *Lomago*, *Soror* - Tamang.

Syn. *Ficus chincha*, *Ficus clavata*, *F. caudata*, *F. trachycarpa*

Uses: Long term feeding results eye infection. Seed is antihelminthic (Devkota and Karmacharya 2003; Pant and Panta 2004).

Leafy biomass 60-80 Kg/Yr, Crude protein 18 % (Amatya et al 1994), 15.2% (Malla 2004).

*Fodder*, *Fuelwood* (Pandey 1982, Shrestha 1985, Shrestha 1988a, Shrestha 1988b, Rijal 1994, Amatya et al 1994, Pokhrel 1998, Pandey 2000, Manandhar 2002; Panthi and Chaudhary 2002, Manandhar and Acharya 2003).

20. *Ficus virens* Aiton

Vernacular names: *White fig*, *sour fig*, *grey fig* - English; *Pilkhan* - Hindi; *Pakar* - Nepali; *Pakhar* - Satar.

Syn. *Ficus infectoria*

Uses: Foliage buds are eaten as vegetable and pickle (Siwakoti et al 1997).

21. *Ficus spec. indet.*

Vernacular names: *Dhungre*, *Ghansbar* - Nepali; *Paphu* - Rai.

**Uses:** Plant is used as fodder (Pandey 1982).

Leaves are used for making plates use in ceremony (Nepal 1999). Plant is useful as food for

butterfly larvae (*Cyrestis thyodamus* - Common map, *Euploea core* - Common Indian crow) (Khanal & Bhandary 1982).

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