

# GREEN AUDIT REPORT



**SWAMI VIVEKANAND GOVERNMENT COLLEGE  
GHUMARWIN**

**DISTRICT –BILASPUR (H.P.)**

Website: <https://gcghumarwin.org.in>

Email ID: gcghumarwin-hp@nic.in



©Principal,  
Swami Vivekanand Government College Ghumarwin  
District –Bilaspur (H.P.) -174021  
Phone: 01978-255551

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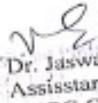
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## MEMBERS OF THE GREEN AUDIT COMMITTEE

### NON-TECHNICAL MEMBERS

  
Dr. R.D. Sharma  
Associate Professor  
SSVG C.Ghumarwin  
S.V. Govt. College Ghumarwin  
Distt. Bilaspur (H.P.)

  
Mr. Bhajan Lal  
Associate Professor  
SSVG C.Ghumarwin  
S.V. Govt. College Ghumarwin  
Distt. Bilaspur (H.P.)

  
Dr. Jaswant Singh Saini  
Assistant Professor  
SSVG C.Ghumarwin

  
Ms. Anjana Kishnani  
Assistant Professor  
SSVG C.Ghumarwin

  
Executive Officer  
Municipal Council Ghumarwin  
Municipal Council  
Distt. Bilaspur (H.P.)  
Ghumarwin

### TECHNICAL MEMBERS

  
Project Officer

  
Sr. Engineer  
HIMTRA, Distt. Bilaspur (H.P.)

  
Sub-Divisional Officer  
Asstt. Engineer  
Electrical Sub Division  
HPSEB, Ghumarwin  
Distt. Bilaspur (H.P.)

  
Sub-Divisional Officer  
Innovation & Public Health  
Ghumarwin

  
Dr. Vasundhara Rajan Bhardwaj  
Principal  
  
Principal  
Swami Vivekanand Government College Ghumarwin  
Swami Vivekanand Govt. College  
District - Bilaspur (H.P.)  
Ghumarwin Distt. Bilaspur (H.P.)  
PIN-174021



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## **ABOUT GREEN AUDIT**

- ⊕ Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of various establishments.
- ⊕ It aims to analyze *environmental* audit within and outside of the Swami Vivekanand Government College Ghumarwin, which will have an impact on the eco-friendly ambience.
- ⊕ Swami Vivekanand Govt. College Ghumarwin, Distt. Bilaspur H.P. was established in 1994 as a co-educational institution, functioning in the premises of Govt. Primary School Kalari. When the ACC Cement factory Barmana started the construction work of the majestic building, the college was shifted to a rented building at Ghumarwin.
- ⊕ In 1999, the ACC Cement factory Barmana handed over the building to the state Government and the college was provided its own infrastructure at Kalari at a distance of three k.m. west-north of Ghumarwin town.
- ⊕ At present its campus is spread over 14.04 acres of land.
- ⊕ In 1994, when the college was established, only arts faculty was started.
- ⊕ In 1998 Science and Commerce faculties were also introduced. The institution was recognized by UGC under sections of 2(f) in 1999 and 12 (B) in 2008.
- ⊕ In the session 2009-2010 two new vocational courses BCA and PGDCA were introduced under self financing scheme. In the academic session 2012-2013 M.A. English was started and in the same session under self financing scheme BBA, another vocational course, was also started. At present college is imparting postgraduate degree in Political Science, Commerce, Physics and Mathematics.
- ⊕ At present the college caters to the academic requirements of more than 2800 students of Ghumarwin and its surroundings.
- ⊕ Presently as many as 45 teaching and 23 non-teaching members are providing their services.

Green Auditing of college campus is the base line survey based on onsite visits and personal observations. Initially the campus is divided into main three sections (academic building, recreational area and residential area).

**TABLE 1: DIVISION OF CAMPUS AREA**

S. No.	SECTION	AREA OF CAMPUS
1.	ACADEMIC BUILDING	Administrative Block
		a) Principals Office
		b) Offices
		Faculty Rooms
		Library
		Laboratories
		Class Rooms
		Multipurpose Hall
		Washrooms
		Store
2.	RECREATIONAL AREA	Caretaker Room
		College Canteen
		College Indoor Gym
		Outdoor Courts/Rings
		Playground
3.	RESIDENTIAL AREA	Streets
		Girls Hostel
		Staff Quarters
		Guest House

As per our observation the emphasis is given on the green cover and best practices followed by the institution for sustainable development of the area.

## **GREEN COVER**

Swami Vivekananda Government College Ghumarwin is within the geo-position between latitude 31°27'39.1"N 76°41'33.2"E in Bilaspur, Himachal Pradesh, India (Fig 1). The area is enriched with diverse green cover in its close vicinity performing variety of ecological functions like providing oxygen, improving air quality, climate amelioration, conservation of water, preserving soil, and supporting wildlife, controlling climate by moderating the effects of the sun, rain and wind. Besides natural flora, many species are planted in different periods of time through various plantation programmes organised by the authority and have become an integral part of the college. The vegetation display a seemingly endless variety of shapes, forms, texture, vibrant colors hence improving the aesthetic value of the region. Even individual plants vary their appearance throughout the course of the year as the seasons change. We often make an emotional connection with these plants and sometime become personally attached to the ones that we see every day. A thick belt of large shady trees in the periphery of the college have found to be bringing down noise and cut down dust and storms. A recent study has revealed that the rich diversity of plant species growing naturally and planted has help in carbon sequestration of the area. Thus, the college has been playing a significant role in maintaining the environment of the entire Kalri village and its surrounding areas.

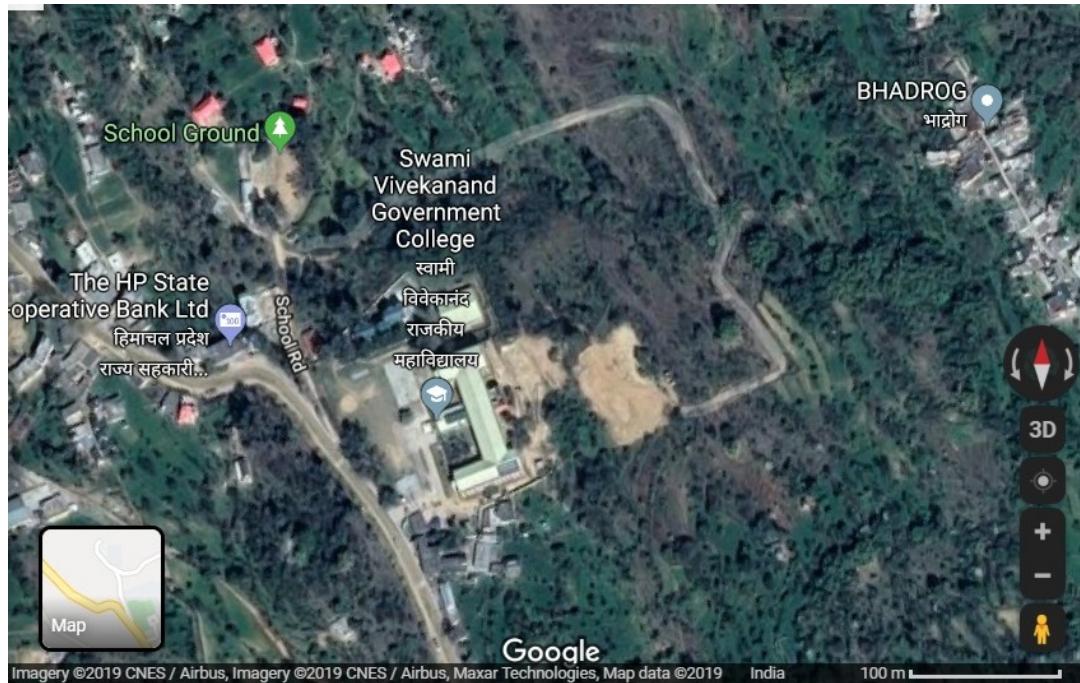


Fig: 1 Satellite view of Swami Vivekanand Government College Ghumarwin (Source: Google Map)

TABLE II: FLORA OF SWAMI VIVEKANAND GOVERNEMNT COLLEGE GHUMARWIN

Sr. No. Name of the Plant in bold face and Synonymous Name (s)	Family	COMMON NAMES IN CAPITALS; and Most Common Vernacular name (s)
1) <i>Abrus precatorius</i> L.	Papilionaceae / Fabaceae <i>nom. alt.</i> Leguminosae, subfamily Papilionatae	INDIAN LIQUORICE, JEQUIRITY. <b>Vern.:</b> Gunchi, Gunga, Raktan, Rati
2) <i>Acacia caesia</i> Wight & Arn. <i>Syn.</i> <i>Acacia torta</i> Craib.	Mimosaceae <i>nom.</i> <i>alt.</i> Leguminosae subfamily Mimosoideae	<b>Vern.:</b> Refan, Dhangar Aila. Kurad.
3) <i>Acacia catechu</i> (L. f.) Willd.	Mimosaceae <i>nom.</i> <i>alt.</i> Leguminosae subfamily Mimosoideae	BLACK CATECHU, CATECHU, CATECHU NIGRUM, CUTCH, PEGU CATECHU. <b>Vern.:</b> Katha, Khair, Khairbabul
4) <i>Acacia leucophloea</i> Willd. <i>Syn.</i> <i>Mimosa leucophloea</i> Roxb., <i>Mimosa alba</i> Rottl., <i>Acacia alba</i> (Rottl.) Willd.	Mimosaceae <i>nom.</i> <i>alt.</i> Leguminosae subfamily Mimosoideae	WHITE BABOOL, DISTILLER'S ACACIA. . <b>Vern.:</b> Reur, Safed kikar, Safed babul,

5) <i>Achyranthes aspera</i> L. var. <i>aspera</i> L.	Amaranthaceae	PRICKLY CHAFF FLOWER. <b>Vern.:</b> Apang, Chichra, Chirchira, Chirchitta, Latjira, Puthkanda, Umblokando
6) <i>Achyranthes bidentata</i> Blume.	Amaranthaceae	<b>Vern.:</b> Puthkanda, Umblokando, Umblakanta
7) <i>Adhatoda zeylanica</i> Medik. Syn. <i>Adhatoda vasica</i> Nees., <i>Justicia adhatoda</i> L.	Acanthaceae	MALABARNUT, VASAKA. <b>Vern.:</b> Adalsa, Adarsa, Adulasa, Adulaso, Arusa, Arusha, Bansha, Bashing, Basuti, Bhekar, Rusa, Vasaka
8) <i>Aegle marmelos</i> (L.) Correa.	Rutaceae	BAEL TREE, BAEL FRUIT TREE, BENGAL QUINCE, GOLDEN APPLE, HOLY FRUIT, INDIAN QUINCE, STONE APPLE. <b>Vern.:</b> Bael, Bel, Bili, Bil, Bill, Sirphal
9) <i>Agave sisalana</i> Perr., Syn. <i>Agave rigidia</i> Mill. Var. <i>sisalana</i> Engelm.	Agavaceae	AGAVE, SISAL HEMP. <b>Vern.:</b> Duarya, Kohar-patha, Ramban
10) <i>Albizia chinensis</i> (Ozb.) Merr. Syn. <i>Albizia siipulata</i> (Roxb.) Boiv.	Mimosaceae <i>nom. alt.</i> Leguminosae subfamily Mimosoideae	<b>Vern.:</b> Cheoli, Kanujira, Kasir, Oe, Oi, Oee, Ohi, Pattia, Samosu, Somsundra, Siran
11) <i>Albizia lebbek</i> (L.) Willd.	Mimosaceae <i>nom. alt.</i> Leguminosae subfamily Mimosoideae	PARROT TREE, SIRIS TREE, SIZZLING TREE. <b>Vern.:</b> Garso, Kalshish, Kalsis, Lasrin, Mathirshi, Shiris, Shirish, Sirai, Sirar, Siras, Sirin, Siris, Sirsa, Tantia
12) <i>Albizia odoratissima</i> (L. f.) Benth.	Mimosaceae <i>nom. alt.</i> Leguminosae subfamily Mimosoideae	BLACK SIRIS. <b>Vern.:</b> Kala siris, Karmaru
13) <i>Aloe vera</i> (L.) Burm.f., <i>Aloe barbadensis</i> Mill., <i>Aloe indica</i> Royle.	Liliaceae	ALOE, BARBADOS, CURACAO, COMMON INDIAN OR JAFFARABAD ALOE. <b>Vern.:</b> Ghiguvara, Ghikumari, Gvarapatha, Kumari, Kuvarapatha
14) <i>Andrachne cordifolia</i> Muell.	Euphorbiaceae	<b>Vern.:</b> Chirmutti, Mutkar, Pin; Bersu; Bhatula; Gurguli; Bharti, Bhartoi; Gurguli, Kurkni; Gurgub
15) <i>Anisomeles indica</i> (L.) Kuntze. Syn. <i>Anisomeles ovata</i> R.Br.	Lamiaceae <i>nom. alt.</i> Labiate	<b>Vern.:</b> Pakumber
16) <i>Anogeissus latifolia</i> (Roxb. ex DC.) Bedd.	Combretaceae	AXLE-WOOD. <b>Vern.:</b> Chhal, Challya, Dhaao, Dhawa, Dhaura, Taw
17) <i>Anthocephalus chinensis</i> (Lamk.) A Rich ex Walp. Syn. <i>Anthocephalus cadamba</i> (Roxb.)	Rubiaceae	<b>Vern.:</b> Kadam, Kadamb

	Miq. <i>Anthocephalus indicus</i> A. Rich., <i>Nauclea cadamba</i> Roxb., <i>Sarcocephalus cadamba</i> Kurz.		
18)	<i>Araucaria columnaris</i> (Forster) Hook. Syn. <i>Araucaria cookie</i> R. Br. ex Lindl.	Araucariaceae	COLUMNAR ARAUCARIA, COOK'S ARAUCARIA, COOK'S PINE. Vern. Araucaria
19)	<i>Arundo donax</i> L.	Poaceae nom. alt. Gramineae	GREAT REED, SPANISH CANE. Vern.: Gaha-nal, Bara- nal, Bansi, Nar, Naria, Nal
20)	<i>Asparagus adscendens</i> Roxb.	Liliaceae	ASPARAGUS FERN. Vern.: Hajarmuli, Khairewa, Satavar, Safedmusli
21)	<i>Asparagus racemosus</i> Willd.	Liliaceae	WILD ASPARAGUS. Vern.: Bojhidan, Sadabori, Sansbai, Satavar, Satmuli, Shakatul
22)	<i>Azadirachta indica</i> A. Juss. Syn. <i>Melia indica</i> Br., <i>Melia azadirachta</i> L.	Meliaceae	INDIAN LILAC, MARGOSA TREE, NEEM TREE. Vern.: Balnimb, Neem, Nim, Nimb, Ninb
23)	<i>Bambusa nutans</i> Wall. ex Munro.	Bambusaceae	Vern.: Chaw
24)	<i>Bauhinia purpurea</i> L.	Caesalpiniaceae nom. alt. Leguminosae, subfamily Caesalpinoideae	PURPLE BAUHINIA. Vern.: Gairal, Kaliar, Kandan, Karalya, Kaniar, Khairwal, Koilari, Koinar, Sona
25)	<i>Bauhinia racemosa</i> Lam.	Caesalpiniaceae nom. alt. Leguminosae, subfamily Caesalpinoideae	Vern.: Ashta, Asoda, Dhorara, Ghila, Gurial, Jhanjhora, Jhinjheri, Kachnal, Koryale, Kasunda, Makkuna, Marvil, Maula, Papri, Shirahuta, Thaur
26)	<i>Bauhinia vahlii</i> Wight. & Arn. Syn. <i>Phanera vahlii</i> (W. & A.) Benth.	Caesalpiniaceae nom. alt. Leguminosae, subfamily Caesalpinoideae	CAMEL'S FOOT CLIMBER. Vern.: Maljan, Taur, Tor, Torrrya
27)	<i>Bauhinia variegata</i> L.	Caesalpiniaceae nom. alt. Leguminosae, subfamily Caesalpinoideae	BUDHIST'S BAUHINIA, GERANIUM TREE. Vern.: Barial, Gurial, Gwiar, Kachnar, Kandan, Kaniar, Karyala, Khairwal, Khwaira, Koliar, Kural, Padrian
28)	<i>Berberis lycium</i> Royle	Berberidaceae	Vern.: Kashmal, Kasmale
29)	<i>Berberis vulgaris</i> L.	Berberidaceae	BARBERRY, BERRRY, EUROPEAN BARBERRY, JAUNDICE BERRY. Vern.: Chochar, Kashmal, Kembal, Tutrum, Zirishk, Zirishk-tursh
30)	<i>Biota orientalis</i> (L.) Endl. Syn. <i>Thuja orientalis</i> L.	Cupressaceae	CHINESE ARBORVITAE, PEACOCK FEATHER. Vern.: Morepankhi
31)	<i>Boehmeria platyphylla</i> D. Don	Urticaceae	Vern.:

	Syn. <i>Boehmeria macrophylla</i> Hornem		
32)	<b><i>Boehmeria rugulora</i> Weddell.</b>	Urticaceae	Vern.: Genth, Genti, Singar
33)	<b><i>Bombax ceiba</i> L.</b> Syn. <i>Bombax malabaricum</i> DC., <i>Salmalia malabarica</i> (DC.) Schott & Endl.	Bombacaceae	COTTON TREE, SILK COTTON TREE, RED SILK COTTON TREE. Vern.: Kantisembal, Pagun, Ragatsemal, Ragatsembal, Semal, Semul, Semur, Shimbal, Simal, Simbal, Somr
34)	<b><i>Bougainvillea glabra</i> Choisy.</b>	Nyctaginaceae	BOUGAINVILLEA. Vern.: Bougainvillea
35)	<b><i>Bougainvillea spectabilis</i> Willd.</b>	Nyctaginaceae	BOUGAINVILLEA. Vern.: Bougainvillea
36)	<b><i>Bridelia retusa</i> Spreng.</b> Syn. <i>Clutia retusa</i> L.	Euphorbiaceae	KASI. Vern.: Ekdania, Gajh, Gauli, Khaja
37)	<b><i>Broussonetia papyrifera</i> Vent.</b>	Moraceae	PAPER MULBERRY. Vern.: Jangali toot, Japanitoot, Kaagda, Papliath
38)	<b><i>Brugmansia suaveolens</i> (Humb. &amp; Bonpl. Ex Willd.) Berch. &amp; Presl.</b> Syn. <i>Datura suaveolens</i> Humb. & Bonpl. ex Willd.	Solanaceae	THE ANGEL'S TRUMPET, ANGEL'S TEARS DATURA
39)	<b><i>Buddleja asiatica</i> Lour.</b>	Buddlejaceae/ Loganiaceae	WHITE BUTTERFLY BUSH. Vern.: Bhati, Dudleia, Dudhia, Mamia, Neemda
40)	<b><i>Butea monosperma</i> (Lamk.) Grec.</b> / <b><i>Butea monosperma</i> (Lamk.) Kuntze.</b> Syn. <i>Butea frondosa</i> Koenig. Ex Roxb.	Papilionaceae / Fabaceae nom. alt. Leguminosae, subfamily Papilionatae	FLAME OF THE FOREST. Vern.: Dhak, Palah, Palas, Palash
41)	<b><i>Caesalpinia crista</i> L.</b> Syn. <i>Caesalpinia bonducella</i> Flem.	Caesalpiniaceae nom. alt. Leguminosae, subfamily Caesalpinoideae	BONDUC NUT, FEVER NUT. Vern.: Karanju, Kat-karanja, Mechka
42)	<b><i>Caesalpinia decapetala</i> (Roth) Alston.</b> Syn. <i>Caesalpinia sepiaria</i> Roxb.	Caesalpiniaceae nom. alt. Leguminosae, subfamily Caesalpinoideae	BAHAMA SAPPAN, BLACK BONDUC, MYSORE THORN. Vern.: Aila, Arlu, Kando, Relu, Bara-durghar, Kurad
43)	<b><i>Callistemon citrinus</i> (Curtis) Skeels.</b> Syn. <i>Callistemon lanceolatus</i> DC.	Myrtaceae	BOTTLE BRUSH. Vern.: Bottle Brush
44)	<b><i>Calotropis procera</i> (Willd.) R.Br.</b>	Asclepiadaceae	AKUND, GIGANTIC SWALLOW WORT. Vern.: Aak, Ag, Ak, Akada, Madar, Safedak
45)	<b><i>Campsis grandiflora</i> (Thunb.) K. Schum,</b> <i>Tecoma grandiflora</i> Thunb.	Bignoniaceae	TRUMPET CREEPER.
46)	<b><i>Carica papaya</i> L.</b>	Caricaceae	MELON TREE, PAPAW, PAPAYA, PAPETA, PAWPAW, TREE-MELON.

		<b>Vern.:</b> Anda-kharbbuja, Papaya, Papita, Pepiya, Popaiya
47) <i>Carissa congesta</i> Wight. Syn. <i>Carissa carandus</i> L.	Apocynaceae	KARAUNDA. <b>Vern.:</b> Garinga, Gotho, Gurna, Karaunda, Karonda, Karondi, Karunda, Karrona, Kuronda, Timukhia
48) <i>Carissa opaca</i> Stapf. Syn. <i>Carissa spinarum</i> L.	Apocynaceae	KARAUNDA. <b>Vern.:</b> Garaunda, Garna, Gurnu, Karaunda, Karundu, Karunda
49) <i>Caryopteris bicolor</i> (Hardw.) Mabberley. Syn. <i>Caryopteris wallichiana</i> Schauer.	Verbenaceae	<b>Vern.:</b> Chingari
50) <i>Casearia elliptica</i> Willd. syn <i>Casearia tomentosa</i> Roxb.	Samydaceae	<b>Vern.:</b> Chilla, Goela
51) <i>Cassia fistula</i> L.	Caesalpiniaceae <i>nom.</i> alt. Leguminosae, subfamily Caesalpinoideae	CASSIA, DRUMSTICK, GOLDEN SHOWER, INDIAN LABURNUM, PUDDING PIE, PUDDING STICK, PURGING CASSIA. <b>Vern.:</b> Alash, Ali, Alis, Amaltas, Bandarlauri, Girmalah, Kaniar, Karangal, Kiar
52) <i>Cassia siamea</i> Lam. Syn. <i>Cassia florida</i> Vahl.	Caesalpiniaceae <i>nom.</i> alt. Leguminosae, subfamily Caesalpinoideae	<b>Vern.:</b>
53) <i>Cassia sophera</i> L.	Caesalpiniaceae <i>nom.</i> alt. Leguminosae, subfamily Caesalpinoideae.	<b>Vern.:</b> Kasaunda
54) <i>Cassia tora</i> L. Syn. <i>Cassia obtusifolia</i> L.	Caesalpiniaceae <i>nom.</i> alt. Leguminosae, subfamily Caesalpinoideae	FETID CASSIA. <b>Vern.:</b> Ailwan, Chakavat, Chakunda, Pamad, Panevar, Panwar, Pawar, Pawas
55) <i>Cayratia trifolia</i> (L.) Domin. Syn. <i>Cayratia carnosa</i> (Lam.) Gagnep., <i>Cissus carnosa</i> Lam., <i>Vitis carnosa</i> (Lam.) Wall. ex Lawson, <i>Vitis trifolia</i> L., <i>Cayratia carnosa</i> (Wall.) Gagnep.	Vitaceae	FLESHY WILD VINE, FOX GRAPE. <b>Vern.:</b> Amalbel, Gidardrak, Jangli Angur, Kassar, Ramchana
56) <i>Ceiba pentandra</i> (Linn). Gaertn. Syn. <i>Bombax pentandrum</i> L., <i>Eriodendron anfractuosum</i> DC., <i>Eriodendron pentandrum</i> Kunz., <i>Eriodendron oreintale</i> Kurz.	Bombacaceae	KAPOK FLOSS, TURE KAPOK TREE, WHITE COTTON TREE, WHITE SILK COTTON TREE. <b>Vern.:</b> Hattian, Katan, Safedsemal
57) <i>Celastrus paniculatus</i> Willd. Syn. <i>Ceanothus paniculatus</i> Roth.	Celastraceae	BLACK OIL TREE, CLIMBING STAFF PLANT, INTELLECT TREE. <b>Vern.:</b> Malkangni, Sankheran

58)	<i>Celtis australis</i> L.	Ulmaceae	HACKBERRY, NEETLE WOOD. <b>Vern.:</b> Kharak, Khirak, Khirk, Ku, Roku, Batkar
59)	<i>Cestrum nocturnum</i> L.	Solanaceae	LADY OR QUEEN OF THE NIGHT, NIGHT JESSAMINE. <b>Vern.:</b> Rat-ki Rani
60)	<i>Cissampelos pareira</i> L. var. <i>hirsuta</i> (Buch.-Ham ex DC.) Forman, Syn. <i>Cissampelos hirsuta</i> DC., <i>Cissampelos pareiera</i> Sensu and Hook.	Menispermaceae	FALSE PAREIRA BRAVA, ICE VINE. <b>Vern.:</b> Akauadi, Ambashtha, Aviddhakarni, Paathaa, Patindu, Putandu
61)	<i>Citrus limon</i> (L.) Burm.f. Syn. <i>Citrus medica</i> L. var. <i>limonum</i> Hk. f.	Rutaceae	LEMON. <b>Vern.:</b> Baranimbu, Jambira, Paharikaghzi, Paharinimbu
62)	<i>Citrus medica</i> L., <i>Citrus medica</i> var. <i>medica</i> proper of Watt.	Rutaceae	ADAM'S APPLE, CEDRAT, CITRON, MELON LIME, CITRON. <b>Vern.:</b> Bara nimbu, Bijaura, Bijauri, Nimbu, Turanj
63)	<i>Clerodendrum philippinum</i> Schauer. Syn. <i>Clerodendrum fragrans</i> Willd. <b>CLEROENDRUM IS THE CORRECT NAME FOR CLEROENDRON</b>	Verbenaceae	GLORY BOWER, WITCHES TONGUES. <b>Vern.:</b>
64)	<i>Colebrookea oppositifolia</i> Sm.	Lamiaceae nom. alt. Labiate	<b>Vern.:</b> Bindu, Bindu, Doos, Dooshnia, Pansra, Jangli russa
65)	<i>Cordia dichotoma</i> Forster. f. Syn. <i>Cordia myxa</i> auct. pl. (non L., 1753)	Cordiaceae	SEBESTEN PLUM. <b>Vern.:</b> Bhairala, Bhokar, Chhotalaslasa, Chhotalasora, Gondi, Guslasah, Lasora, Lasura, Lessora, Rasalla
66)	<i>Cotoneaster microphyllus</i> Wall. ex Lindl.	Rosaceae	<b>Vern.:</b> Bhedda, Garri, Res
67)	<i>Cryptolepis buchananii</i> Roem. & Schult.	Asclepiadaceae	<b>Vern.:</b> Cheekbel, Dudhli, Karanta
68)	<i>Cupressus sempervirens</i> L.	Cupressaceae	ITALIAN CYPRESS, MEDITERRANEAN CYPRESS, PYRAMIDAL CYPRESS. <b>Vern.:</b> Sara, Saras, Saru
69)	<i>Cycas circinalis</i> L.	Cycadaceae	CROZIER CYCAS. <b>Vern.:</b> Jangli- Madamast-Ka-Phul
70)	<i>Dalbergia sissoo</i> Roxb.	Papilionaceae / Fabaceae nom. alt. Leguminosae, subfamily Papilionatae	INDIAN REDWOOD, SISSOO, SOUTH INDIAN REDWOOD. <b>Vern.:</b> Shisham, Sisam, Sissai, Sissu, Sisu, Siunti, Tahli, Talli
71)	<i>Debregeasia saeneb</i> (Forssk.) Hepper & Wood. Syn. <i>D. hypoleuca</i> Wedd., <i>D. salicifolia</i> (D. Don) Rendle.	Urticaceae	<b>Vern.:</b> Selharu, Pincho, Puruni, Sansaru, Siaru
72)	<i>Dendrophthoe falcata</i> (L.f.) Ettingshausen, <i>Loranthus falcatus</i> L.f., <i>Loranthus longiflorus</i> Desr.	Loranthaceae	<b>Vern.:</b> Amut, Kang, Rin, Banda.
73)	<i>Derris indica</i> Lamk. Syn.	Papilionaceae	PONGAM OIL TREE,

	<i>Pongamia pinnata</i> (L.) Pierre., <i>Pongamia glabra</i> Vent.		KARANJ, INDIAN BEECH. <b>Vern.:</b> Kanja, Karanj, Karanjaka
74)	<i>Desmodium elegans</i> DC. Syn. <i>D. tiliaceifolium</i> (D.Don.) G. Don.	Papilionaceae / Fabaceae nom. alt. Leguminosae, subfamily Papilionatae	<b>Vern.:</b> Chamkat, Chamra, Sambar
75)	<i>Dicliptera bupleuroides</i> Nees. Syn. <i>Dicliptera roxburghiana</i> Nees.	Acanthaceae	<b>Vern.:</b> Kirch, Somni, Lakshmana, Bouna
76)	<i>Dioscorea bulbifera</i> L. Syn. <i>Dioscorea sativa</i> auct. non L.	Dioscoreaceae	BULB BEARING YAM, POTATO YAM, AIR POTATO, DOG YAM. <b>Vern.:</b> Bhirvolikanda, Genth, Genth, Gethi, Karawakand, Karukanda, Ratauloo, Zaminkand
77)	<i>Diospyros cordifolia</i> Roxb.	Ebenaceae	EBONY. <b>Vern.:</b> Bistendu, Dakanan, Kalarukha, Kalatendu, Kendu, Lohari, Seda
78)	<i>Diospyros kaki</i> Thunb.	Ebenaceae	PERSIMON, DIVINE PEAR, EBONY, ORIANTAL PERSIMON, JAPANESE PERSIMON, CHINESE FIG. <b>Vern.:</b> Japaniphal, Halwa-tendu
79)	<i>Diospyros montana</i> Roxb.	Ebenaceae	MOUNTAIN PERSIMON. <b>Vern.:</b> Bistendu, Hirek, Kalichal, Kendu, Tendu
80)	<i>Diplocyclos palmatus</i> (L.) Jeffery. Syn. <i>Bryonopsis laciniosa</i> L.	Cucurbitaceae	<b>Vern.:</b> Bankakri, Gargumaru, Ishwaralingi, Shivalingi
81)	<i>Dodonaea viscosa</i> (L.) auct. non Jacquin, <i>Dodonaea angustifolia</i> L.f.	Sapindaceae	<b>Vern.:</b> Aliar, Anartik, Banmendu, Mendar, Mendru, Mendu, Maindu, Mendra, Mirandu, Pipali, Sanatta, Santha, Sonalta, Walaytinahndi
82)	<i>Duranta repens</i> L. Syn. <i>Duranta plumeri</i> Jacq.	Verbenaceae	CREEPING SKIN FLOWERS, GOLDEN DEW DROP, PIGEON BERRY, SKY FLOWER. <b>Vern.:</b> Daranta, Vriti Kanta
83)	<i>Ehretia laevis</i> Roxb.	Ehretiaceae	<b>Vern.:</b> Chamror, Chamrody, Datranga, Darar, Guaon, Koda, Sakar
84)	<i>Elaeocarpus ganitrus</i> Roxb.	Tiliaceae	Rudrak, Rudraksch, Rudrakash
85)	<i>Embelia officinalis</i> Gaertn., <i>Phyllanthus emblica</i> L.	Euphorbiaceae	EMBLIC MYROBALAN TREE. <b>Vern.:</b> Amalaci, Amla, Amlika, Anola, Anuli, Anvula, Anvurah, Anwerd, Aonla, Aungra, Aunra, Daula
86)	<i>Engelhardtia colebrookiana</i> Lindl.	Juglandaceae	<b>Vern.:</b> Gobarmowa, Samma, Timarrakh
87)	<i>Eriobotrya japonica</i> (Thunb.) Lindley.	Rosaceae	CHINESE MEDLAR, JAPAN MEDLAR, JAPAN QUINCE, LOQUAT. <b>Vern.:</b> Lokat, Logat, Lakkote

88)	<i>Erythrina suberosa</i> Roxb. var. <i>glabrescens</i> Prain. Syn. <i>Erythrina glabrescens</i> (Prain.) Parker.	Papilionaceae / Fabaceae nom. alt. Leguminosae, subfamily Papilionatae	CORAL TREE. Vern.: Dauldhak, Dhauldhak, Madara, Nasut, Pangra, Pariara, Peryara, Rowanra, Rungra
89)	<i>Eucalyptus globulus</i> Labillardiere .	Myrtaceae	BLUE GUM, TASMANIAN BLUE GUM EUCALYPT. Vern.: Safeda
90)	<i>Eucalyptus tereticornis</i> Sm. Syn. <i>Eucalyptus umbellata</i> Domin	Myrtaceae	EUCALYPT, HORNE CAP, POPLAR BOX. Vern.: Eucalypt, Safeda, Sapheda.
91)	<i>Euphorbia pulcherrima</i> Willd. ex Klotzsch., <i>Euphorbia pulcherrima</i> R. Graham.	Euphorbiaceae	POINSETTIA. Vern.:
92)	<i>Feronia limonia</i> (L.) Swingle. Syn. <i>Feronia elephantum</i> Correa.	Rutaceae	ELEPHANT APPLE, WOOD APPLE. Vern.: Barnah, Bilin, Kait, Kavitha
93)	<i>Ficus arnottiana</i> Miq. Syn. <i>Urostigma arnottiana</i> Miq.	Moraceae	Kapitanah, Paraspipal, Parisah, Plaksha
94)	<i>Ficus auriculata</i> L. Syn. <i>Ficus roxburghii</i> Wall. ex Mig.	Moraceae	EVE'S APRON. Vern.: Trimal, Tiamle, Tiamli, Tusi, Trimbul, Timla, Tirmal, Tremal, Daduri, Trimal, Trimil
95)	<i>Ficus bengalensis</i> L.	Moraceae	BANYAN TREE. Vern.: Bad, Bar, Bargad, Bargat, Ber, Bera, Bohar, Bohir, Bor
96)	<i>Ficus carica</i> L.	Moraceae	THE FIG TREE, COMMON FIG. Vern.: Anjir, Dagla
97)	<i>Ficus elastica</i> Roxb.	Moraceae	ASSAM RUBBER, INDIAN RUBBER. INDIAN CAOUTCHOUC TREE. Vern.: Rubber plant
98)	<i>Ficus hispida</i> L.	Moraceae	WILD FIG, DEVIL FIG, CROW FIG. Vern.: Debrya, Gobla, Kagsha, Katgularia, Kathumaea, Koneadum-bar, Rambel, Rumbal, Totmila
99)	<i>Ficus palmata</i> Forsk.	Moraceae	Vern.: Anjiri, Bedu, Dagla, Khemri, Phagura, Phegra, Phagwara
100)	<i>Ficus pumila</i> L.	Moraceae	Vern.:
101)			
102)	<i>Ficus religiosa</i> L.	Moraceae	PEEPAL, PEEPUL TREE, PIPAL TREE, SACRED FIG. Vern.: Bhor, Pipal, Pipili
103)	<i>Ficus rumphii</i> Blume.	Moraceae	Vern.: Paplakh, Pilkhan, Pipal, Pipul, Plakhan
104)	<i>Ficus semicordata</i> Buch-Ham. ex J.E. Smith. Syn. <i>Ficus cunia</i> Buch.-Ham. Ex Roxb.	Moraceae	INDIAN FIG. Vern.: Jharphali, Khain, Kharapatra, Khenan
105)	<i>Ficus virens</i> Dyrand. Syn. <i>Ficus infectoria</i> Roxb.	Moraceae	Vern.: Kahimal, Kaim, Keol, Khabar, Pakar, Pakri, Pakur, Pilkhan, Ramanjir
106)	<i>Flacourтия xylosma</i> XX.	Flacourtiaceae	Vern.: Kangu

107) <i>Glochidion velutinum</i> Wight.	Euphorbiaceae	<b>Vern.:</b> Matmarda
108) <i>Gmelina arborea</i> Roxb.	Verbenaceae	CANDAHAR TREE, CASHMERE TREE, COOMB TEAK, WHITE TEAK.. <b>Vern.:</b> Ban, Dharya, Gambhar, Gumhar, Kambhari, Kumhar, Kunubar, Sewan
109) <i>Grevillea robusta</i> A. Cunningham <i>ex Roxb.</i>	Proteaceae	SILVER OAK, SILKY OAK. <b>Vern.:</b> Grevillea
110) <i>Grewia asiatica</i> L. Syn. <i>Grewia vestita</i> Wall., <i>Grewia subinaequalis</i> DC., <i>Grewia hainesiana</i> Hole.	Tiliaceae	<b>Vern.:</b> Biuli, Dhamin, Phalsa
111) <i>Grewia optiva</i> J.R. Drummond <i>ex Burret.</i> Syn. <i>Grewia oppositifolia</i> Buch.-Ham. ex D. Don.	Tiliaceae	<b>Vern.:</b> Beul, Biul, Dhaman
112) <i>Hamelia patens</i> Jacquin. Syn. <i>Hamelia erecta</i> Jacq.	Rubiaceae	SCARLET BUSH
113) <i>Helicteres isora</i> L.	Sterculiaceae	EAST INDIAN SCREW TREE. <b>Vern.:</b> Bhendu , Jonkaphal , Maror-Phali
114) <i>Holoptelea integrifolia</i> Planch. Syn. <i>Ulmus integrifolia</i> Roxb.	Ulmaceae	INDIAN ELM, KANJU, ENTIRE-LEAVED ELM TREE, JUNGLE CORK TREE, SOUTH INIDAN ELM TREE. <b>Vern.:</b> Banchilla, Chilmil, Dhamna, Perdeshi dala, Samma
115) <i>Hibiscus rosa-sinensis</i> L.	Malvaceae	SHOE FLOWER. <b>Vern.:</b> Jasum, Jasut
116) <i>Hibiscus syriacus</i> L.	Malvaceae	ROSE OF SHARON, SHRUBBY ALTHAEA. <b>Vern.:</b> Swetjava, Gurhal
117) <i>Holarrhena pubescens</i> (Buch.-Ham.) Wall <i>ex G.Don.</i> Syn. <i>Holarrhena antidyseentrica</i> (L.) Wall. <i>ex A.DC.</i>	Apocynaceae	CONESSI OR TELLICHERY BARK. <b>Vern.:</b> Dudhi, Cursi, Inderjao, Karchi, Karra, Keor, Keor, Kora, Kuar kureya, Kuchi, Kura
118) <i>Hymenodictyon excelsum</i> (Roxb.) Wall. Syn. <i>Hymenodictyon orixense</i> (Roxb.) Mabb.	Rubiaceae	BINDAL COUCH TREE. <b>Vern.:</b> Bandaru, Barthoa, Barthu, Kala bachnag, Padthua, Phaldu, Phargur, Potur
119) <i>Indigofera cassioides</i> Rottl. <i>ex DC.</i> Syn. <i>Indigofera pulchella</i> Roxb.	Papilionaceae / Fabaceae nom. alt. Leguminosae, subfamily Papilionatae	<b>Vern.:</b> Kathi, Hakna, Nil, Sakena
120) <i>Ipomoea carnea</i> Jacquin. Syn. <i>Ipomoea fistulosa</i> Martius.	Convolvulaceae	<b>Vern.:</b> Aak, Beshram Booti
121) <i>Jacaranda acutifolia</i> Humb. & Bonpl. Syn. <i>Jacaranda mimosifolia</i> D. Don, <i>Jacaranda ovalifolia</i> R.Br.	Bignoniaceae	JACARANDA. <b>Vern.:</b> Jacaranda
122) <i>Jasminum grandiflorum</i> L.	Oleaceae	THE CATALONIAN JASMINE, SPANISH OR COMMON JASMINE . <b>Vern.:</b>

		Chambel, Chambeli, Chameli, Jati, Juhi
123) <i>Jasminum humile</i> L.	Oleaceae	YELLOW JASMINE, ITALIAN JASMINE, NEPAL JASMINE OR GOLDEN JASMINE. <b>Vern.:</b> Banmalti, Malto, Peelajui, Peeli chameli, Pitmalti; Hempushpika, Kanak champa
124) <i>Jasminum mesneyi</i> Hance, <i>Jasminum primulinum</i> Hemsl ex Parker.	Oleaceae	PRIMROSE JASMINE, JASMIN, JASMINE or THE JESSAMIN. <b>Vern.:</b>
125) <i>Jasminum multiflorum</i> (Burm. f.) Andrews, <i>Jasminum pubescens</i> (Retz.) Willd.	Oleaceae	CHINESE JASMINE, COMMON JASMINE, DOWNY JASMINE, MUSK JASMINE. <b>Vern.:</b> Chameli, Kundphul, Kunda, Kundo
126) <i>Jatropha curcas</i> L.	Euphorbiaceae	BARBADOS NUT, PHYSIC NUT, POISON NUT, PURGING NUT. <b>Vern.:</b> Bagberenda, Bagbherenda, Bhernda, Jablota, Jabblota, Jamlota, Jangliarandi, Japhrota, Jatropha, Paharierand, Rattanajot, Safedarand, Safedind
127) <i>Juglans regia</i> L.	Juglandaceae	COMMON WALNUT, PERSIAN WALNUT, EUROPIAN WALNUT. <b>Vern.:</b> Akhrot, Akrut, Akhor, Khor, Krot
128) <i>Kydia calycina</i> Roxb.	Malvaceae	PULA. <b>Vern.:</b> Choupulta, Pathra, Pola, Polao, Poola, Pula
129) <i>Lagerstroemia indica</i> L.	Lythraceae	CRAPE, COMMON CREPE MYRTLE, MYRTLE, CHINA PRIVET, INDIAN LILAC. <b>Vern.:</b> Phurush, Saoni, Telingachina
130) <i>Lannea cormandelica</i> (Houtt.) Merrill. Syn. <i>Lannea grandis</i> Engl., <i>Odina wodier</i> Roxb.	Anacardiaceae	JHINGAN, WODIER. <b>Vern.:</b> Jhingan, Kaimil, Kehmbel, Mohin, Salambra
131) <i>Lantana camara</i> L. Syn. <i>Lantana</i> <i>aculeata</i> L.	Verbenaceae	LANTANA WEED, WILD SAGE. <b>Vern.:</b> Kabar, Kurighas, Pardesi-Butti, Phulna
132) <i>Leptodermis lanceolata</i> Wall.	Rubiaceae	<b>Vern.:</b> Padarh, Padari, Padera
133) <i>Leucaena leucocephala</i> (Lam.) de Wit. Syn. <i>Mimosa leucocephala</i> Lam., <i>Leucaena glauca</i> Benth.	Mimosaceae nom. alt. Leguminosae subfamily Mimosoideae	. THE LEAD TREE, WHITE POPINAC, HORSE TAMARIND. <b>Vern.:</b> Lasunia, Subabul, Vilaitibaval
134) <i>Maesa montana</i> A. DC. Syn. <i>Maesa indica</i> Wall. ex. Clarke., <i>Maesa indica</i> (Roxb.) A. DC.	Mysinaceae	MOUNTAIN MAESA. <b>Vern.:</b> Kramighana phol, Gadchiana
135) <i>Mallotus philippensis</i> (Lam.) Muell.-Arg.	Euphorbiaceae	MONKEY FACE TREE. <b>Vern.:</b> Kaamal, Kaamla, Kamal, Kamala, Kambhal, Kambila, Kamela, Kamila,

		Kamud, Rachini, Raini, Rauni, Rohni, Roini, Roli, Rora, Ruin, Rulu
136) <i>Mangifera indica</i> L.	Anacardiaceae	MANGO. Vern.: Aamb, Aam, Am, Amb
137) <i>Melia azedarach</i> L.	Meliaceae	BASTARD CEDAR, BEAD TREE, INDIAN LILAC, PERSIAN LILAC, SYRIA BERRY TREE. Vern.: Bakain, Bakarja, Bankayan, Betain, Deikna, Derk, Dreka, Bevu, Chik bevu, Heb-bevu
138) <i>Mimosa himalayana</i> Gamble. Syn. <i>Mimosa rubicaulis</i> auct non L.	Mimosaceae nom. alt. Leguminosae subfamily Mimoideae	Vern.: Agla, Aila, Alral, Durghari, Eil, Shiah kanta, Turgari
139) <i>Mirabilis jalapa</i> L.	Nyctaginaceae	FOUR O'CLK PLANT/FLOWER, MARVEL OF PERU. Vern.: Gulabbas, Gulabash, Guleaabbas
140) <i>Mitragyna parvifolia</i> (Roxb.) Korth. Syn. <i>Stephegyne parvifolia</i> Korth.	Rubiaceae	Vern.: Kadassa, Kaddam, Kaim, Kallam, Kalmi, Kangi, Keim, Perunya
141) <i>Moringa concanensis</i> Nimmo.	Moringaceae	Vern.: Rasunana, Sajana
142) <i>Moringa oleifera</i> Lam. Syn. <i>Moringa pterygosperma</i> Gaertn.	Moringaceae	DRUMSTICK TREE, HORSE-RADISH TREE. Vern.: Mungna, Rasunana, Sainjna, Shajna, Soanjana
143) <i>Morus alba</i> L.	Moraceae	MULBERRY, WHITE MULBERRY. Vern.: Chinni, Chun, Sahtoot, Tul, Tulklu, Tunt, Toot, Tut, Tutri
144) <i>Morus nigra</i> L.	Moraceae	BLACK MULBERRY. Vern.: Shah-tut
145) <i>Morus serrata</i> Roxb.	Moraceae	HIMALAYAN MULBERRY. Vern.: Toot, Kimu, Himu, Karum, Karttut, Tutti
146) <i>Murraya koenigii</i> (L.) Spreng.	Rutaceae	CURRY LEAF TREE. Vern.: Bursunga, Dangela, Gandhela, Gandhla, Harri, Nimb, Katnim
147) <i>Murraya paniculata</i> (L.) Jack., <i>Murraya exotica</i> L.	Rutaceae	ORANGE JESSAMINE. Vern.: Banipali, Bibsar, Juti, Kamini, Marchula, Pipli
148) <i>Neolitsea chinensis</i> (Lam.) Chun. Syn. <i>Litsea chinensis</i> Lam., <i>Litsea sebifera</i> pers., <i>Litsea glutinosa</i> (Lour.) Robinson., <i>Sebifera glutinosa</i> Lour.	Lauraceae	COMMON TALLOW LAUREL. Vern.: Garbijaur, Maidalakri, Medh, Menda, Rihan, Singrauf
149) <i>Nerium indicum</i> Mill. Syn. <i>Nerium odoratum</i> Soland.	Apocynaceae	INDIAN OLEANDER, ROSE BAY, SWEET-SCENTED OLEANDER. Vern.: Ghanira, Kaner, Karber, Kuruvira
150) <i>Nyctanthes arbor-tristis</i> L.	Nyctanthaceae	CORAL JASMINE, INDIAN MOURNER, NIGHT-FLOWERING JASMINE,

		NIGHT JASMINE, SORROWFUL TREE, WEEPING TREE, TREE OF SADNESS. <b>Vern.:</b> Binari, Dalachi, Har, Harsinghar, Karasli, Koori, Kuri, Saherwa, Saihari, Seoli, Siharu
151) <i>Olea ferruginea</i> Royle. Syn. <i>Olea cuspidata</i> Wall. ex D.Don,	Oleaceae	INDIAN OLIVE. <b>Vern.:</b> Bairbanj, Kahu, Kan, Kao
152) <i>Opuntia elatior</i> Miller .Syn. <i>Opuntia dillenii acut pl.</i> (non Ker-Gausler) Haworth.	Cactaceae	PRICKLY PEAR, SLIPPER THORN, SNAKE HOOD. <b>Vern.:</b> Chhittarthor, Haththathoria, Nagphana, Nagphani
153) <i>Opuntia monacantha</i> (Willd.) Haw. Syn. <i>Cactus monacantha</i> Willd.; <i>Opuntia vulgaris</i> auct. pl. non Mill.	Cactaceae	PRICKLY PEAR, SLIPPER THORN. <b>Vern.:</b> Chhittarthor, Haththathoria, Nagphana, Nagphani
154) <i>Opuntia stricta</i> (Haw.) Haw var. <i>dillenii</i> (Ker-Gawl.) Benson. Syn. <i>O. dillenii</i> (Ker-Gawl.) Haw, <i>Opuntia dillenii</i> (Ker-Gawl.) Haw.	Cactaceae	PRICKLY PEAR, SLIPPER THORN. <b>Vern.:</b> Chhittarthor, Haththathoria, Nagphana, Nagphani
155) <i>Oroxylum indicum</i> (L.) Ventenate.	Bignoniaceae	INDIAN TRUMPET FLOWER. <b>Vern.:</b> Arlu, Assarsauna, Kharkath, Miringa, Mulin, Pharkhat, Pharrai, Pharri, Sauna, Sori, Shyona, Tatpalaanga, Taatpalaanga, Tatmorang, Tatpalang, Ullu
156) <i>Ougeinia oujenensis</i> (Roxb.) Hochr. Syn. <i>Ougeinia dalbergioides</i> Benth.	Papilionaceae / Fabaceae nom. alt. Leguminosae, subfamily Papilionatae	SANDAN. <b>Vern.:</b> Panan, Panjan, Sanan, Sandan, Tinsa
157) <i>Phoenix humilis</i> Royle.	Arecaceae nom. alt. Palmae	DWARF DATE PALM, HILL DATE PALM. <b>Vern.:</b> Khajur, Khajuri, Thankal
158) <i>Pinus roxburghii</i> Sargent. Syn. <i>Pinus longifolia</i> Roxb.	Pinaceae	CHIR PINE, LONG-LEAVED PINE, THREE- LEAVED PINE, HIMAYALAN LONG NEEDLE PINE. <b>Vern.:</b> Chil, Chir, Dhupasarala, Salla, Sarol, Sirli
159) <i>Pistacia chinensis</i> Bunge subsp. <i>integerrima</i> (J.L. Stewart) Rech.f. Syn. <i>Pistacia integerrima</i> J.L. Stewart, <i>Pistacia chinensis</i> Bunge var. <i>integerrima</i> (J.L. Stewart) Zohari.	Anacardiaceae	<b>Vern.:</b> Kakarsinghi, Kakar, Kakra, Kakri, Kakrain, Kakrhain, Kangar

160) <i>Pithecellobium dulce</i> (Roxb.) Benth.	Mimosaceae <i>nom. alt.</i> Leguminosae subfamily Mimosoideae	APE'S EAR RING, DECCANY BABOOL, MADRAS THORN, MANILA TAMARIND, SOAP BARK TREE. <b>Vern.:</b> Dakhanibabul, Vilaitiyim Vilatiimbi, Jangli-jalebi, Jungle-jalebi
161) <i>Pogostemon benghalense</i> (Burm.f.) Kuntze. Syn. <i>Pogostemon plectranthoides</i> Desfontaines.	Lamiaceae <i>nom. alt.</i> Labiateae	CEYLON LEADWORT, WHITE FLOWERED LEADWORT. <b>Vern.:</b> Bakoha, Barmera, Juilata, Jui, Lujra, Pangla, Parmaydiya, Rudera
162) <i>Polyalthia longifolia</i> Benth & Hook.f.	Annonaceae	CEMETERY TREE, INDIAN FIR, MAST TREE. <b>Vern.:</b> Ashoka, Asok, Debdari, Deodar, Devadar, Devadar, Devidari
163) <i>Populus deltoids</i> Sarg.	Salicaceae	EASTERN COTTON WOOD, NECKLACE POPULAR. <b>Vern.:</b> Popular
164) <i>Premna latifolia</i> Roxb.	Verbenaceae	<b>Vern.:</b> Agniun, Bakar, Bakarcha, Basot, Basota, Jhatela, Tumari
165) <i>Prinsepia utilis</i> Royle.	Rosaceae	HIMALAYAN PRINSEPIA. <b>Vern.:</b> Arund, Bekhal, Bekkli, Bhekhali, Bhekha, Bhenkal, Garandu, Gurinda, Kangroh, Kharngura, Phulwara, Tatua Bekkra, Bhekal, Cherara, Dhatila, Jhatela Karanga, Krungora, Mhat
166) <i>Prosopis chilensis</i> (Molina) Stuntz. Syn. <i>Prosopis juliflora</i> DC, <i>Prosopis juliflora</i> (Swartz.) DC, <i>Mimosa juliflora</i> Swartz.	Mimosaceae	ALGAROBA, MESQUITE. <b>Vern.:</b> HINDI: Kabuli kikkar, Kikar, Vilayati babul, Vilayati khejra, Vilayati kikkar
167) <i>Prunus armeniaca</i> L.	Rosaceae	COMMON APRICOT. <b>Vern.:</b> Khubani, Khurmani, Hari, Sari, Chuli, Chilu, Chulu, Chuari, Jaldaru, Zardalu
168) <i>Prunus avium</i> L.	Rosaceae	WILD CHERRY TREE. <b>Vern.:</b> Gilas, Krusbal
169) <i>Prunus domestica</i> L. Syn. <i>Prunus communis</i> Huds.	Rosaceae	COMMON PLUM, BULLACE, PRUNE, ALUCHA. <b>Vern.:</b> Alubukhara, Alucha, Palum
170) <i>Prunus persica</i> (L.) Batsch.	Rosaceae	PEACH TREE. <b>Vern.:</b> Aaru, Aor, Aru, Arui, Beimi, Bem, Bembi, Chimmanu, Katherti, Rek, Sunnu, Tsunu
171) <i>Psidium guajava</i> L.	Myrtaceae	GUAVA TREE. <b>Vern.:</b> Am, Amrud, Amrut, Marud, Safedsafari
172) <i>Pterospermum acerifolium</i> Willd. Syn. <i>Pterospermum aceroides</i> Wall. <i>Pentapetes acerifolia</i> L.	Sterculiaceae	HATHIPAILA. <b>Vern.:</b> Kanakchampa, Kaniar, Kathachampa, Lakshmanpatta, Muskunda
173) <i>Pueraria tuberosa</i> DC.	Papilionaceae /	INDIAN KUDZU. <b>Vern.:</b>

	Fabaceae <i>nom. alt.</i> Leguminosae, subfamily Papilionatae	Bedarikand, Bilaikand, Bankumra, Bharda, Sural, Siali, Salod
174) <i>Punica granatum</i> L.	Punicaceae	POMEGRANATE. <b>Vern.:</b> Anar, Daadu, Daran, Dadin, Daru, Dhalim, Naar
175) <i>Pyrus communis</i> L.	Rosaceae	PEAR TREE, WILD PEAR. <b>Vern.:</b> Batang, Batak, Charkeint, Li, Nak, Nashpati, Naspati, Sunkeint, Tang, Tangi
176) <i>Pyrus pashia</i> Buch.-Ham. ex D.Don.	Rosaceae	<b>Vern.:</b> Batangi, Kainth, Kaith, Kaenth, Keitha, Kiat, Ku, Mehal, Mol, Shegal, Tang
177) <i>Randia dumetorum</i> (Retz.) Poir. <i>Syn. Randia spinosa</i> (Thunb.) Poir, <i>Randia brandisii</i> Gamble, <i>Randia longispina</i> Wight & Arn., non Blume, <i>Xeromphis spinosa</i> (Thunb.) Keay.	Rubiaceae	COMMON EMETIC NUT/TREE. <b>Vern.:</b> Arar, Karhar, Mainphal, Madana, Rada, Rara
178) <i>Rhamnus purpureus</i> Edgew. Syn. <i>Rhamnus purpurea</i> Edgew.	Rhamnaceae	PURPLE BUCKTHORN. <b>Vern.:</b> Bakauro, Batsinjal, Chaterni, Galedru, Kari, Karn, Kunji, Mimarari, Payan, Rangak, Rari, Tadru, Tandra, Tunani, Tundhi, Zanani
179) <i>Ricinus communis</i> L.	Euphorbiaceae	CASTOR, CASTOR BEAN, CASTOR SEED, CASTOR-OIL PLANT. <b>Vern.:</b> Arand, Arend, Arandi, Castor-bean, Eran, Erand, Eranda, Erandi, Rind
180) <i>Robinia pseudoacacia</i> L.	Papilionaceae / Fabaceae <i>nom. alt.</i> Leguminosae, subfamily Papilionatae	ROBINIA, BLACK LOCUST OF AMERICA, FALSE ACACIA OF ENGLAND. <b>Vern.:</b> Robinnia, Rubinia.
181) <i>Rosa brunonii</i> Lindl. Syn. <i>Rosa moschata</i> auct. non Mill.	Rosaceae	HIMALAYAN MUSK ROSE. <b>Vern.:</b> Kubje, Kuj, Kuja, Kujain, Kuje, Kujen, Karer, Kuij, Kunja, Kwiala
182) <i>Rosa macrophylla</i> Lindl.	Rosaceae	WILD ROSE. <b>Vern.:</b> Bangulab, Gulab, Tumbi, Shingari, Breri, Yal, Trind.
183) <i>Rubus biflorus</i> Buch.-Ham. Ex Sm.	Rosaceae	<b>Vern.:</b> Akhe, Akhreri, Ankren, Bassandur, Batang, Bumbal, Dher, Hissar, Insra, Kantanch, Karer, Khariara, Kalkalin
184) <i>Rubus ellipticus</i> J.E. Smith.	Rosaceae	HIMALAYAN RASPBERRY. <b>Vern.:</b> Achu, Akhe, Aakhey, Akhi, Akkhi, Anjir, Ankri, Anchhu, Guracha, Hinure, Hinsalu, Hishala, Kunachi, Lal anchu, Pukana
185) <i>Rubus niveus</i> Thunb.	Rosaceae	MAHABALESHWAR

		RASPBERRY, MYSORE RASPBERRY. <b>Vern.:</b> Akha, Gunacha, Guracha, Huftoo, Kala hinsalar, Kale ankhey, Kandiara, Kale hinure, Kalianchhi, Kharmach, Manzakhta, Oche, Pagunai, Pakana, Pakani, Surgauch, Tulanch
186) <i>Rumex hastatus</i> D. Don.	Polygonaceae	<b>Vern.:</b> Amlora, Katambal, Khalimal, Khatmitha, Khattimol, Malora
187) <i>Salix tetrasperma</i> Roxb.	Salicaceae	INDIAN WILLOW. <b>Vern.:</b> Bedleila Beuns, Bod, Bent, Bilsa, Biuns, Bhinsu, Bida, Bis, Bain, Beis, Bitsa, Bakshel, Jalmala, Laila, Mogsher, Safedar
188) <i>Sambucus nigra</i> L.	Sambucaceae	BLACK, COMMON OR EUROPEAN ELDER, BOUR TREE, BOX TREE, ELDER BERRY. <b>Vern.:</b>
189) <i>Sapium insigne</i> (Royle) Benth. ex. Hook. f. Syn. <i>Falconeria insignis</i> Royle, <i>Falconeria wallichiana</i> Royle.	Euphorbiaceae	<b>Vern.:</b> Balodhar, Bilodar, Biloja, Khhina, Khiria, Khirindra, Kendwa, Khirun, Dudla, Hure, Kaduru, Garbasula, Tillai, Garpashola, Khirni, Khiran, Karalla, Lendwa
190) <i>Solanum erianthum</i> D. Don. Syn. <i>Solanum verbascifolium</i> auct. non L.	Solanaceae	POTATO TREE. <b>Vern.:</b> Ara, Kala-mewa, Kharawari, Radakh
191) <i>Solanum nigrum</i> L.	Solanaceae	BLACK NIGHT SHADE. <b>Vern.:</b> Kambei, Kachmach, Riaungi (fruit), Mako, Makoi
192) <i>Solanum virginianum</i> L. Syn. <i>Solanum surattense</i> Burm. f., <i>Solanum xanthocarpum</i> Sch. & Wendl.	Solanaceae	WILD EGG PLANT, YELLOW-BERRIED NIGHTSHADE. <b>Vern.:</b> Choti pindi, Kantkari, Kateli, Laghu-Kantkari, Berkatali, Katai, Kateli, Ringani. Bat kateya, Chhoti mauhari, Harnauli, Kandiari, Kandyali, Katela, Kharian maraghune, Mahori, Mamoli, Pilak, Ringni, Warumba
193) <i>Spermadictyon suaveolens</i> Roxb. Syn. <i>Hamiltonia suaveolens</i> Roxb.	Rubiaceae	<b>Vern.:</b> Mahabal, Patiur
194) <i>Spiraea canescens</i> D. Don.	Rosaceae	<b>Vern.:</b> Bhutti, Chakoi, Chaku, Katamatiyalna, Mairab, Takoi, Taku
195) <i>Spondias pinnata</i> (L.f.) Kung. Syn. <i>Mangifera pinnata</i> L.f.; <i>Spondias mangifera</i> Willd.	Anacardiaceae	BILE TREE, INDIAN HOG PLU, TRAVELLER'S DELIGHT, WILD MANGO. <b>Vern.:</b> Amara, Ambodha, Ambra, Amra, Buara.

196) <i>Sterculia villosa Roxb. ex Smith.</i>	Sterculiaceae	<b>Vern.:</b> Godgudala, Liander, Udal, Udar
197) <i>Syzygium caryophyllum (L.) Alston.</i> Syn. <i>Eugenia caryophyllata</i> White.	Myrtaceae	XX. <b>Vern.:</b> Jaman, Khataman
198) <i>Syzygium cumini (L.) Skeels.</i> Syn. <i>Eugenia jambolana</i> Lam., <i>Eugenia cumini</i> Druce.	Myrtaceae	BLACK PLUM, JAMBOL, JAMBOLANA, JAMBUL, JAVA PLUM, JAMAN. <b>Vern.:</b> Bahojaman, Jam, Jaman, Jaman, Jamun, Jamniphalani, Kalajaman, Pairman, Phalanda, Phalinda, Pharenda, Phaunda
199) <i>Tabernaemontana divaricata (L.) R. Br. ex. Roem. &amp; Schult.</i> Syn. <i>Nerium divaricatum</i> L., <i>Ervatamia divaricata</i> L., <i>Tabernaemontana coronaria</i> Br., <i>Nerium coronarium</i> Facq., <i>Ervatamia coronaria</i> (Jacq.) Stapf.	Apocynaceae	CRAPE-JASMINE, EAST INDIAN ROSEBAY, WAX FLOWER. <b>Vern.:</b> Chamela, Chandni, Chandui, Sugandabala, Taggai, Taggar
200) <i>Tecoma stans (L.) Juss. Ex HBK.</i>	Bignoniaceae	YELLOW ELDER, YELLOW-BELLS. <b>Vern.:</b> Kareneklar, Sonapatti, Tecoma.
201) <i>Tectona grandis L.f.</i> (Introduced in Bilaspur)	Verbenaceae	INDIAN OAK, SHIP TREE, TEAK. <b>Vern.:</b> Sagun, Sagun ,Sagwan, Sakhu, Según
202) <i>Terminalia alata Heyne ex Roth.</i> Syn. <i>Terminalia tomentosa</i> (DC) Wight & Arn, <i>Terminalia crenulata</i> Roth.; <i>Terminalia elliptica</i> Willd.; <i>Pentaptera tomentosa</i> Roxb. ex DC.	Combretaceae	BLACK MURDAH. <b>Vern.:</b> Asan, Alson, Sain, Saj
203) <i>Terminalia arjuna (Roxb. ex DC.) Wight &amp; Arn.</i> Syn. <i>Terminalia arjuna</i> Bedd., <i>Pentaptera arjuna</i> Roxb. ex DC., <i>Pentaptera glabra</i> Roxb., <i>Terminalia glabra</i> Wight & Ann. l.c.	Combretaceae	ARJUN, WHITE MURDAH. <b>Vern.:</b> Anjan, Anjani, Arjan, Arjun, Arjuna, Jamla, Kahu, Kahua, Kaugach, Khawa, Koha, Kowa
204) <i>Terminalia bellerica (Gaertner.) Roxb.</i>	Combretaceae	BASTARD MYROBALAN, BEDDA NUTS, BELLERIC MYROBALAN. <b>Vern.:</b> Bahera, Beda, Behara, Behra, Bheda, Bhaira, Bhairach, Bharla, Buhura, Bulla, Sagona
205) <i>Terminalia chebula Retz.</i>	Combretaceae	BLACK MYROBALAN, CHEBULIC MYROBALAN. <b>Vern.:</b> Har, Hardi, Harad, Harar, Harra, Harrar
206) <i>Thysanolaena maxima (Roxb.) O. Kuntze.</i> Syn. <i>Agrostis maxima</i> Roxb., <i>Thysanolaena agrostis</i> Nees, <i>Thysanolaena procera</i> Mez.	Poaceae nom. alt. Gramineae	BOUQUET-GRASS, BROOM-GRASS, TIGER-GRASS. <b>Vern.:</b> Kuchi, Pirlu
207) <i>Tinospora cordifolia (Willd.) Miers.</i> Syn. <i>Menispermum cordifolium</i> Willd.	Menispermaceae	GILOY, GULANCHА TINOSPORA. <b>Vern.:</b> Amrita, Giloye, Gulancha, Gulj-gloe, Guljia, Jiwantika, Gulbel,

		Guloh, Gurcha
208) <i>Toona ciliata</i> M. Roemer. Syn. <i>Cedrella toona</i> Roxb.	Meliaceae	RED CEDAR, HAPPY TREE, TOON, CEDAR, MOULMEIN, SANDAL NEEM, SINGAPORE CEDAR, INDIAN MAHOGANY. Vern.: Lim, Lud, Mahalimbu, Mahanim, Tun, Tuna, Tunni, Tunkajhar
209) <i>Trema orientalis</i> (L.) Blume. Syn. <i>Celtis orientalis</i> L., <i>Sponia orientalis</i> Planch., <i>Sponia wightii</i> Planch	Ulmaceae	CHARCOAL TREE, INDIAN NETTLE TREE. Vern.: Jivani, Jivanti, Khasar Kura, Khasar Kuri, Singar
210) <i>Trema politoria</i> (Planch.) Blume. Syn.: <i>Sponia politoria</i> Planch.	Ulmaceae	Vern.: Banharria, Khagshi, Khardol, Khasar Kura, Khasar Kuri, Kuri, Singar
211) <i>Urtica ardens</i> Link. Syn. <i>Urtica parviflora</i> Roxb., <i>Urtica mairei</i> Lev.	Urticaceae	COMMON OR STINGING NETTLE. Vern.: Berian, Bichu, Bichhu-butti, Kaniyali, Shishona
212) <i>Urnea lobata</i> L. Syn. <i>Urnea hirusta</i> Guill. & Perr.	Malvaceae	CAESARWEED Vern.: Bachita, Unga, Lapetua
213) <i>Urtica dioica</i> L.	Urticaceae	COMMON NETTLE, GREATER NETTLE, NAUGHTY MAN'S PLATHING NETTLE, SCADDIE, STINGING NETTLE, STINGY NETTLE, TINGING NETTLE. Vern.: Bichu-butti
214) <i>Viburnum cotinifolium</i> D. Don.	Caprifoliaceae	Vern.: Bhutni, Kimota, Banguch, Bankunch, Bathor, Guch, Jawa, Jiawa, Kalam, Katonda, Katonde, Khimor, Khatip, Marghwakwa, Papat Kalam, Rajab, Rajal, Richhuklu, Richhabi kilmich, Sussu, Taliana, Tumma, Tustus
215) <i>Vitex negundo</i> L.	Verbenaceae	NIGANDI, COMMON CHASTE TREE, INDIAN PRIVET. Vern.: Bana, Banna, Lakki, Lakki-gida, Lakkle, Mewri, Nengar, Nirgandil, Niragundi, Nisinda, Pani-ki-sambhalu, Sambhal, Sambhalu, Shambhalu-beg, Sanbhalu, Shamba, Shawali, Shivari, Shawali, Shiwari, Sindhuca, Vana, Vanha
216) <i>Wattakaka volubilis</i> L.f. Stapf. Syn. <i>Dregea volubilis</i> Benth.; <i>Marsdenia volubilis</i> T. Cooke .	Asclepiadaceae	SNEEZING SILK COTTON. Vern.: Nakchhikni, Hemajivanti
217) <i>Wendlandia heynei</i> (Roem. & Schult.) Santapau et Merchant. Syn. <i>Wendlandia exserta</i> (Roxb.)	Rubiaceae	Vern.: Birsa, Chaulai, Chila, Chilkiya, Pansara, Pausara, Pudhara, Rataela, Tila, Tilki

DC.			
218)	<b><i>Woodfordia fruiticosa</i> (L.) Kurz.</b> Syn. <i>Woodfordia floribunda</i> Salisb.	Lythraceae	FIRE-FLAME BUSH, SHIRABJITEA, RED BELL BUSH, WOODFORDIA. <b>Vern.:</b> Dhai, Dhai-ki-phool, Dhataki, Dhataki-pushpha, Dhamin, Dhawi, Dhauri, Dhal, Dawa, Dawi, Dha, Dhai, Dhau, Daula, Dhaura, Dhawai, Dhawla, Dhewtie, Santha, Thawi, Guldaur, Tawi
219)	<b><i>Wrightia arborea</i> (Dennst.) Mabberley.</b> Syn. <i>Wrightia tomentosa</i> Roemer & Schultes, <i>Nerium tomentosum</i> (Roem. & Schult.) Roxb., <i>Periploca arborea</i> Dennst.	Apocynaceae	Daira, Dharauli, Dudhi, Keor, Khalawa, Kilawa
220)	<b><i>Xanthium indicum</i></b> Koenig. Syn. <i>Xanthium strumarium</i> L.	Asteraceae nom. alt Compositae	BURWEED, CLOTBUR, COCKLEBUR. <b>Vern.:</b> Adhasisi, Banokra, Chhotadatura, Chhotagokhru, Gokhru, Wangen Jsura, Lake-natheri, Shankhahuli
221)	<b><i>Yucca gloriosa</i> L.</b> Syn. <i>Yucca recurvifolia</i> Salish.	Liliaceae	SPANISH DAGGER-PLANT, ADAM'S NEEDLE. <b>Vern.:</b> Arrarot ghas
222)	<b><i>Zanthoxylum armatum</i> DC.</b> Syn. <i>Zanthoxylum alatum</i> Roxb.	Rutaceae	TOOTHACHE TREE, WINGLEAF PRICKLY ASH. <b>Vern.:</b> Timbar, Timru, Darmar, Nipalidhanya, Tejbal, Tejphal, Tezmal, Timbur, Timur, Tirmira, Tirmara, Timru, Tumru, Tun. Timbri, Trimir
223)	<b><i>Ziziphus hysudrica</i> (Edgew.) Hole.</b> Syn. <i>Ziziphus jujuba</i> Lumk. var. <i>hysudricus</i> . Edgew.	Rhamnaceae	<b>Vern.:</b> Beri
224)	<b><i>Zizyphus mauritiana</i> Lam.</b> Syn. <i>Zizyphus jujuba</i> (L.) Gaertn., <i>Rhamnus jujube</i> L.	Rhamnaceae	CHINESE DATE, INDIAN CHERRY, INDIAN ZUZUBE, INDIAN PLUM, JUJUBE. <b>Vern.:</b> Ajapriya, Baeri, Baradi, Ber, Beri
225)	<b><i>Zizyphus nummularia</i> (Burm.f.) Wight &amp; Arn.</b> Syn. <i>Rhamnus nummularia</i> Burm.f., <i>Zizyphus rotundifolia</i> Lam.	Rhamnaceae	WILD JUJUBE. <b>Vern.:</b> Bal, Baradi, Ber, Birar, Jangra, Jhahrberi, Jhadiaber, Kokni-ber, Mala-ber, Mallah
226)	<b><i>Zizyphus xylopyra</i> Willd.</b> Syn. <i>Ziziphus xylocarpus</i> Willd.; <i>Ziziphus glaberrima</i> Santapau.	Rhamnaceae	Ghont, Gontber, Gote, Kakor, Kat-ber

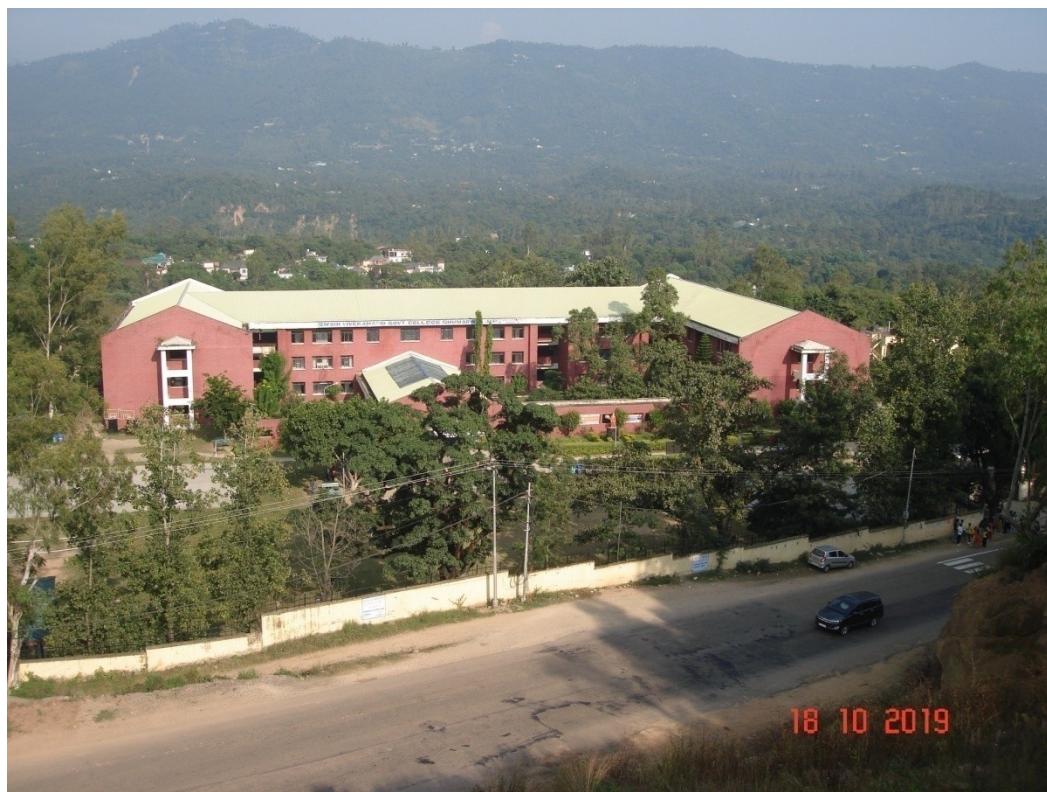






Figure 1 Overview of Lush Green Campus

## **GREEN PRACTICES**

Waste management is one of the burning problems not only in India but also in the world. Hence it is necessary to use the things properly and manage them cautiously. The main purpose behind this audit is to analyze the best practices of solid, liquid waste management. Similarly, to make aware about their hazardous effects and to create awareness among the students, teachers about minimum use, reuse and recycle of the waste.

Solid waste generation and its management is a burning issue in current days. The rate of generation of solid waste is very high and yet we do not have adequate technology to manage the generated waste.

Unscientific handling of solid waste can create threats to public health and environmental safety issues. Thus, it is necessary to manage the solid waste properly to reduce the load on waste management system.

The purpose of this audit is to find out the current management practice of solid waste generation in the campus. This report will help for further solid waste management and to go for green campus development.

- **Solid waste management**

- **Use/Development of clean technologies:**

Use of incinerators is a major step towards the use of clean technology.

The institution has installed these machines for the disposal of non biodegradable waste. Sanitary Vending Machine (SVM) and Sanitary Disposable Machine (SDM) are installed in toilets as well as in girls' hostel.

- **Use of organic composting techniques for biodegradable wastes, waste minimization and waste exchange practices:**

Biodegradable garden waste conversion pit is formed and after proper degradation it is used as manure for college garden.

Biodegradable waste from college canteen and hostel is picked up by local vendor for further use in his piggery.

Non-biodegradable waste is collected in dustbins installed at various locations outside and Inside College building and further sent to ACC Barmana for its proper recycling through municipality.

- **Liquid waste management**

- **Reduction in generation of Effluents, Emissions and Hazardous/Solid waste:**

The institution does not produce any effluents, emissions or solid waste which violates the environmental ethics.

- Our institution provides best academic environment which sensitizes everyone associated regarding the need to maintain a healthy ecological balance in their respective regions.

- Runoff rainwater is properly managed through under-ground soak-pits.

- **Hazardous waste management**

- Plastic bags have already been banned in the state by the Government of Himachal Pradesh and the ban is properly enforced within the college premises.

Plastic waste is collected in the dustbins and disposed separately through the Municipal authorities.

- The College is trying to minimize the use of hazardous and toxic chemicals. The college is encouraging the use of safer alternatives.

- Dilute solutions are being used in quantitative analysis, which again minimises the use of chemicals.

- In Science laboratories, experiments are carried out with all precautions.

- Biological waste from life sciences laboratories are made harmless through autoclaving and then disposed.

- All glassware and microbial cultures used are first sterilised by autoclaving and then the cultures are discarded properly.

- **E-Waste management:**

- Reuse is the most eco-friendly and cost effective method for e-waste disposal.

- The College maintains all its computer peripherals, all old systems are stored in safe place within the campus and are sold to the recycling agencies after fulfilling codal formalities.
- Defective systems are upgraded by replacing their parts.

Awareness is also generated among the students by organizing the exhibitions and programs on waste management.

#### WASTE MANAGEMENT INITIATIVES



**Figure 2 Weed eradication programme**



Figure 3 Swachata hi Sewa Abhiyan



Figure 4 Biodegradable pit



Figure 5 Incinerator installed inside the girls washroom



Figure 6 Dustbins installed in the campus



Figure 7 Plantation drive in the campus

## सार-संक्षेप

### स्वयंसेवियों ने संवारा घुमारवीं कॉलेज परिसर



घुमारवीं कॉलेज में सफाई अभियान में भाग लेने के बाद स्वयंसेवी ● जागरण

घुमारवीं : राजकीय महाविद्यालय

घुमारवीं के एनएसएस स्वयंसेवियों ने

कॉलेज परिसर की सफाई की। प्रो.

राजेन्द्र कुमार शर्मा व प्रो. मनोरमा चौहान

ने स्वयं सेवियों को पौधारोपण करने को

कहा। स्वयंसेवियों ने कॉलेज परिसर

में क्यारिया बनाकर फूल लगाए। इस

दौरान 75 स्वयंसेवी मीजूद थे। संस

Figure 8 Reflection of our efforts in print media

## **ENERGY AUDIT**

A Solar panel (off-grid) has been installed in the campus with capacity of 15 KW. which is being used as a renewable source of energy to generate power.

- Date of Installation of Solar Plant: 07-09-2016
- Units Produced: 1,56,921
- Rate per Unit =Rs. 4.65
- Amount Saved= Rs. 7,29,682.65

### **Total annual power requirement (in KWH)**

- Total Annual Power Requirement met out by H.P State Electricity department =28,199 KWH
- Annual Power requirement met out of Solar Panel and Grid = 52,085 KWH
- Total (Annual) Power Consumption =  $28,199 + 52085 = 80,284$  KWH
- Cost of one unit in H.P.= Rs 4.65

Money Saved Per Annum =  $52,085 \times 4.65 = \text{Rs. } 2,42,195.25$

The solar power plant is providing uninterrupted power supply for the institution. During the time bound process of admission, examination for filling and examination process the energy received from the plant helps for the completion of above processes within the given time framework. This plant also caters the power requirements during different co-curricular activities like inter college events, cultural activities, different day celebrations and Annual Prize distribution functions of the college.

Besides this power requirements met through 100 LED bulbs purchased from Energy Efficiency Services Ltd, Noida, U.P. amounting Rs 10,000/- help in reducing power consumption. College had also installed 9 solar street lights in the campus.

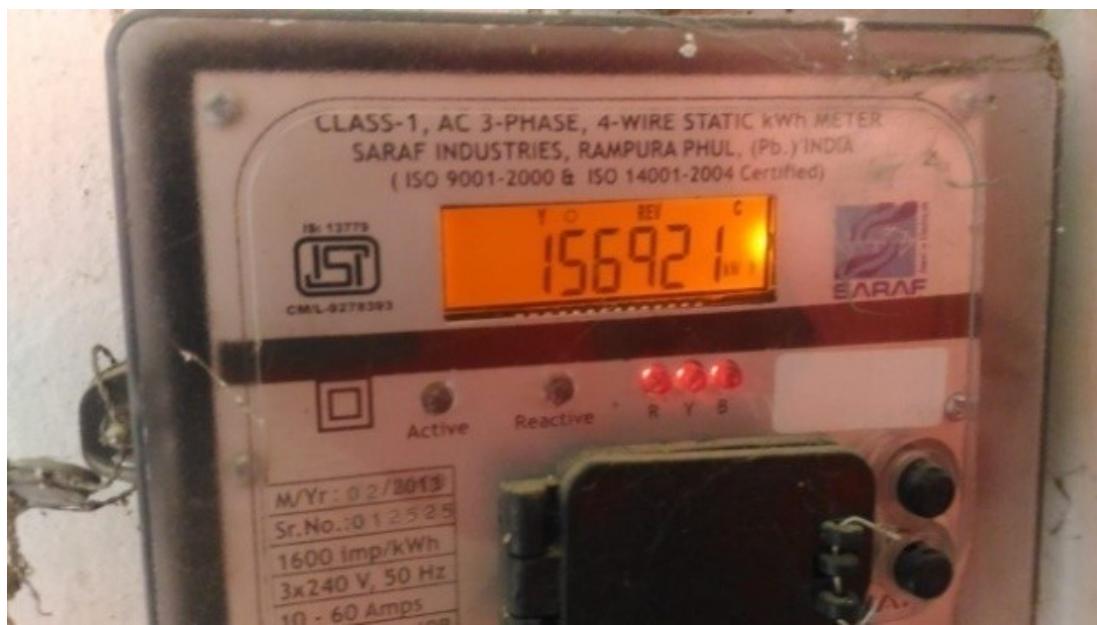


Figure 9 Solar light meter reflecting units produced

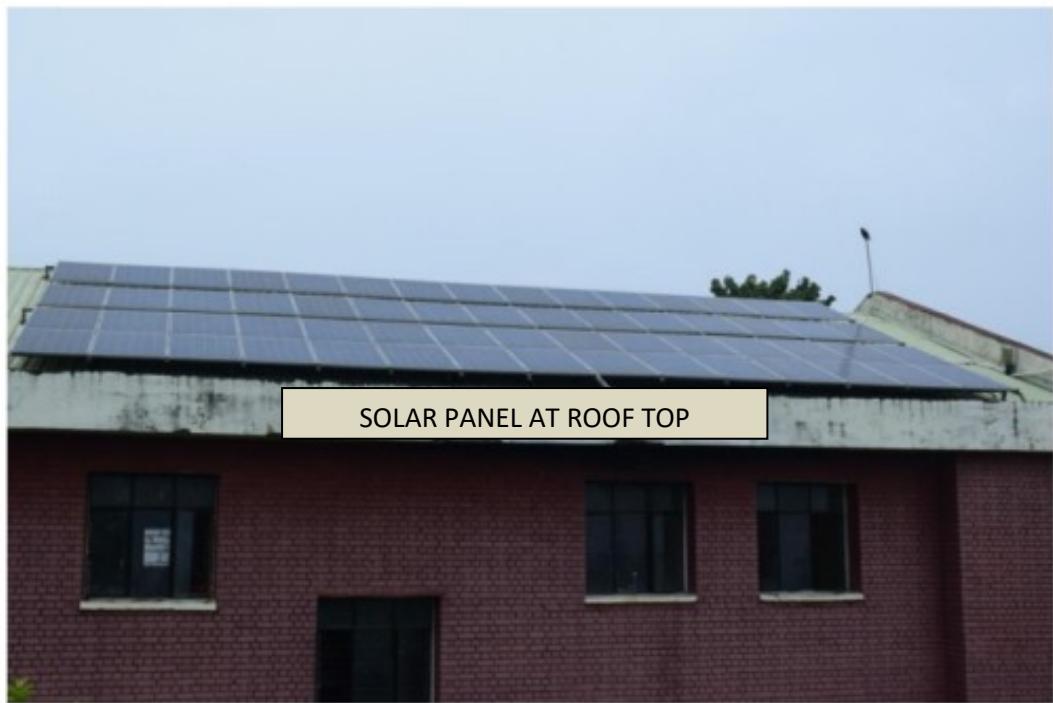


Figure 10 Solar panels installed on the roof of college building



Figure 11 Solar Power House

STATE II  
OFFICE OF THE PRINCIPAL  
**Swami Vivekanand Govt. College Ghumarwin,**  
Distt. Bilaspur (H.P.)

Voucher No. (10)	to Voucher No. ....		
Cheque No. 9.01.13	Dated... 28/01/16		
Amounting to Rs. 2.92.50/- only			
has been drafted in the name of Sh./M/s.....for making			
the payments of the undersigned vouchers which may kindly be signed			
or directed for payments:- <b>RUSAIGRAHNT</b>			
Vr.No.	Description	Cheque No.	Amount
	Yourself (Solar Power Plant dated 3/1/16)		2.92.50/-
Rs.		Grand Total	Rs. 2,92.50/-

**20 RENOVATION (नवीकरण)**


Prepared by: .....  
Checked and Verified for Rs. 2,92.50/- *[Signature]*

Bursar S.V.G.C. Ghumarwin Principal  
S.V.G.C. Ghumarwin  
Distt. Bilaspur (H.P.) Treasurer PTA  
S.V.G.C. Ghumarwin  
Distt. Bilaspur (H.P.)

Figure 12 Report showing expenses incurred on installation of solar plant

## RAIN WATER HARVESTING AND ITS USES

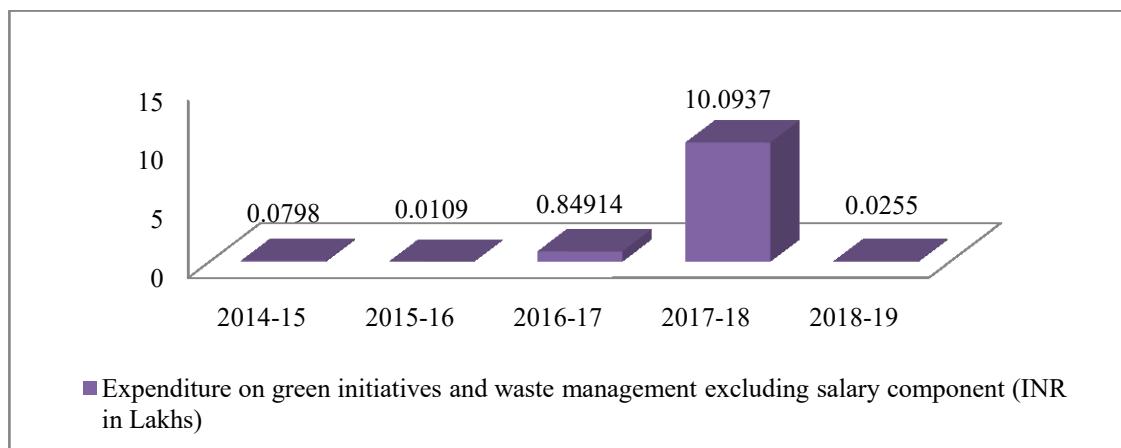
- Swami Vivekanand Government College Ghumarwin has big building and its rain water harvested in under-ground rain water structure constructed in the year 2018.
- It has been constructed by spending an amount of ₹ 8.312 lac through I&P.H. department (Figure 12).
- Roof top rain water is properly preserved in this under-ground tank with a capacity of about 100000 litres.
- The stored water is used for gardening purposes and also in the toilets. We have lush green campus having medicinal and various ornamental plants, this rain water harvesting tank caters the need of these plants especially in the days of water scarcity.
- The institution adopts sprinkler system to water its lawns and garden and the supply to these sprinklers is from the rain water harvesting tank.
- Water from the tank is uplifted with the help of solar light to the storage tank having the capacity 5000 litre placed at the roof-top of the college from where it is supplied to the toilets and college lawn.
- This tank not only caters our water needs but saves our valuable soil from erosion.



Figure 13 Underground roof top rain water harvesting tank

**TABLE 3: EXPENDITURE STATEMENT ON GREEN INITIATIVES AND WASTE MANAGEMENT**

<b>Year</b>	<b>Expenditure on green initiatives and waste management excluding salary component (INR in Lakhs)</b>
2014-15	0.0798
2015-16	0.0109
2016-17	0.84914
2017-18	10.0937
2018-19	0.0255



The college is following green practices in letter and spirit as per resources available for the sustainable clean and green environment.