

GREEN AUDIT REPORT 2021-2022



**SWAMI VIVEKANAND GOVERNMENT
COLLEGE GHUMARWIN
DISTRICT-BILASPUR (H.P.)**

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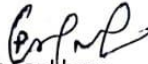
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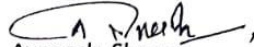
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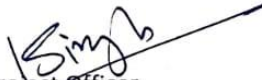

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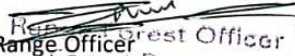

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ABOUT GREEN AUDIT

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. Energy audit helps us to know how much electricity is consumed within the Swami Vivekanand Government College Ghumarwin, which will have great impact on environment.

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 3 km 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 stream was started.

In 1998 Science and Commerce streams 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 and vocational course BBA was started. At present college is imparting postgraduate degree in Political Science, Commerce, Physics, Chemistry, Mathematics, Botany, and Zoology.

At present the college caters to the academic requirements of more than 3038 students of Ghumarwin and its surroundings. Presently as many as 45 teaching and 16 non-teaching members are providing their services in the campus.

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
		Commerce Block
		Faculty Rooms
		Library and E-library
		Laboratories
		Class Rooms
		Multipurpose Hall
		Washrooms
		Store
		Caretaker Room
2.	RECREATIONAL AREA	College Canteen
		College Indoor Gym
		Outdoor Courts/Rings
		Playground
		Streets
3.	RESIDENTIAL AREA	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 $31^{\circ}27'39.1''\text{N}$ $76^{\circ}41'33.2''\text{E}$ 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 derives, organized by the various clubs & societies, which become an integral part of the college activity and development. The vegetation displays a seemingly endless variety of shapes, forms, texture, vibrant colors hence improving the aesthetic value of college campus. 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 vital role in maintaining the environment of the entire Kalri village and its surrounding areas.

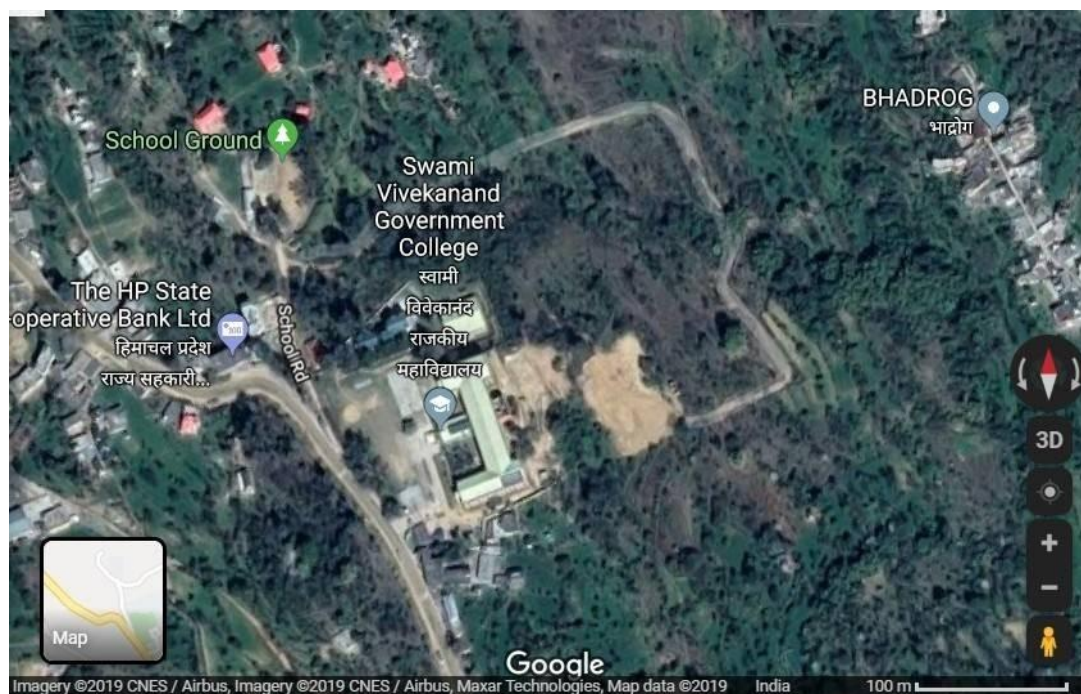


Fig: 1. Satellite view of Swami Vivekanand Government College Ghumarwin (Source: Google Map).

TABLE II: FLORA OF SWAMI VIVEKANAND GOVERNMENT 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. Vern.: Gunchi, Gunja, Raktan, Rati
2) <i>Acacia caesia</i> Wight & Arn. Syn. <i>Acacia torta</i> Craib.	Mimosaceae <i>nom.</i> <i>alt.</i> Leguminosae subfamily Mimosoideae	Vern.: 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. Vern.: Katha, Khair, Khairbabul
4) <i>Acacia leucophloea</i> Willd. Syn. <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. . Vern.: Reur, Safed kikar, Safed babul,

5)	<i>Achyranthes aspera</i> L. var. <i>aspera</i> L.	Amaranthaceae	PRICKLY CHAFF FLOWER. Vern.: Apang, Chichra, Chirchira, Chirchitta, Latjira, Puthkanda, Umblokando
6)	<i>Achyranthes bidentata</i> Blume.	Amaranthaceae	Vern.: Puthkanda, Umblokando, Umblakanta
7)	<i>Adhatoda zeylanica</i> Medik. Syn. <i>Adhatoda vasica</i> Nees., <i>Justicia adhatoda</i> L.	Acanthaceae	MALABARNUT, VASAKA. Vern.: Adalsa, Adarsa, Adulasa, Adulaso, Arusa, Arusha, Bansa, 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. Vern.: Bael, Bel, Bili, Bil, Bill, Sirphal
9)	<i>Agave sisalana</i> Perr., Syn. <i>Agave rigida</i> Mill. Var. <i>sisalana</i> Engelm.	Agavaceae	AGAVE, SISAL HEMP. Vern.: Duarya, Kohar-patha, Ramban
10)	<i>Albizia chinensis</i> (Ozb.) Merr. Syn. <i>Albizia sipulata</i> (Roxb.) Boiv.	Mimosaceae <i>nom. alt.</i> Leguminosae subfamily Mimosoideae	Vern.: 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. Vern.: 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. Vern.: 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. Vern.: Ghiguvara, Ghikumari, Gvarapatha, Kumari, Kuvarapatha
14)	<i>Andrachne cordifolia</i> Muell.	Euphorbiaceae	Vern.: 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> Labiatae	Vern.: Pakumber
16)	<i>Anogeissus latifolia</i> (Roxb. ex DC.) Bedd.	Combretaceae	AXLE-WOOD. Vern.: Chhal, Challya, Dhao, Dhawa, Dhaura, Taw
17)	<i>Anthocephalus chinensis</i> (Lamk.) A Rich ex Walp. Syn. <i>Anthocephalus cadamba</i> (Roxb.)	Rubiaceae	Vern.: 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, Baranal, Bansi, Nar, Naria, Nal
20) <i>Asparagus adscendens</i> Roxb.	Liliaceae	ASPARGUS FERN. Vern.: Hajarmuli, Khairuwa, Satavar, Safedmusli
21) <i>Asparagus racemosus</i> Willd.	Liliaceae	WILD ASPARGUS. Vern.: Bojhidan, Sadabori, Sansbai, Satawar, 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.	Caesalpinioideae nom. alt. Leguminosae, subfamily Caesalpinioideae	PURPLE BAUHINIA. Vern.: Gairal, Kaliar, Kandan, Karalya, Kaniar, Khairwal, Koilari, Koinar, Sona
25) <i>Bauhinia racemosa</i> Lam.	Caesalpinioideae nom. alt. Leguminosae, subfamily Caesalpinioideae	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.	Caesalpinioideae nom. alt. Leguminosae, subfamily Caesalpinioideae	CAMEL'S FOOT CLIMBER. Vern.: Maljan, Taur, Tor, Torrya
27) <i>Bauhinia variegata</i> L.	Caesalpinioideae nom. alt. Leguminosae, subfamily Caesalpinioideae	BUDHIST'S BAUHINIA, GERANIUM TREE. Vern.: Barial, Gurial, Gwiar, Kachnar, Kandan, Kaniar, Karyala, Khairwal, Khwairaal, Koliar, Kural, Padrian
28) <i>Berberis lycium</i> Royle	Berberidaceae	Vern.: Kashmal, Kasmale
29) <i>Berberis vulgaris</i> L.	Berberidaceae	BARBERRY, BARBERRY, 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) <i>Boehmeria rugulora</i> Weddell.	Urticaceae	Vern.: Genti, Genti, Singar
33) <i>Bombax ceiba</i> L. Syn. <i>Bombax malabaricum</i> DC., <i>Salmalia malabarica</i> (DC.) Schott & Endl.	Bombacaceae	COTTON TREE, SILK COTTON TREE, RED SILK COTTON TREE. Vern.: Kantisemal, Pagun, Ragatsemal, Ragatsembal, Semal, Semul, Semur, Shimbai, Simal, Simbal, Somr
34) <i>Bougainvillea glabra</i> Choisy.	Nyctaginaceae	BOUGAINVILLEA. Vern.: Bougainvillea
35) <i>Bougainvillea spectabilis</i> Willd.	Nyctaginaceae	BOUGAINVILLEA. Vern.: Bougainvillea
36) <i>Bridelia retusa</i> Spreng. Syn. <i>Clutia retusa</i> L.	Euphorbiaceae	KASI. Vern.: Ekdania, Gajh, Gauli, Khaja
37) <i>Broussonetia papyrifera</i> Vent.	Moraceae	PAPER MULBERRY. Vern.: Jangali toot, Japanitoot, Kaagda, Papiath
38) <i>Brugmansia suaveolens</i> (Humb. & Bonpl. Ex Willd.) Berch. & Presl. Syn. <i>Datura suaveolens</i> Humb. & Bonpl. ex Willd.	Solanaceae	THE ANGEL'S TRUMPET, ANGEL'S TEARS DATURA
39) <i>Buddleja asiatica</i> Lour.	Buddlejaceae/ Loganiaceae	WHITE BUTTERFLY BUSH. Vern.: Bhati, Dudleia, Dudhia, Mamia, Neemda
40) <i>Butea monosperma</i> (Lamk.) Grec. / <i>Butea monosperma</i> (Lamk.) Kuntze. Syn. <i>Butea frondosa</i> Koenig. Ex Roxb.	Papilionaceae / Fabaceae <i>nom. alt.</i> Leguminosae, subfamily Papilionatae	FLAME OF THE FOREST. Vern.: Dhak, Palah, Palas, Palash
41) <i>Caesalpinia crista</i> L. Syn. <i>Caesalpinia bonducella</i> Flem.	Caesalpinaceae <i>nom. alt.</i> Leguminosae, subfamily Caesalpinioideae	BONDUC NUT, FEVER NUT. Vern.: Karanju, Kat-karanja, Mechka
42) <i>Caesalpinia decapetala</i> (Roth) Alston. Syn. <i>Caesalpinia sepiaria</i> Roxb.	Caesalpinaceae <i>nom. alt.</i> Leguminosae, subfamily Caesalpinioideae	BAHAMA SAPPAN, BLACK BONDUC, MYSORE THORN. Vern.: Aila, Arlu, Kando, Relu, Bara-durghar, Kurad
43) <i>Callistemon citrinus</i> (Curtis) Skeels. Syn. <i>Callistemon lanceolatus</i> DC.	Myrtaceae	BOTTLE BRUSH. Vern.: Bottle Brush
44) <i>Calotropis procera</i> (Willd.) R.Br.	Asclepiadaceae	AKUND, GIGANTIC SWALLOW WORT. Vern.: Aak, Ag, Ak, Akada, Madar, Safedak
45) <i>Campsis grandiflora</i> (Thunb.) K. Schum, <i>Tecoma grandiflora</i> Thunb.	Bignoniaceae	TRUMPET CREEPER.
46) <i>Carica papaya</i> L.	Caricaceae	MELON TREE, PAPAWE, PAPAYA, PAPETA, PAWPAW, TREE-MELON.

		Vern.: Anda-kharbbuja, Papaya, Papita, Pepiya, Popaiya
47) <i>Carissa congesta</i> Wight. Syn. <i>Carissa carandus</i> L.	Apocynaceae	KARAUNDA. Vern.: Garinga, Gotho, Gurna, Karaunda, Karonda, Karondi, Karunda, Karrona, Kuronda, Timukhia
48) <i>Carissa opaca</i> Stapf. Syn. <i>Carissa spinarum</i> L.	Apocynaceae	KARAUNDA. Vern.: Garaunda, Garna, Gurnu, Karaunda, Karundu, Karunda
49) <i>Caryopteris bicolor</i> (Hardw.) Mabberley. Syn. <i>Caryopteris wallichiana</i> Schauer.	Verbenaceae	Vern.: Chingari
50) <i>Casearia elliptica</i> Willd. syn <i>Casearia tomentosa</i> Roxb.	Samydaceae	Vern.: Chilla, Goela
51) <i>Cassia fistula</i> L.	Caesalpiniaceae <i>nom. alt.</i> Leguminosae, subfamily Caesalpinioideae	CASSIA, DRUMSTICK, GOLDEN SHOWER, INDIAN LABURNUM, PUDDING PIE, PUDDING STICK, PURGING CASSIA. Vern.: Alash, Ali, Alis, Amaltas, Bandarlauri, Girmalah, Kaniar, Karangal, Kiar
52) <i>Cassia siamea</i> Lam. Syn. <i>Cassia florida</i> Vahl.	Caesalpiniaceae <i>nom. alt.</i> Leguminosae, subfamily Caesalpinioideae	Vern.:
53) <i>Cassia sophera</i> L.	Caesalpiniaceae <i>nom. alt.</i> Leguminosae, subfamily Caesalpinioideae.	Vern.: Kasaunda
54) <i>Cassia tora</i> L. Syn. <i>Cassia obtusifolia</i> L.	Caesalpiniaceae <i>nom. alt.</i> Leguminosae, subfamily Caesalpinioideae	FETID CASSIA. Vern.: 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. Vern.: 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. Vern.: Hattian, Katan, Safedsemal
57) <i>Celastrus paniculatus</i> Willd. Syn. <i>Ceanothus paniculatus</i> Roth.	Celastraceae	BLACK OIL TREE, CLIMBING STAFF PLANT, INTELLECT TREE. Vern.: Malkangni, Sankheran

58) <i>Celtis australis</i> L.	Ulmaceae	HACKBERRY, NEETLE WOOD. Vern.: Kharak, Khirak, Khirk, Ku, Roku, Batkar
59) <i>Cestrum nocturnum</i> L.	Solanaceae	LADY OR QUEEN OF THE NIGHT, NIGHT JESSAMINE. Vern.: 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> Sensus and Hook.	Menispermaceae	FALSE PAREIRA BRAVA, ICE VINE. Vern.: Akauadi, Ambashthaa, 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. Vern.: Baranimbu, Jambira, Paharikaghzi, Paharanimbu
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. Vern.: Bara nimbu, Bijaura, Bijauri, Nimbu, Turanj
63) <i>Clerodendrum philippinum</i> Schauer. Syn. <i>Clerodendrum fragrans</i> Willd. CLERODENDRUM IS THE CORRECT NAME FOR CLERODENDRON	Verbenaceae	GLORY BOWER, WITCHES TONGUES. Vern.:
64) <i>Colebrookea oppositifolia</i> Sm.	Lamiaceae <i>nom. alt.</i> Labiatae	Vern.: Binda, 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. Vern.: Bhairala, Bhokar, Chhotalaslasa, Chhotalasora, Gondi, Guslasah, Lasora, Lasura, Lessora, Rasalla
66) <i>Cotoneaster microphyllus</i> Wall. ex Lindl.	Rosaceae	Vern.: Bhedda, Garri, Res
67) <i>Cryptolepis buchananii</i> Roem. & Schult.	Asclepiadaceae	Vern.: Cheekbel, Dudhli, Karanta
68) <i>Cupressus sempervirens</i> L.	Cupressaceae	ITALIAN CYPRESS, MEDITERRANEAN CYPRESS, PYRAMIDAL CYPRESS. Vern.: Sara, Saras, Saru
69) <i>Cycas circinnalis</i> L.	Cycadaceae	CROZIER CYCAS. Vern.: Jangli- Madanmast-Ka-Phul
70) <i>Dalbergia sissoo</i> Roxb.	Papilionaceae / Fabaceae <i>nom. alt.</i> Leguminosae, subfamily Papilionatae	INDIAN REDWOOD, SISSOO, SOUTH INDIAN REDWOOD. Vern.: 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	Vern.: 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	Vern.: 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. Vern.: Kanja, Karanj, Karanjaka
74)	<i>Desmodium elegans</i> DC. Syn. <i>D. tiliaefolium</i> (D. Don.) G. Don.	Papilionaceae / Fabaceae <i>nom. alt.</i> Leguminosae, subfamily Papilionatae	Vern.: Chamkat, Chamra, Sambar
75)	<i>Dicliptera bupleuroides</i> Nees. Syn. <i>Dicliptera roxburghiana</i> Nees.	Acanthaceae	Vern.: 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. Vern.: Bhirvolikanda, Genth, Genth, Gethi, Karawakand, Karukanda, Ratauloo, Zaminkand
77)	<i>Diospyros cordifolia</i> Roxb.	Ebenaceae	EBONY. Vern.: Bistendu, Dakanan, Kalarukha, Kalatendu, Kendu, Lohari, Seda
78)	<i>Diospyros kaki</i> Thunb.	Ebenaceae	PERSIMON, DIVINE PEAR, EBONY, ORIENTAL PERSIMON, JAPANESE PERSIMON, CHINESE FIG. Vern.: Japaniphal, Halwa-tendu
79)	<i>Diospyros montana</i> Roxb.	Ebenaceae	MOUNTAIN PERSIMON. Vern.: Bistendu, Hirek, Kalichal, Kendu, Tendu
80)	<i>Diplocyclos palmatus</i> (L.) Jeffery. Syn. <i>Bryonopsis laciniosa</i> L.	Cucurbitaceae	Vern.: Bankakri, Gargumaru, Ishwaralingi, Shivalingi
81)	<i>Dodonaea viscosa</i> (L.) auct. non Jacquim , <i>Dodonaea angustifolia</i> L.f.	Sapindaceae	Vern.: 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. Vern.: Daranta, Vriti Kanta
83)	<i>Ehretia laevis</i> Roxb.	Ehretiaceae	Vern.: Chamror, Chamrolya, Datranga, Darar, Guaon, Koda, Sakar
84)	<i>Elaceocarpus ganitrus</i> Roxb.	Tiliaceae	Rudrak, Rudraksch, Rudrakash
85)	<i>Emblica officinalis</i> Gaertn., <i>Phyllanthus emblica</i> L.	Euphorbiaceae	EMBLIC MYROBALAN TREE. Vern.: Amalaci, Amla, Amlika, Anola, Anuli, Anvula, Anvurah, Anwerd, Aonla, Aungra, Aunra, Daula
86)	<i>Engelhardtia colebrookiana</i> Lindl.	Juglandaceae	Vern.: Gobarmowa, Samma, Timarrakh
87)	<i>Eriobotrya japonica</i> (Thunb.) Lindley.	Rosaceae	CHINESE MEDLAR, JAPAN MEDLAR, JAPAN QUINCE, LOQUAT. Vern.: Lokat, Logat, Lakkote

88) <i>Erythrina suberosa</i> Roxb. var. <i>glabrescens</i> Prain. Syn. <i>Erythrina glabrescens</i> (Prain.) Parker.	Papilionaceae / Fabaceae <i>nom. alt.</i> 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.: Trimbal, Tiamle. Tiamli, Tusi, Trimbul, Timla, Tirmal, Tremal, Daduri, Trimal, Trimi
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.:
102) <i>Ficus religiosa</i> L.	Moraceae	PEEPAL, PEEPUL TREE, PIPAL TREE, SACRED FIG. Vern.: Bhor, Pipal, Pipli
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>Flacourtia xylosma</i> XX.	Flacourtiaceae	Vern.: Kangu

107) <i>Glochidion velutinum</i> Wight.	Euphorbiaceae	Vern.: Matmarda
108) <i>Gmelina arborea</i> Roxb.	Verbenaceae	CANDAHAR TREE, CASHMERE TREE, COOMB TEAK, WHITE TEAK.. Vern.: Ban, Dharya, Gambhar, Gumhar, Kambhari, Kumhar, Kunubar, Sewan
109) <i>Grevillea robusta</i> A. Cunningham ex Roxb.	Proteaceae	SILVER OAK, SILKY OAK. Vern.: Grevillea
110) <i>Grewia asiatica</i> L. Syn. <i>Grewia vestita</i> Wall., <i>Grewia subinaequalis</i> DC., <i>Grewia hainesiana</i> Hole.	Tiliaceae	Vern.: Biuli, Dhamin, Phalsa
111) <i>Grewia optiva</i> J.R. Drummond ex Burret. Syn. <i>Grewia oppositifolia</i> Buch-Ham. ex D. Don.	Tiliaceae	Vern.: 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. Vern.: 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. Vern.: Banchilla, Chilmil, Dhamna, Perdeshi dala, Samma
115) <i>Hibiscus rosa-sinensis</i> L.	Malvaceae	SHOE FLOWER. Vern.: Jasum, Jasut
116) <i>Hibiscus syriacus</i> L.	Malvaceae	ROSE OF SHARON, SHRUBBY ALTHAEA. Vern.: Swetjava, Gurhal
117) <i>Holarrhena pubescens</i> (Buch-Ham.) Wall ex G.Don. Syn. <i>Holarrhena antidysentrica</i> (L.) Wall. ex A.DC.	Apocynaceae	CONESSI OR TELlichERY BARK. Vern.: 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. Vern.: Bandaru, Barthoa, Barthu, Kala bachnag, Padthua, Phaldu, Phargur, Potur
119) <i>Indigofera cassioides</i> Rottl. ex DC. Syn. <i>Indigofera pulchella</i> Roxb.	Papilionaceae / Fabaceae <i>nom. alt.</i> Leguminosae, subfamily Papilionatae	Vern.: Kathi, Hakna, Nil, Sakena
120) <i>Ipomoea carnea</i> Jacquin. Syn. <i>Ipomoea fistulosa</i> Martius.	Convolvulaceae	Vern.: 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. Vern.: Jacaranda
122) <i>Jasminum grandiflorum</i> L.	Oleaceae	THE CATALONIAN JASMINE, SPANISH OR COMMON JASMINE . Vern.:

		Chambel, Chambeli, Chameli, Jati, Jui
123) <i>Jasminum humile</i> L.	Oleaceae	YELLOW JASMINE, ITALIAN JASMINE, NEPAL JASMINE OR GOLDEN JASMINE. Vern.: 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. Vern.:
125) <i>Jasminum multiflorum</i> (Burm. f.) Andrews, <i>Jasminum pubescens</i> (Retz.) Willd.	Oleaceae	CHINESE JASMINE, COMMON JASMINE, DOWNY JASMINE, MUSK JASMINE. Vern.: Chameli, Kundphul, Kunda, Kundo
126) <i>Jatropha curcas</i> L.	Euphorbiaceae	BARBADOS NUT, PHYSIC NUT, POISON NUT, PURGING NUT. Vern.: 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. Vern.: Akhrot, Akrut, Akhor, Khor, Krot
128) <i>Kydia calycina</i> Roxb.	Malvaceae	PULA. Vern.: Choupultea, Pathra, Pola, Polao, Poola, Pula
129) <i>Lagerstroemia indica</i> L.	Lythraceae	CRAPE, COMMON CREPE MYRTLE, MYRTLE, CHINA PRIVET, INDIAN LILAC. Vern.: Phurush, Saoni, Telingachina
130) <i>Lannea cormandelica</i> (Houtt.) Merrill. Syn. <i>Lannea grandis</i> Engl., <i>Odina wodier</i> Roxb.	Anacardiaceae	JHINGAN, WODIER. Vern.: Jhingan, Kaimil, Kehmbel, Mohin, Salambra
131) <i>Lantana camara</i> L. Syn. <i>Lantana aculeata</i> L.	Verbenaceae	LANTANA WEED, WILD SAGE. Vern.: Kabar, Kurighas, Pardesi-Butti, Phulna
132) <i>Leptodermis lanceolata</i> Wall.	Rubiaceae	Vern.: Padarh, Padari, Padera
133) <i>Leucaena leucocephala</i> (Lam.) de Wit. Syn. <i>Mimosa leucocephala</i> Lam., <i>Leucaena glauca</i> Benth.	Mimosaceae <i>nom. alt.</i> Leguminosae subfamily Mimosoideae	. THE LEAD TREE, WHITE POPINAC, HORSE TAMARIND. Vern.: 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. Vern.: Kramighana phol, Gadchiana
135) <i>Mallotus philippinensis</i> (Lam.) Muell.-Arg.	Euphorbiaceae	MONKEY FACE TREE. Vern.: 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, Drek, Bevu, Chik bevu, Heb-bevu
138) <i>Mimosa himalayana</i> Gamble. Syn. <i>Mimosa rubicaulis auct non</i> L.	Mimosaceae <i>nom. alt.</i> Leguminosae subfamily Mimosoideae	Vern.: Agla, Aila, Alral, Durghari, Eil, Shiah kanta, Turgari
139) <i>Mirabilis jalapa</i> L.	Nyctaginaceae	FOUR O'CLCK 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 pterygosperms</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.: Banpipali, 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 odorum</i> Soland.	Apocyanaceae	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. Vern.: 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. Vern.: 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. Vern.: 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. Vern.: 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. Vern.: Chhittarthor, Haththathoria, Nagphana, Nagphani
155) <i>Oroxylum indicum</i> (L.) Ventenate.	Bignoniaceae	INDIAN TRUMPET FLOWER. Vern.: Arlu, Assarsauna, Kharkath, Miringa, Mulin, Pharkhat, Pharraí, Pharri, Sauna, Sori, Shyona, Tatpalaanga, Taatpalaanga, Tatmorang, Tatpalang, Ullu
156) <i>Ougeinia oujenensis</i> (Roxb.) Hochr. Syn. <i>Ougeinia dalbergioides</i> Benth.	Papilionaceae / Fabaceae <i>nom. alt.</i> Leguminosae, subfamily Papilionatae	SANDAN. Vern.: Panan, Panjan, Sanan, Sandan, Tinsa
157) <i>Phoenix humilis</i> Royle.	Arecaceae <i>nom. alt.</i> Palmae	DWARF DATE PALM, HILL DATE PALM. Vern.: 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. Vern.: 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) Zoharí.	Anacardiaceae	Vern.: 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. Vern.: Dakhanibabul, Vilaitiyim Vilatimbi, Jangli-jalebi, Jungle-jalebi
161) <i>Pogostemon benghalense</i> (Burm.f.) Kuntze. Syn. <i>Pogostemon plectranthoides</i> Desfontaines.	Lamiaceae <i>nom. alt.</i> Labiatae	CEYLON LEADWORT, WHITE FLOWERED LEADWORT. Vern.: Bakoha, Barmera, Juilata, Jui, Lujra, Pangla, Parmaydiya, Rudera
162) <i>Polyalthia longifolia</i> Benth & Hook.f.	Annonaceae	CEMETERY TREE, INDIAN FIR, MAST TREE. Vern.: Ashoka, Asok, Debdari, Deodar, Devadar, Devadaru, Devidari
163) <i>Populus deltoids</i> Sarg.	Salicaceae	EASTERN COTTON WOOD, NECKLACE POPULAR. Vern.: Popular
164) <i>Premna latifolia</i> Roxb.	Verbenaceae	Vern.: Agniun, Bakar, Bakarcha, Basot, Basota, Jhatela, Tumari
165) <i>Prinsepia utilis</i> Royle.	Rosaceae	HIMALAYAN PRINSEPIA. Vern.: Arund, Bekhal, Bekkli, Bhekhhal, Bhekhla, 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	ALGARоба, MESQUITE. Vern.: HINDI: Kabuli kikkar, Kikar, Vilayati babul, Vilayati khejra, Vilayati kikkar
167) <i>Prunus armeniaca</i> L.	Rosaceae	COMMON APRICOT. Vern.: Khubani, Khurmani, Hari, Sari, Chuli, Chilu, Chulu, Chuari, Jaldaru, Zardalu
168) <i>Prunus avium</i> L.	Rosaceae	WILD CHERRY TREE. Vern.: Gilas, Krusbal
169) <i>Prunus domestica</i> L. Syn. <i>Prunus communis</i> Huds.	Rosaceae	COMMON PLUM, BULLACE, PRUNE, ALUCHA. Vern.: Alubukhara, Alucha, Palum
170) <i>Prunus persica</i> (L.) Batsch.	Rosaceae	PEACH TREE. Vern.: Aaru, Aor, Aru, Arui, Beimi, Bem, Bembi, Chimmanu, Katherti, Rek, Sunnu, Tsunu
171) <i>Psidium guajava</i> L.	Myrtaceae	GUAVA TREE. Vern.: Am, Amrud, Amrut, Marud, Safedsafari
172) <i>Pterospermum acerifolium</i> Willd. Syn. <i>Pterospermum aceroides</i> Wall. <i>Pentapetes acerifolia</i> L.	Sterculiaceae	HATHIPAILA. Vern.: Kanakchampa, Kaniar, Kathachampa, Lakshmanpatta, Muskunda
173) <i>Pueraria tuberosa</i> DC.	Papilionaceae /	INDIAN KUDZU. Vern.:

	Fabaceae <i>nom. alt.</i> Leguminosae, subfamily Papilionatae	Bedarikand, Bilaikand, Bankumra, Bharda, Sural, Siali, Salod
174) <i>Punica granatum</i> L.	Punicaceae	POMEGRANATE. Vern.: Anar, Daadu, Daran, Dadin, Daru, Dhalim, Naar
175) <i>Pyrus communis</i> L.	Rosaceae	PEAR TREE, WILD PEAR. Vern.: Batang, Batak, Charkeint, Li, Nak, Nashpati, Naspati, Sunkeint, Tang, Tangi
176) <i>Pyrus pashia</i> Buch.-Ham. ex D.Don.	Rosaceae	Vern.: 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</i> <i>longispina</i> Wight & Arn., non Blume, <i>Xeromphis spinosa</i> (Thunb.)Keay.	Rubiaceae	COMMON EMETIC NUT/TREE. Vern.: Arar, Karhar, Mainphal, Madana, Rada, Rara
178) <i>Rhamnus purpureus</i> Edgew. <i>Syn.</i> <i>Rhamnus purpurea</i> Edgew.	Rhamnaceae	PURPLE BUCKTHORN. Vern.: 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. Vern.: 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. Vern.: Robinnia, Rubinia.
181) <i>Rosa brunonii</i> Lindl. <i>Syn. Rosa</i> <i>moschata auct. non</i> Mill.	Rosaceae	HIMALAYAN MUSK ROSE. Vern.: Kubje, Kuj, Kuja, Kujain, Kuje, Kujen, Karer, Kuji, Kunja, Kwiala
182) <i>Rosa macrophylla</i> Lindl.	Rosaceae	WILD ROSE. Vern.: Bangulab, Gulab, Tumbi, Shingari, Breri, Yal, Trind.
183) <i>Rubus biflorus</i> Buch.-Ham. Ex Sm.	Rosaceae	Vern.: Akhe, Akhreri, Ankren, Bassandur, Batang, Bumbal, Dher, Hissar, Insra, Kantanch, Karer, Khariara, Kalkalin
184) <i>Rubus ellipticus</i> J.E. Smith.	Rosaceae	HIMALAYAN RASPBERRY. Vern.: 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. Vern.: 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	Vern.: Amlora, Katambal, Khaltimal, Khatmitha, Khattimol, Malora
187) <i>Salix tetrasperma</i> Roxb.	Salicaceae	INDIAN WILLOW. Vern.: 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. Vern.:
189) <i>Sapium insigne</i> (Royle) Benth. ex. Hook. f. Syn. <i>Falconeria insignis</i> Royle, <i>Falconeria wallichiana</i> Royle.	Euphorbiaceae	Vern.: Balodhar, Bilodar, Biloja, Khhina, Khiria, Khirindra, Kendwa, Khirun, Dudla, Hure, Kaduru, Garbhasula, Tillai, Garpashola, Khirni, Khiran, Karalla, Lendwa
190) <i>Solanum erianthum</i> D. Don. Syn. <i>Solanum verbascifolium</i> auct. non. L.	Solanaceae	POTATO TREE. Vern.: Ara, Kala-mewa, Kharawari, Radakh
191) <i>Solanum nigrum</i> L.	Solanaceae	BLACK NIGHT SHADE. Vern.: 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. Vern.: 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	Vern.: Mahabal, Patiur
194) <i>Spiraea canescens</i> D. Don.	Rosaceae	Vern.: Bhutti, Chakoi, Chaku, Katamatialna, Mairab, Takoi, Taku
195) <i>Spondias pinnata</i> (L.f.) Kung. Syn. <i>Mangifera pinnata</i> L.f.; <i>Spondias</i> <i>mangifera</i> Willd.	Anacardiaceae	BILE TREE, INDIAN HOG PLU, TRAVELLER'S DELIGHT, WILD MANGO. Vern.: Amara, Ambodha, Ambra, Amra, Buara.

196) <i>Sterculia villosa</i> Roxb. ex Smith.	Sterculiaceae	Vern.: Godgudala, Liander, Udal, Udar
197) <i>Syzygium caryophyllatum</i> (L.) Alston. Syn. <i>Eugenia caryophyllata</i> White.	Myrtaceae	XX. Vern.: Jaman, Khataman
198) <i>Syzygium cumini</i> (L.) Skeels. Syn. <i>Eugenia jambolana</i> Lam., <i>Eugenia cumini</i> Druce.	Myrtaceae	BLACK PLUM, JAMBOL, JAMBOLANA, JAMBUL, JAVA PLUM, JAMAN. Vern.: Bahojaman, Jam, Jaman, Jaman, Jamun, Jamniphalani, Kalajaman, Pairman, Phalanda, Phalinda, Pharenda, Phaunda
199) <i>Tabernaemontana divaricata</i> (L.) R. Br. ex. Roem. & Schult. 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.	Apocyanaceae	CRAPE-JASMINE, EAST INDIAN ROSEBAY, WAX FLOWER. Vern.: Chamela, Chandni, Chandui, Sugandabala, Taggai, Taggar
200) <i>Tecoma stans</i> (L.) Juss. Ex HBK.	Bignoniaceae	YELLOW ELDER, YELLOW-BELLS. Vern.: Kareneklar, Sonapatti, Tecoma.
201) <i>Tectona grandis</i> L.f. (Introduced in Bilaspur)	Verbenaceae	INDIAN OAK, SHIP TREE, TEAK. Vern.: Sagun, Sagun, Sagwan, Sakhu, Según
202) <i>Terminalia alata</i> Heyne ex Roth. 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. Vern.: Asan, Alson, Sain, Saj
203) <i>Terminalia arjuna</i> (Roxb. ex DC.) Wight & Arn. 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. Vern.: Anjan, Anjani, Arjan, Arjun, Arjuna, Jamla, Kahu, Kahua, Kaugach, Khawa, Koha, Kowa
204) <i>Terminalia bellerica</i> (Gaertner.) Roxb.	Combretaceae	BASTARD MYROBALAN, BEDDA NUTS, BELLERIC MYROBALAN. Vern.: Bahera, Beda, Behara, Behra, Bheda, Bhaira, Bhairach, Bharla, Buhura, Bulla, Sagona
205) <i>Terminalia chebula</i> Retz.	Combretaceae	BLACK MYROBALAN, CHEBULIC MYROBALAN. Vern.: Har, Hardi, Harad, Harar, Harra, Harrar
206) <i>Thysanolaena maxima</i> (Roxb.) O. Kuntze. Syn. <i>Agrostis maxima</i> Roxb., <i>Thysanolaena agrostis</i> Nees, <i>Thysanolaena procera</i> Mez.	Poaceae <i>nom. alt.</i> Gramineae	BOUQUET-GRASS, BROOM-GRASS, TIGER-GRASS. Vern.: Kuchi, Pirlu
207) <i>Tinospora cordifolia</i> (Willd.) Miers. Syn. <i>Menispermum cordifolium</i> Willd.	Menispermaceae	GILOY, GULANCHA TINOSPORA. Vern.: 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 dioca</i> L.	Urticaceae	COMMON NETTLE, GREATER NETTLE, NAUGHTY MAN'S PLATHING NETTLE, SCADDIE, STINGING NETTLE, STINGY NETTLE, TINGING NETTLE. Vern.: Bichu-buti
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) Woodfordia fruticosa (L.) Kurz. Syn. <i>Woodfordia floribunda</i> Salisb.	Lythraceae	FIRE-FLAME BUSH, SHIRABJITEA, RED BELL BUSH, WOODFORDIA. Vern.: Dhai, Dhai-ki-phool, Dhataki, Dhataki-pushpha, Dhamin, Dhawi, Dhauri, Dhal, Dawa, Dawi, Dha, Dhai, Dhau, Dhaura, Dhauri, Dhawai, Dhawla, Dhewtie, Santha, Thawi, Guldaur, Tawi
219) Wrightia arborea (Dennst.) Mabberley. 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) Xanthium indicum Koenig. Syn. <i>Xanthium strumarium</i> L.	Asteraceae <i>nom. alt</i> Compositae	BURWEED, CLOTBUR, COCKLEBUR. Vern.: Adhasisi, Banokra, Chhota- dhatura, Chhotagokhru, Gokhru, Wangen Jsura, Lake-natheri, Shankhahuli
221) Yucca gloriosa L. Syn. <i>Yucca recurvifolia</i> Salish.	Liliaceae	SPANISH DAGGER-PLANT, ADAM'S NEEDLE. Vern.: Arrarot ghas
222) Zanthoxylum armatum DC. Syn. <i>Zanthoxylum alatum</i> Roxb.	Rutaceae	TOOTHACHE TREE, WINGLEAF PRICKLY ASH. Vern.: Timbar, Timru, Darmar, Nipalidhanya, Tejbal, Tejphal, Tezmal, Timbur, Timur, Tirmira, Tirmara, Timru, Tumru, Tun. Timbri, Trimir
223) Zizyphus hysudrica (Edgew.) Hole. Syn. <i>Zizyphus jujuba</i> Lumk. var. <i>hysudricus</i> . Edgew.	Rhamnaceae	Vern.: Beri
224) Zizyphus mauritiana Lam. Syn. <i>Zizyphus jujuba</i> (L.) Gaertn., <i>Rhamnus jujube</i> L.	Rhamnaceae	CHINESE DATE, INDIAN CHERRY, INDIAN ZUZUBE, INDIAN PLUM, JUJUBE. Vern.: Ajapriya, Baeri, Baradi, Ber, Beri
225) Zizyphus nummularia (Burm.f.) Wight & Arn. Syn. <i>Rhamnus nummularia</i> Burm.f., <i>Zizyphus rotundifolia</i> Lam.	Rhamnaceae	WILD JUJUBE. Vern.: Bal, Baradi, Ber, Birar, Jangra, Jhahrberi, Jhadiaber, Kokni-ber, Mala-ber, Mallah
226) Zizyphus xylopyra Willd. Syn. <i>Zizyphus xylocarpus</i> Willd.; <i>Zizyphus glaberrima</i> Santapau.	Rhamnaceae	Ghont, Gontber, Gote, Kakor, Kat-ber

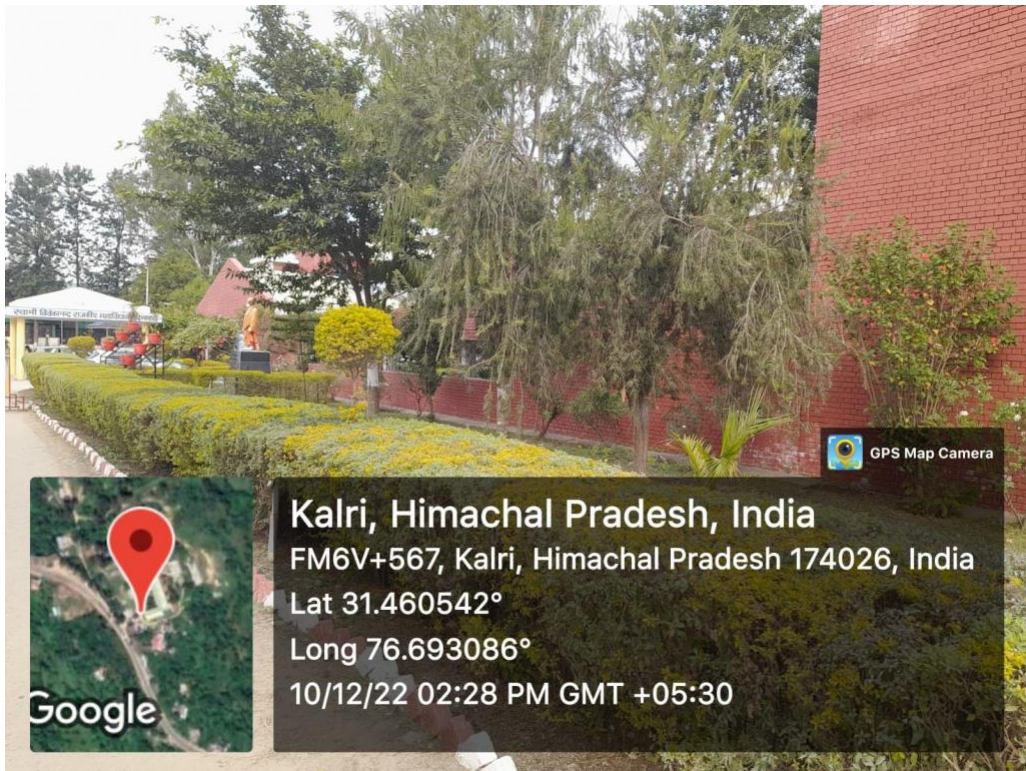






Fig. 2. Overview of Lush Green Campus.

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 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 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 minimizes the use of chemicals.

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

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

- All glassware and microbial cultures used are first sterilized 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 all official 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

1. Regular Activities of Session 2021-22
2. Attendance of N.S.S. volunteers.

8-8-2021
15-8-2021

आज दिनांक 8 Aug. 2021 को महाविद्यालय परिषद में अमृतमहोत्सव मनाते के लिए विद्यार्थियों को बस बारे में जानकारी दी गई। व 9 Aug. से 15 Aug. तक यह कार्यक्रम चला। व 12 Aug. को महाविद्यालय परिषद की सभाई कि गई व 15 Aug को ध्वज फहराकर अमृत महोत्सव मनाया गया।

ध्वजरोहन 15-8-2021



रखपकेस सेना कर्मचारी द्वारा






Fig: 3. Weed eradication programme.

classmate
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18 Oct 2021

ज्ञान विनांक 18 अक्टूबर 2021 को स्वामी विवेकानन्द राजकीय महाविद्यालय कुमायूँ की राष्ट्रीय स्वयं सेवा ईकाई (रू) ने महाविद्यालय के कैम्पस में सफाई अभियान किया जिसके अर्तगत महाविद्यालय झाड़ियों का कटाव किया गया, नई कुमारियाँ बनाई गई तथा बचरा इकट्ठा करके उसे जला कर नष्ट किया गया। इस सफाई अभियान में लगभग 20 स्वयंसेवकों ने भाग लिया।

Name	Class Roll No.	Sign.
1. Sumita devi	8B 20PS054	Sumita
2. Shweta Dhimman	204707	Shweta
3. Pashma kumari	21MA014	Pashma
4. Shalini	21MA021	Shalini
5. Khushboo	21EC003	Khushboo
6. Simmi Thakur	21MA034	Simmi
7. Pallvi	20GE037	Pallvi
8. Sheetal Devi	20GE022	Sheetal
9. Piyanka Devi	20HN030	Piyanka Devi
10. Piyanka Sharma	20HN040	Piyanka
11. Vandna kumari	19MH021	Vandna
12. Labita	20ED010	Labita
13. Karishma	20PS032	Karishma
14. Sarawati	19SD001	Sarawati
15. Ritika Gauram	19PS029	Ritika
16. Jyoti ka	19PS004	Jyoti ka
17. Shivanshi	19MA048	Shivanshi
19. Kamini	21HT057	Kamini

22/Nov/2021

आज दिनांक 22-11-2021 को स्वामी विवेकानन्द राष्ट्रीय महाविद्यालय छुमरावी के स्वयंसेवकों ने महाविद्यालय परिसर में एक दिवसीय स्वच्छता कैंप का आयोजन किया।

स्वामी विद्यालय स्वयंसेवकों को सम्मानित करते हैं।



1.	Saswati	1950001	Saswati
2.	Kalpna Devi	1020001	Kalpna
3.	Sheetal Devi	209E022	Sheetal
4.	Komal Kumari	209E048	Komal
5.	Neha	209E023	Neha
6.	Priya	206E041	Priya
7.	Pallvi	206E037	Pallvi
8.	Priya Sharma	2KH092	Priya
9.	Ritika Sharma	21Z0053	Ritika
10.	Tamamma Dau	19B0041	Tamam
11.	Simmi Thakur	21MA034	Simmi
12.	Jyoti Kumar	21JM017	Jyoti

Fig: 4. Swachata Abhiyan.



Fig. 5. Biodegradable Pit.



Fig. 6. Incinerator installed inside the girl's washroom.



Fig. 7. Dustbins installed in the campus.

classmate
Date: _____
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26-8-2021

आज दिनांक 26 Aug. 2021 को महाविद्यालय
परिषद् में NCC कार्य स्वयंसेवियों द्वारा पोटा-
रीषण का कार्य किया गया महाविद्यालय
परिषद् कुल 25 पीछे लगाए गए।
व आज में छाविर में कम बच्चों
को बुलाया गया था। कीरीना महाभाषी
के कारण कम ही कम बच्चों ने आज
के पीछारोपण में बुलाया गया था
तथा SOP के नियमों का पालन
मिना गया।

1	Kaetika Dhiman	189E021
2	Pallvi	189E006
3	Ankita	189E025
4	Kalpna Davi	1920001
5	Sanswati	1950001
6	Neeta	19HN030
7	Ankit Chadda	19HN093
8	Dishu Kumar	19HN082
9	Anish	20EN021
10	Abhishek Sharma	19HN057
11	Nikita	196E023
12	Pooja Kumari	19HN032
13	Pallal	19HN064
14	Kanchankumari	19HN031
15	Deevika	19HN08
16	Vandna Kumari	19MH021

classmate			
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Page _____			
17	Sakshi sharma	Roll no 19B0016	Sakshi sharma
18	Ritika Thakur	Roll no 19B0038	Ritika Thakur
19	Ritika Chandel	Roll No- 19B0048	Ritika chandel
20	Ritika	Roll No. 19B0024	Ritika

26/8/2021
पुष्परोपण





Fig: 8. Plantation drive in the campus.

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 (Fig: 9).
- Roof top rain water is properly preserved in this under-ground tank with a capacity of about 100000 litre.
- 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.



Fig: 9. Underground roof top rain water harvesting tank.

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

Total annual power requirement (in KWH)

- Total Annual Power Requirement met out by H.P State Electricity department =24,725 KWH
- Annual Power requirement met out of Solar Panel and Grid = 52,085 KWH
- Total (Annual) Power Consumption = 24,725 + 52085 = 76,810 KWH
- Cost of one unit in H.P.= Rs 4.70

Money Saved Per Annum = 52,085X 4.70 = Rs. 2,44,799.50

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 38 new LED bulbs purchased in session 2021-2022 from Pushap electricals store, Ghumarwin, H.P. amounting Rs 7620/- help in reducing power consumption. College had also installed 9 solar street lights in the campus previously, which are also repaired in the2021-2022session.



Fig: 10. Solar panels installed on the roof of college building.



Fig: 11. Solar Power House.

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

Voucher No. 15 to Voucher No. Dated 28/11/16
 Cheque No. 981113 (Rs. only)
 Amounting to Rs. 2,92,500/- for making
 the payments of the undersigned vouchers which may kindly be signed
 or directed for payments:- R.M.S.A. JERANT

V.No.	Description	Cheque No.	Amount
	<u>20 Renovation (नवीकरण)</u>		<u>2,92,500/-</u>
Rs.			Grand Total Rs. <u>2,92,500/-</u>

Prepared by:
 Checked and Verified for Rs. 2,92,500/-

Birhar
 S.V.G.C. Ghumarwin
 Distt. Bilaspur (H.P.)

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

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

Fig: 12. Report showing expenses incurred on installation of solar plant.

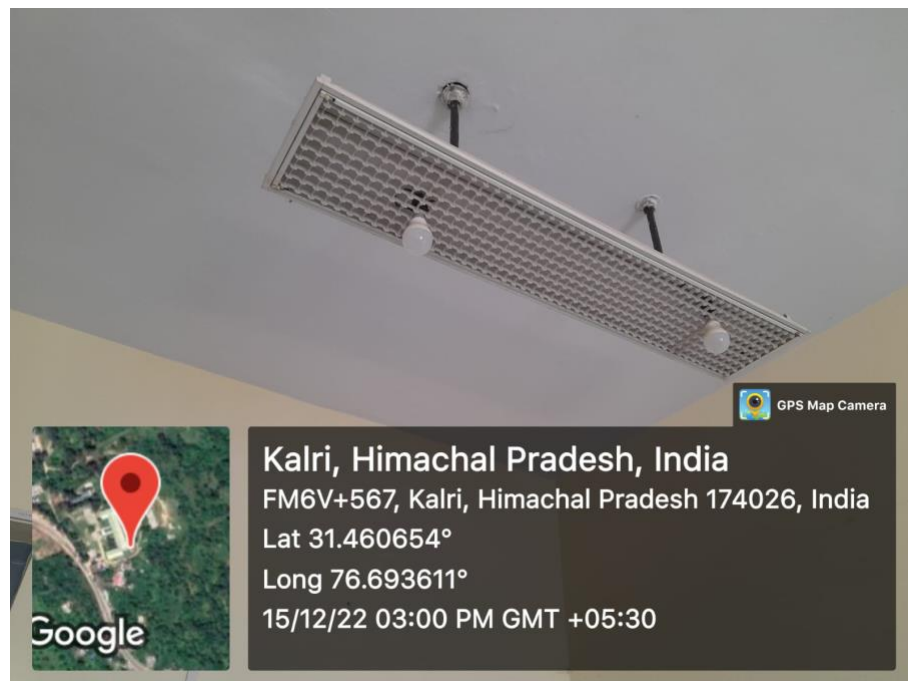


Fig: 13. LED bulbs in the college campus.

PUSHP ELECTRICALS STORE

NEAR GHANDHI CHOWK
MAIN ROAD 02-HIMACHAL PRADES
GHUMARWIR H.P.
Phone : 0810017456, 9018124025
E-Mail : PUSHPEL17456@GMAIL.COM

GST INVOICE

GSTIN: 02NHKPS4500R122

PRINCIPAL GOC GHUMARWIR H.P.

Invoice No: 0000805 Date: 16/12/2021

HIMACHAL PRADES

Order No:

IN NO: 0216272053

L.R. No:

Cases: 0

Transport:

Due Date: 16/12/2021

S	Qty	Product	HSR	HSN	MRP	Rate	DIS	SGST	COST	Amount
1	100	IVAN 1.5sq mm POLYCAR	POLYCAR	85490000	0.00	2700.00	0.00	9.00	9.00	8440.00
2	20	CABBING CAPPING 20-18	OTHERS	2817	0.00	35.00	0.00	9.00	9.00	700.00
3	10	10 STA 50A 50A BULL	5750A	9405	0.00	90.00	0.00	9.00	9.00	900.00
4	5	700 PLUGBUNT HOLDER	GOLD WOOD	9526	0.00	35.00	0.00	9.00	9.00	175.00
5	3	1.800 200 100LA UNIVERSAL SOCKET	GOLD WOOD	9526	0.00	140.00	0.00	9.00	9.00	280.00
6	2	5000 200 TOP LAMP	5000 200 TOP	9526	0.00	95.00	0.00	9.00	9.00	190.00
7	5	5000 200 VVO	5000 200	9526	0.00	30.00	0.00	9.00	9.00	150.00
8	5	5000 200	5000 200	9526	0.00	30.00	0.00	9.00	9.00	150.00

ACKNOWLEDGEMENT

Received application for transfer of Rs. 1959/- through RTGS/NEFT for credit to the account of P. S. Singh branch of State Bank of India on 16/12/2021.

1. The bank shall not be liable for any loss or damage arising or resulting from delay in transmission delivery or non delivery of Electronic message or any mistake omission or error in transmission or delivery thereof or in deciphering the message from any cause whatsoever or from its misinterpretation received or the action of the destination bank or any other act even beyond control.

2. Remittance would be effected as per RBI RTGS/NEFT scheme.

3. Message received after cut-off time will be sent on the next working day.

Txn/RTGS: APSON 22050001779 Sig. of Branch Manager [Signature] 16/12/2021

SUB TOTAL	6785.70
SGST	560.00
COST	560.00
CR/DR NOTE	0.00
GRAND TOTAL	7905.70

HEIS Clerk

27/4/2021

HPSEBL (A State Govt. Undertaking)
Electricity Bill April-21
Sub-Division: - GHUMARWIN-I

HPSEBL Help Line No. : 18001808060 of 1912
CGRF: B No.8 SDA Complex, Kaumpti Shimla-9.cgrf@hpseb.in
0177-2626104
Electricity Ombudsman: First Floor, Sharma Sadan, Khalini

2660
28/4/21

Consumer Id	THE KALRI PRICIPALG.D.C.	Supply Voltage(kV)	0.23	Bill No.	Consumer Info
Consumer A/c	100008000232	Standard Supply Voltage(kV)	11.00	Bill Date	100000325422
Address	KLJ-4-NDNCS-NDNCSGI 3221 BILASPUR 174021 GHUMARWIN	Metering Voltage(kV)	NDNCS-Two Part	Last Reading Date	09.04.2021
		Tariff Type	95.46	Current Reading Date	01.03.2021
		Conn.Load(kW)	106.00	Date	01.04.2021
		Con.Demand(kVA)	J3221KL3	Billing Cycle	Monthly
		Meter Reading Unit		Cash/Draft Due Date	30.04.2021
				Date	1

Meter No.	New	Old	Differenc	Multiplie	Adjustment/	Consumption
AVAN Main	HPS17520	338782.000	335292.00	3490.000	1.00000	0
RWH main		322359.000	318870.00	3489.000	1.00000	0
Normal hours		338777.000	335287.00	3490.000	1.00000	0
Peak hours		3.000	3.000	0.000	1.00000	0
Night hours		2.000	2.000	0.000	1.00000	0
Recorded Demand		0.990	0.000	0.990	1.00000	0.990
Max. Demand		95.400	0.000	95.400	1.00000	95.400
Power Factor						1.000

Particulars	Base Value	Rate	Amount (Rs.)
Energy Charge - Peak	0		16403.00
Energy Charge - Normal-Off	3490.000	4.70 (Rs./kVAh)	16403.00
Total energy charge			
Night Time Concession			
Lower Voltage Supply	16403.00 (Rs.)	5.00 %	820.15
Lower Voltage Metering			
Disturbing Load Penalty			
90% of Con. Demand	106.00	90% / 10%	95.400
Demand Charge	95.400 kVA	140.00 (Rs./kVA)	13356.00
Contract Demand Violation			
Peak Load Demand Chrg			
Meter Rent	1 month	30609.50 (Rs./month)	30.00
Consumer Service Surcharge			
Net Current SOP			30609.15
Electricity Duty			
MC Tax			

30609.50
HEIS Clerk
Director

	Payment Info				Total (Rs.)
	SOP (Rs.)	ED (Rs.)	MT (Rs.)	Others (Rs.)	
Security Deposit					
SD Paid Date					
Last Payment					
Last Payment Date					
Payable Charges	30609.15				30609.15
Sundry	0.00	0.00	0.00		0
Arrears (Total) %	0.28	0	0.00		0.28
Arrears	0	0.00	0.00		0
Adv/Intrst (Cr/Dr)				0.00	
Total Amount payable before Due Date	30609.43	0	0	0.00	30609.00
Late Payment	459.14				
Total Amount Payable After Due Date	31068.57	0	0	0.00	31069.00

Sundry Amount SOP/ED/MTAXO Rs. will be Claimed/Adjusted in Current/Next Bill.
Notice: In the event of non-payment of all dues by due date, connection shall be disconnected after expiry of 15 days notice period as per section 56(1) of Electricity Act,
VSS, LVMS Charges calculate on net energy charge = (Energy Charge after considering NTC

Division: - GHUMARWIN-I
 Sub-Division:
 Sub-Station code: - 3221

Electricity Ombudsman: First Floor, Sharma Sadan, Khalini Shimla-2
 ombudsmanelectricity@gmail.com, 0177-2624525

		Consumer Info	
Consumer ID	THE KALPI PRICIPALG.D.C.	Supply Voltage(kV)	0.23
A/c no.	100008000232	Standard Supply Voltage(kV)	11.00
Station No.	KL3-4-NDNCS-NDNCSG1	Metering Voltage(kV)	
Consumer Name	5000198457	Tariff Type	NDNCS-Two Part
Address	3221 BILASPUR 174021 GHUMARWIN	Conn.Load(kW)	95.46
		Con.Demand(kVA)	106.00
		Meter Reading Unit	J3221KL3
		Capacitor Status	
		Bill No.	140000443764
		Bill Date	22.03.2022
		Last Reading Date	01.02.2022
		Current Reading Date	28.02.2022
		Billing Cycle	Monthly
		Cash/Draft Due Date	31.03.2022
		Cheque Due Date	29.03.2022
		Billing Period	1

Meter Reading							
	Meter No.	New	Old	Difference	Multiplier	Adjustment/ Estimated units	Consumption
Main	HPS17520	363016.980	360016.980	3000.000	1.00000	0	3000.000
Main		346320.000	343320.000	3000.000	1.00000	0	3000.000
24 hours		363011.000	360011.000	3000.000	1.00000	0	3000.000
12 hours		3.000	3.000	0.000	1.00000	0	0
6 hours		2.980	2.980	0.000	1.00000	0	0
Contract Demand		0.910	0.000	0.910	1.00000		0.910
Contract Demand		95.400	0.000	95.400	1.00000		95.400
Power Factor							1.000

Bill Particulars			
Particulars	Base Value	Rate	Amount (Rs.)
Energy Charge - Peak	0		14100
Energy Charge - Normal-Off	3000.000	4.70 (Rs./kVAh)	14100.00
Total energy charge			
Light Time Concession			
Lower Voltage Supply Surcharge	14100.00 (Rs.)	5.00 %	705.00
Lower Voltage Metering Surcharge			
Disturbing Load Penalty			
10% of Con. Demand	106.00	90% / 10%	95.400
Demand Charge	95.400 kVA	140.00 (Rs./kVA)	13356.00
Contract Demand Violation Charge			
Pebate on Expansion			
Water Rent	1 month	30.00 (Rs./month)	30.00
Consumer Service Surcharge	Discontinued & Passed for Rs. 28191/-		
Net Current SOP	out of H.E. & Amd.		28191.00
Electricity Duty			
MC Tax			

Payment Info					
	SOP (Rs.)	ED (Rs.)	MT (Rs.)	Others (Rs.)	Total (Rs.)
Security Deposit					
ED Paid Date					
Last Payment amount (Rs.)					
Last Payment Date					
Payable Charges	28191.00				28191.00
Sundry	0.00	0.00	0.00		0
Arrears (Total) %	0	0	0.00		0
Arrears (Disputed)	0	0.00	0.00		0
Adv/Intrst (Cr/Dr) *				0.17-	
Total Amount payable before Due Date	28191.00	0	0	0.17-	28191.00
Late Payment Surch.	422.86				
Total Amount Payable After Due Date	28613.86	0	0	0.17-	28614.00

* Sundry Amount SOP/ED/NTAXO Rs.will be claimed/adjusted in current/next bill.
 ** Advance Amount-0.17 Rs.has been Released
 Notice: In the event of non-payment of all dues by due date, connection shall be disconnected after expiry of 15 days notice period as per section 36(1) of Electricity Act, 2003.
 ED, LVSS, LVMS Charges calculate on net energy charge = (Energy Charge after considering NTC and Pebate).

MOI Clerk

Principal 23/4/2021

285
28/4

HPSEBL (A State Govt. Undertaking)
Electricity Bill April-21
Sub-Division: - GHUMARWIN-I

HPSEBL Help Line Nb. : 18001808060 or 1912
CGRF: B No.8 SDA Complex, Kasumpti Shimla-9.cgrf@hpseb.in
Electricity Ombudsman: First Floor, Sharma Sadan, Khalin.

Consumer Info	
Name Address	THE PRINCIPAL GDC GIRL HOSTAL 3221 BILASPUR 174021 KALRI
Consumer Id	10000017790
Legacy A/c no.	KL4-I-DS-DSGI
Std. Supply	0.40
Voltage (KV)	0.40
Supply Voltage (KV)	
Metering	DS
Voltage (KV)	14.80
Tariff Type	M3221KL4
Bill No.	120000339592
Issue Date	22.04.2021
Last Reading Date	01.03.2021
Current Reading	01.04.2021
Date	Monthly
Billing Cycle	30.04.2021
Cash/Draft Due	28.04.2021
Date	31

Meter Reading & Consumption							
	Meter No.	New	Old	Differen ce	Multipli er	Adjustment/ Estimated units	Consumption
kWh main	11783504_8	180880.00	179010.	1870.000	1.000	0	1870.000
Power Factor							
Concession							

Bill Particulars			
Particulars	Base Value	Rate	Amount (Rs.)
Energy Charge	127.000 kWh	3.95 (Rs./kWh)	501.65
	179.000 kWh	4.85 (Rs./kWh)	868.15
	1564.000 kWh	5.45 (Rs./kWh)	8523.80
Total energy charge			9893.60
Disturbing Load Penalty			0
Govt. Subsidy	127.000 kWh	2.10 (Rs./kWh)	-266.70
	179.000 kWh	0.90 (Rs./kWh)	-161.10
	1564.000 kWh	0.45 (Rs./kWh)	-703.80
Total Govt. subsidy			-1131.60
Total Board Employee			0
Fixed Charge	31 day	70.00 (Rs./month)	71.34
Meter Rent	31 day	30.00 (Rs./month)	30.58
Net Current SOP			8863.92
Electricity Duty	9893.60 (Rs.)	3.000 %	296.81
MC Tax	1870.000 kWh	0.00 (Paisa)	0

Security Deposit	1080.00
SD Paid Date	18.05.2016
Last Paid	
Last Paid Date	

	SOP (Rs.)	ED (Rs.)	M. Tax (Rs)	Other (Rs)	Total (Rs.)
Current Charges	8863.92	296.81	0		9160.73
Sundry \$	0				0
Neg. Sundry \$					0
Allowances					
Arrears (Nor) %	102211.56	3217.11	0.00		105428.67
Arrears	0.00	0.00	0.00		0
Othrs/Adv/Int (Cr)				0.00	0.00
Total Amount payable before Due Date	111075.48	3513.92	0	0.00	114589.00
Date Payment Surch.	1666.13				
Total Amount Payable After Due Date	112741.61	3513.92	0	0.00	116256.00

Sanctioned & Passed for Rs. 1,14,589/-
out of Hostel Fund

- 1 % Total Arrear Amount (SOP/ED/MTAX) 105428.67 has been claimed due to Outstanding Rs.
- 2 : Advance Amount 0 Rs. has been Released
- 3 Electricity Duty calculated on Energy Charge
- 4 Notice: In the event of non-payment of all dues by due date, connection shall be disconnected after expiry of 15 days notice period as per section 56(1) of Electricity Act, 2003.

856
22/11/2022

HPSEBL Help Line No. : 18001808060 or 1912
 CGRF: "B" No. A. SDA Complex, Kasumpti Shimla-9. crgrf@hpseb.in 0177-2626104
 Electricity Ombudsman: First Floor, Sharma Sadan, Khalini Shimla-2
 ombudsman@hpseb.com, 0177-2621925

HPSEBL (A State Govt. Undertaking) Electricity Bill November-22
 Division: GHUMARWIN-1
 Sub-Division code: - 3221

Principal
S.V. Govt. Degree College
Ghumarwin, Distt. Bilaspur (H.P.)

Consumer Info	
THE PRINCIPAL GDC GIRL HOSPITAL 3221 BILASPUR 174021 KALNI	Consumer Id Legacy A/c no. Installation No Std. Supply Voltage (KV) Supply Voltage (KV) Metering Voltage (KV) Tariff Type Conn. Load (KW) Meter Reading Unit

100000137790 KL4-I-DS-DSG1 5000198715 0.40 0.40 DS 14.80 M3221KL4	Bill No. Issue Date Last Reading Date Current Reading Date Cash/Draft Due Date Cheque Due Date Billing Days
--	---

Meter Reading & Consumption						
Meter No.	New	Old	Difference	Multiplier	Adjustment/ Estimated units	Consumption
11783504_8	198340.000	181370.000	16970.000	1.000	0	16970.000

Bill Particulars			
Particulars	Base Value	Rate	Amount (Rs.)
Energy Charge	629.000 kWh	4.15 (Rs./kWh)	2610.35
	880.000 kWh	5.05 (Rs./kWh)	4444.00
	15461.000 kWh	5.65 (Rs./kWh)	87354.65
Total energy charge			94409.00
Disturbing Load Penalty			0
Energy Charges Govt. Subsidy	629.000 kWh	2.30 (Rs./kWh)	-1446.70
	880.000 kWh	1.10 (Rs./kWh)	-968.00
	15461.000 kWh	0.65 (Rs./kWh)	-10049.65
Total Govt. subsidy			-12464.35
Total Board Employee Concession			0
Fixed Charge	153 day	85.00 (Rs./month)	427.56
Fixed Charges Gov. Subsidy			0.00
Meter Rent	153 day	0.00 (Rs./month)	0.00
Net Current SOP			82372.21
Electricity Duty	94409.00 (Rs.)	3.00 %	2832.27
MC Tax	16970.000 kWh	0.00 (Paiga)	0

sanctioned & Passes for Rs. 88,243/-
out of Hostel Fund

Payment Info					
	SOP (Rs.)	ED (Rs.)	M. Tax (Rs.)	Other (Rs.)	Total (Rs.)
Current Charges	82372.21	2832.27	0		85204.48
Sundry \$	0				0
Neg. Sundry\$					0
Allowances					3084.16
Arrears (Net) \$	3026.09	58.07	0.00		0
Arrears (Disputed)	0.00	0.00	0.00		-45.90
Othrs/Adv/Int (Cr/Dr)				-45.90	-45.90
TCS/TDS charge	0				0
Amt Before Due Date	85398.30	2890.34	0	-45.90	88243.00
Late Payment Surch.	1280.29				
Total Amount Payable After Due Date	86678.59	2890.34	0	-45.90	89523.00

Security Deposit	1080.00
SD Paid Date	18.05.2016
Last Paid amount (Rs.)	
Last Paid Date	

1. Total Arrear Amount (SOP/ED/MTAX) 3084.16 has been claimed due to Outstanding Rs.
 2. SD Interest Amount As Totl Int :-45.90 Edu Ces :TDS :Net Int-45.90 Rs. has been Released
 3. Advance Amount 0 Rs. has been Released
 4. Electricity Duty calculated on Energy Charge
 5. Notice: In the event of non-payment of all dues by due date, connection shall be disconnected after expiry of 15 days notice period as per section 56(1) of Electricity Act, 2003.

Fig: 14. Bills showing expenses incurred on installation of LED bulbs and electricity bills.

