

CHAPTER III

MISAPPROPRIATION OF TRADITIONAL KNOWLEDGE IN INDIA WITHOUT OBTAINING PATENT

INTRODUCTION

A new form of biopiracy is posing a threat to traditional knowledge protection of medicinal plants in India. There are open and clandestine attacks on traditional knowledge of India from different corners of the world. It is possible because the legal framework for the control and regulation of biopiracy in India is not very strong. Ignoring the incidents of biopiracy within the country, India has been tracking the incidents of biopiracy by other countries against itself. There has not been any protest or concern expressed against this offence. It is to be ensured that traditional knowledge associated with medicinal plants is adequately protected in India. The strategy should be to protect this intellectual property (community or society oriented) in the country and ensure that no misappropriation takes place in any form. India should fight-legally and politically, the biopiracy policy of the international law and the national laws of the developed countries.

Ayurvedic medicines are produced by many companies in India, but most of them are quite small. The industry has been dominated by around twelve big companies producing ayurvedic medicines in large scales. To meet the growing demands of Ayurvedic medicines in India and abroad, there is further scope to expand the business. Some of the big business houses are Divya Pharmacy, Baidyanath, Zandu, Dabur, Himalayan et al. Examples of the ayurvedic medicines produced and marketed by some companies and trust are given in detail. The names of the medicinal plants from which they get the genetic resources are also given in detail.

The issue is that these companies and trust have huge annual turnovers and are earning big profits from this business. But they do this by using the active biochemical components of the genetic resources of the medicinal plants. They are get information and lead from the centuries old traditional knowledge and utilise and subsequently commercialise them for profit making without paying for the use of society's intellectual property. That is the reason they did not obtain patents as the patents cannot be granted for TK. To do the production and selling business they do not need patent at all. The traditional knowledge of medicinal plants which they are using, are either in TKDL or is in public use, not documented so far. As was discussed earlier, this is the result of a major shortcoming of India's patent law or is the result of absence of any law on this subject. So nothing can prevent them from doing so without sharing benefits with the traditional knowledge holders or paying royalty to the country. In no uncertain terms it can be said that this type of bio-piracy (without patent) is encouraged, promoted, allowed or legalised in India.

EXAMPLES OF THE NON-PATENTED COMMERCIALISATION OF TRADITIONAL KNOWLEDGE

PART I: SOME AYURVEDIC PRODUCTS OF DIVYA PHARMACY-AS MANUFACTURING UNIT OF AYURVEDIC MEDICINES OF DIVYA YOG MANDIR TRUST

1. Divya Medohar Vati¹

Indications: Useful in obesity and hyperlipemia: (1) First removes the disorders of digestive system and then reduces the extra fat and makes the body beautiful, compact, lustreful and active. (2) Especially useful in thyroid disorders (hypo and hyper thyroid), rheumatic arthritis, joint pains, pain in lumbar region and knee joints. (3) Digests the medas (fat) in the body and nourishes the successive tissue elements viz. Bone, bone-marrow and sukra (semen). In other words, it converts the fat into other tissue elements as a result of which body becomes healthy and compact.

Serial No. K.	Common and Scientific name	Part Used	Indications of ingredients
1.	Amla-Emblica officinalis	Fruit	Tridoshshamak
2.	Baheda-Terminalia belerica	Fruit	Tridoshshamak
3.	Harad-Terminalia chebula	Fruit	Rechak, Tridoshhar
4.	Kutki-Picrorhiza kurroa	Root	Lekhan kaphaghan
5.	Nishoth-Operculina turpethum	Root	Lekhan, Rechak
6.	Viavidang-Embelia ribes	Seed	Kaphvatnashak,
7.	Harad chilka-Terminalia chebula	Fruit	Tridoshhar
8.	Commiphora mukul		Medohar pramha
9.	Shilajee Asphaltum	Sat	Stholya, Swedan
10.	Babul gond-Acacia arabica	Gond	Grahi

2. Divya Mukta Vati

¹ AUSHADH DARSHAN, A repertoire of proven miraculous ayurvedic remedies by Swami Ramdev, Edited by Vaidyaraj Acharya Balkrishan, Published by DIVYA PRAKASHAN, Divya Yog Mandir (Trust), Hardwar, 2005, Page 15.

Indication: Useful in hypertension. “Divya Mukta Vati is a unique ayurvedic solution for hypertension that cures high blood pressure, insomnia and anxiety within a person and this herbal medicine works effectively in treating all signs of hypertension such as anxiety, syndrome, sleeplessness, restless legs, etc. it has no side effects and highly effective herbal remedy for high blood pressure.”²

Serial No.	Common and Scientific name	Part used	Indications of ingredients
1.	Bramhi-Centella asiatica	Panchang	Uchh raktdav
2.	Shankhpushpi- Convolvulus pluricaulis	Panchang	Medhya, Anindra
3.	Urgandha- Acorus calamus	Root	Medhya, Apsmar
4.	Ganjvan- Onosoma bracteatum	Panchang	Anindra
5.	Jyotishmati- Celastrus paniculatus	Seed	Sheetal, Anindra
6.	Ashwgandha- Withania somnifera	Root	Uttejak, budhi smrati vardhak
7.	Giloy-Tinsopora cordifoli	Stem	Balya rasayan
8.	Praval pishti- Incinerated oxideof corraliumrubrum		Pittrog, Hridya
9.	Mukta pishti- Mytilus margaratferus		Pittrog, Anindra
10.	Bramhi-Centella asiatica		Uchh raktdav
11.	Jatamansi- Nardostachys jatamansi		Vatnadi, shamak
12.	Shankhpushpi- Convolvulus pluricaulis		Medhya, Anindra
13.	Sarpgandha- Rauwolfia serpentine		Anindra, Vatnadi, Shamak
14	Giloy-Tinsopora cordifolia		Balya rasayan

3. Divya Shilajit Rasayan

² Available at <http://www.home-remedies-world.com/divya-mukta-vati.html>. Visited on 20th August at 7.40 PM.

Indication: Useful in Diabetes, Fatigue & general debility.

“Divya Shilajeet Rasayan Vati Produces positive effect on vatavahini nadi (nervous system), kidneys and channels which carry virya (semen). Divya Shilajeet Rasayan Vati Vayu-alleviating, promoter of strength and the quantity of semen (spermatopoetic). Divya Shilajeet Rasayan Vati Particularly useful in night fall swapnadosh, prameha (obstinate urinary disorders including diabetes) and leucorrhoea.”³

Serial No.	Common and Scientific name	Part used	Indications of ingredients
	Ashvagandha- Withania somnifera	Dried root	Balya , Rasayan
	Triphla Churn- Emblica officinalis, Terminalia bellirica, Terminalia chebula	Fruit	Diabetes, Constipation
	Bhoomiamla- Phyllanthus urinaria	Whole Plant	Fatigue, general debility
	Shilajit- Asphaltum	Extract	Balya, Rasayan

4. DIVYA UDARA-KALPACHURNA⁴

MAIN INGREDIENTS	Yasti-madhu (mulethi), Misreya (saunf), Svarnapatri (sanay), Revana-cini, Sata-patri (rose-flower), Haritaki (janghai), Misti (sugar-candy) etc.
THERAPEUTIC USES	(1). It is pitta-alleviating, mild purgative and non-evacuating medicine. (2). Clears bowels and removes constipation, does not cause any type of burning or other complications in intestines (3) Stimulates digestion and digests ‘ama’ (undigested material caused by impaired digestion and metabolism).

5. DIVYA KAYA-KALPA KVATHA⁵

³ Available at www.herbalcureindia.com/swami-ramdev/divya-shilajeet-rasayan.htm. Visited on 21st August at 6 PM.

⁴ AUSHADH DARSHAN, A repertoire of proven miraculous ayurvedic remedies by Swami Ramdev, Edited by Vaidyaraj Acharya Balkrishan, Published by DIVYA PRAKASHAN, Divya Yog Mandir (Trust), Hardwar, 2005, Page 4.

⁵ Ibid, Page 4.

MAIN INGREDIENTS	Seeds of Bakuchi (bavachi), Cakra-marda (panavad), Haridra (turmeric), Daru-haridra, bark of Khadira, seeds of karanja, bark of nimba, Manjistha, Amrta (giloy), Kirata-tiktata (chirayata), Kutaki, Candana, Deva-daru, Usba, Drona-puspi, etc
THERAPEUTIC USES	(1). Cures all types of skin diseases, eczema, kustha (obstinate skin diseases including leprocy), Slipada (filariasis). (2). Cleans bowels and helps in obesity.

6. DIVYA GAISA-HARA CHURNA⁶

MAIN INGREDIENTS	Ajamoda (ajavayan), Marica (black pepper), extract of Lemon, Jiraka (cumin seed), Black salt, Jangha haritaki, Hingu etc.
THERAPEUTIC USES	(1). Digests food, so there is no occurrence of gas, acidity etc., caused by indigestion. (2). Instantaneously cures feeling of heaviness of abdomen, flatulence, colic pain and anorexia after food. (3). This churna keeps away the gas from abdomen.

8. Arogyavardhani Vati⁷

MAIN INGREDIENTS	Amalaki (Embelica officinalis), Vibhitaki (Terminalia bellerica), Haritaki (Terminalia chebula), Shudh Shilajeet (mineral pitch), Shudh Kaijal, Guggulu (Commifor mukul), Chitraka moola, Kutaki (Picrorhiza kurroa), Shudh Para, Shudh Gandhak, Loh Bhasm (purified, within permissible limit), Abhrak Bhasm (purified, within permissible limit).
BENEFITS	<ol style="list-style-type: none"> 1. Helps in increasing the immunity of the body 2. Removes toxins 3. Makes body pure and disease free 4. Extremely effective in liver diseases like jaundice, cirrhosis, fatty liver etc 5. It is also helpful in liver enlargement problem 6. It is also very beneficial in conditions of dropsy, nephritic syndromes, kidney problems, and hepatitis. 7. Arogyavardhani vati is very supportive in a condition of ascites, in which there is lots of accumulation of fluid takes place in body. 8. It is helpful in preventing body from various autoimmune diseases. 9. Arogyavardhani vati is very helpful in tackling all kind of skin problems 10. It is also beneficial in evading conditions like rashes on skin, 11. acne, pustules, psoriasis, dark spots etc. 12. Due to presence of herb Kutki (Picrorhiza kurroa) in Arogyavardhani vati, it is extremely supportive in

⁶ Ibid, Page 5.

⁷ Available at www.herbalcureindia.com/swami-ramdev/divya-arogyavardhani-vati.htm. Visited on 21st August at 6.10 PM.

	<p>rectifying indigestion as well as constipation condition in the body.</p> <p>13. It is also used in countering extra fat in the body by increasing the metabolic activity.</p>
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9. Shukra Shakti Vati⁸

MAIN INGREDIENTS	Elaichi (Elettaria Cardamomum), Chandan Sweta (Santalum Album), Talmakhana (Asteracantha Longifolia), Salam Mishri (Eulophia Campestris), Sweta Musli (asparagus Adscendes), Kaunch Beej (Mucana Pruriens), Mishri (Saccharum Officinarium)
BENEFITS	Increases sperm count, Enhances the sperm quality, Increases the quantity of the sperm, Helps in making sperm thick and dense. Increases the whiteness of the sperm, Increases libido for indulgence in sexual activity, Increase vigor and vitality, Removes premature ejaculation, Makes penile organ strong and hard, Beneficial in night fall problem.

10. Divya Asmarihara Rasa⁹

MAIN INGREDIENTS	Yava-ksara, Muli ksara, Sveta-parpati, Hajarala, Yahuda etc
THERAPEUTIC USES	(1).It dissolves deposited calculi and takes it out of the body; relieves complications as well as pains caused by it; removes oedema and pain of kidney; stops the tendency of stone formation. If used regularly for sometime, patient gets relieved for ever and no chance remains for stone formation. (2).Cures the burning sensation in the urine and takes out deposited toxins from the body.

11. Divya Stri Rasayana Vati¹⁰

MAIN INGREDIENTS	Putranjivaka, Sveta candana, Kamala, Daaru-haridra, Vamsa-locana, Silajatu (mineral pitch), Satavari, seeds of Sivalingi, Parasa pipala, Madhu-yasti, Triphala, Ambara-dhana, Bijabanda (seeds of bala), Amalaka, Asoka, Mayura-piccha bhasma, Naga kesara, Asvagandha, deva-daru, Guggulu (pure) etc

⁸ Available at www.herbalcureindia.com/swami-ramdev/divya-shukrashakti-vati.htm. Visited on 21st August at 6.30 PM.

⁹ AUSHADH DARSHAN, A repertoire of proven miraculous ayurvedic remedies by Swami Ramdev, Edited by Vaidyaraj Acharya Balkrishan, Published by DIVYA PRAKASHAN, Divya Yog Mandir (Trust), Hardwar, 2005, Page 2.

¹⁰ AUSHADH DARSHAN, A repertoire of proven miraculous ayurvedic remedies by Swami Ramdev, Edited by Vaidyaraj Acharya Balkrishan, Published by DIVYA PRAKASHAN, Divya Yog Mandir (Trust), Hardwar, 2005, Page 16.

THERAPEUTIC USES	(1).Cures all types of diseases of women viz., leucorrhoea, menorrhagia, irregularity in menstruation, pain in lower abdomen or lumber region. (2).Very useful in excessive bleeding during menstruation. (3).Useful in curing wrinkles on the face, dark circles below eyes, feeling of exhaustion in the body and laziness.
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12. Divya Churna¹¹

MAIN INGREDIENTS	Rose flower, Dry ginger, Rock-salt, leaves of Svarna patri (sanay), Jangha haritaki (harad), Krsna-bija (kala-dana), Misreya (saunf).
THERAPEUTIC USES	(1).Cures constipation and takes out the faeces adhered in the intestines, activates intestines so the internal layer of intestines does not allow the faeces to adhere there again. (2).Totally clears the stomach, removes disappointment and makes the body active. (3).Helps in curing abdominal pain, flatulence, heaviness and nausea.

13. Divya Pidantaka Rasa¹²

MAIN INGREDIENTS	Ajamoda (ajavayan), Nirgundi, Sobhanjana (sweet var), Asvagandha, Rasna, Musta, Maha-Vata-Vidhvamsana Rasa, Pravala pisti, Silajatu (Mineral pitch), Moti-pisti, Kupilu (pure), Hiraka bhasma, Dasa-mula, Amrta, Yograja guggulu, Mandura bhasma, Svarna-maksika bhasma etc.
THERAPEUTIC USES	Useful in Joint pain, Arthritis, Lumbar pain, Cervical spondylitis, Sciatica, gives immediate and permanent relief in all types of bodily pains.

14. Divya Trayodashang Guggulu¹³

MAIN INGREDIENTS	1.Babool ki phalli or bark, 2. Giloy, 3. Shatavari, 4. Goksuradi, 5. Nishoth (Kala/black), 6. Ashwagandha, 7. Rasna, 8. Saunth, 9. Kahchur, 10. Ajwain, 11. Shudh Guggulu
THERAPEUTIC USES	Triyodashang is known to treat all kinds of chronic Vata Dosha diseases. It helps in giving strength and support to the muscles and joints and helps in giving releif in joint pains. It helps in reducing the pain and stiffness of the joints and helps in the easy movement. It helps in

¹¹ Ibid, Page 6.

¹² AUSHADH DARSHAN, A repertoire of proven miraculous ayurvedic remedies by Swami Ramdev, Edited by Vaidyaraj Acharya Balkrishan, Published by DIVYA PRAKASHAN, Divya Yog Mandir (Trust), Hardwar, 2005, Page 8.

¹³ Available at <http://www.home-remedies-world.com/divya-trayodashang-guggulu.html>. Visited on 27th August 2011 at 7 PM.

	<p>reducing the inflammation of the joints of the body. It is also found to be very effective in treating the conditions such as hemiplegia, paraplegia etc. It is an effective product for people suffering from paralysis.</p> <p>Triyodashang also helps in treating the Sciatica and back pain. This herbal preparation helps to get rid of excessive pain in the back due to any strain, dislocation or sciatica. It is also helpful in treating the deformities of the bones.</p> <p>Triyodashang can be used to treat the nervous disorders such as parkinsons disease, Alzheimers disease etc. It is also a very good product for digestive disorders and helps in improving the process of digestion and assimilation. It helps in reducing the excessive fat from the body and helps in proper digestion of the food. It helps in increasing appetite. It also helps in increasing the number of red blood cells in the body and thus it helps in treating the anemia. Triyodashang also helps in increasing your immunity. It is effective for both acute as well as chronic condition.</p>
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15. Divya Sanjivani Vati¹⁴

MAIN INGREDIENTS	Bilva, Katuki, Amla, Haritaki, Ashwagandha, Madayantika (Henna), Shweta Chandana (Sandalwood), etc.
THERAPEUTIC USES	<p>Divya Sanjivani Vati acts as an energy booster for the body and help in removing the number of harmful chemicals and toxins from the body. It increases the capacity of the body to fight against any kind of infection or inflammation. It helps in the formation of WBC's which help to prevent any infection in the body. It does not allow any kind of germs of harmful bacteria to enter your body and bring out infection.</p> <p>Divya Sanjivani Vati is a wonderful product for coryza. It helps in controlling the symptoms of Flu such as watering from the eyes, blockage of the nose, cough, chronic cough, congestion in the chest, headache, vomiting, chills, fever etc. It also helps in reducing the irritation of the eyes and pain in the muscles of the face.</p> <p>Divya Sanjivani Vati is also a very good product for other respiratory infections such as asthma, bronchitis, tuberculosis, congestion of the chest, chronic cough due to accumulation of mucus in the chest. Divya Sanjivani Vati acts as a rejuvenator for your body and helps in the growth of new healthy cells within your body.</p> <p>Divya Sanjivani Vati is a product for people who suffer from allergic rhinitis. It also helps in reducing the symptoms of sinusitis. It relieves the pain the facial muscles produced due to inflammation of the sinuses. People who are allergic to dust, smoke etc can use this product effectively to stop the allergic reaction in their body when they are exposed to a particular allergen.</p>

16. Divya Singhnad Guggulu¹⁵

¹⁴ Available at <http://www.home-remedies-world.com/sanjivani-vati.html>. Visited on 27th August 2011 at 7.15 PM.

COMPOSITION	Guggulu resin (Commiphora Mukul), Amalaki fruit (Emblica Officinalis), Bibhitaki fruit (Terminalia Belerica), Haritaki fruit (Terminalia Chebula), Gandhak. All these natural herbs are safe and effective and do not produce any side effects.
THERAPEUTIC USES	<p>Divya Singhnad Guggulu is found to be an effective anti-inflammatory. Hence, it is found to be very effective herbal remedy for treating joint pains due to inflammation. Divya Singhnad Guggulu is a useful for treating the arthritis and other joint pain conditions. It helps to reduce the pain and swelling of the affected joints. It increases the oxygen to the cells and helps in treating the inflammation of the affected joints. Divya Singhnad Guggulu gives nourishment to your body cells and makes your joints strong. It is a natural anti-infective, anti-inflammatory, analgesic herbal product. Divya Singhnad Guggulu also helps in improving the appetite thus giving your body strength and restores the general weakness of the body and gives energy to work in an optimum way.</p> <p>Divya Singhnad Guggulut is found to be effective for inflammation anywhere in the body. It helps quickly in reducing the pain and swelling caused due to inflammation of any part of the body. It is a very good natural and herbal product for conditions such as arthritis, gout, muscle pains, osteoarthritis. Divya Singhnad Guggulu is also a very good product for pain in the back due to any reason. It also helps in treating the stiffness of the neck due to cervical spondylosis.</p> <p>Divya Singhnad Guggulu helps in the removal of the harmful toxic substances from your body and makes the blood pure.</p>

17. Divya Punarnavadi Mandur¹⁶

COMPOSITION	The root of the herb Punarnava, baybiding, katuki and mandur bhasma.
THERAPEUTIC USES	<p>This herbal medicine has the efficiency to boost the quality of six out of seven categories of tissues present in our body. The tissues are blood (rakta dhatu), fat (meda dhatu), nerves (majja dhatu), nutrient plasma (rasa dhatu), reproductive fluids (shukra dhatu) and muscle (mamsa dhatu).</p> <p>Divya Punarnavadi Mandur can cure the kidney disorders and prevent the body from other diseases. The intake of this herbal medicine helps to detoxify the overburdened kidneys and eradicate the excess fluid. Besides, the medicine is very in the treatment of inflammation, piles, abdominal pains, abdominal tumors and anaemia.</p>

18. Divya Yauvanamrta Vati¹⁷

¹⁵ Available at <http://www.home-remedies-world.com/singhnad-guggulu.html>. Visited on 28th August at 10.45 AM.

¹⁶ Available at <http://www.home-remedies-world.com/divya-punarnavadi-mandur.html>. Visited on 28th august at 10.45 AM.

COMPOSITION	Jati-patri, Jati-phala, Kesara, Junda-bedastara, Svarna-bhasma, seed of Atma-gupta, Akara-karabha, seed of Bala, Satavara, Makaradhvaja, etc
THERAPEUTIC USES	(1).Exceedingly strength promoting & nourishing for persons whose body is exhausted & emaciated; and also useful for persons who are entering into old age. (2).strengthens heart & brain, promotes sexual desire and makes the body active. (3).The best spermatogenetic, strength promoting, nourishing, aphrodisiac, promoter of ojas (vital essence), tejas (splendour), luste & youthness as well as curative of impotency.

19. Divya Avipattikar Choorna¹⁸

COMPOSITION	* Saunth, * Pipal, * Kali mirch, * Hardh, * Baheda, * Amla, * *Nagarmotha * Vid Namak, * Via Vidangh, * Chotey elachi, * *Tejpata
THERAPEUTIC USES	* Avipattikara churna is known to benefit individual suffering from acidity or hyperacidity. * Avipattikara due to its carminative effect this calms down the digestive system and thus balances the system. * Avipattikara is also beneficial against Pre Menstrual Syndrome (PMS). * Avipattikara is also known to be comprising of laxative properties. * Avipattikara also acts as appetizer. * Beneficial in gastric and duodenal ulcers. * Beneficial in dyspepsia, constipation and also in piles. * Works as an excellent carminative. * Avipattikara is beneficial in various types of Pitta vicars i.e. diseases resulted from Pitta Dosha. * Avipattikara even helps in providing relief from constipation. * Very beneficial in diarrhoea. * It also helps in increasing the digestives strength. * If suffering from constipation this is an excellent herbal remedy. * Is also very beneficial in gastritis. * Avipattikara brings about treatment of hemorrhoids. * Also works as an excellent antidote in various diseases. * Avipattikara is of great benefit in intestinal obstruction. * Avipattikara also benefits in diabetes mellitus. * As an anti-oxidant prevents premature aging.

¹⁷ AUSHADH DARSHAN, A repertoire of proven miraculous ayurvedic remedies by Swami Ramdev, Edited by Vaidyaraj Acharya Balkrishan, Published by DiVYA PRAKASHAN, Divya Yog Mandir (Trust), Hardwar, 2005, Page 10.

¹⁸

Available

at

http://divyapharmacystore.com/Acidity/divya_avipattikar_choorna.html. Visited on 10th July, 2011 at 10.30 AM.

	* Detoxifies and cleanses the whole body.
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20. Divya Chandraprabha Vati¹⁹

COMPOSITION	<ul style="list-style-type: none"> * Vach, * Nagar Motha, * Chiraiyata, * Giloy, * Devdaru, * Haldi, * Atis, * Pipali mul, * Bark of Chitrak mul, * Amla, * Via * Vidangh, * Chawaya * Choti Pipali, * Saunth, * Kali mirch or * black pepper, * Sajjikhar * Yawkhsar, * Choti elachi (seeds), * Shwet chandan, * Tej patra * Dal chini, * Badi elachi, * Shilajeet Bhasm
THERAPEUTIC USES	<ul style="list-style-type: none"> * Chandra Prabha acts as a Rasayana or rejuvenator for the body. * Chandra Prabha is beneficial in dysuria. * Benefits in burning sensation during urination, in urinary tract infections, and semen infections. * Chandra Prabha brings about the purification of the male and female genital tracts. * Chandra Prabha works as an antiseptic against the whitish discharge from vagina (leucorrhoea). * Chandra Prabha also helpful in treatment of first and second stage syphilis. * Increases immunity. * Chandra Prabha helps in controlling premature ejaculation. * This is extremely beneficial in children suffering from various handicaps. * Chandra Prabha is also found useful in muscular dystrophy. * Also benefits in various urinary disorders. * Is also beneficial in various types of genital disorders. * Chandra Prabha provides strength to the body and also helps in its nourishment. * This is also helpful in the maintenance of lower glucose levels in diabetic patients. * Chandra Prabha is extremely beneficial in various types of renal disorders. * Chandra Prabha provides strength to the uterine muscles. * Brings about strength in the blood vessels. * Brings about the removal of various toxins from the body. * Is very useful in muscular as well as joint pains. * Chandra Prabha provides relief in cellulites.

21. Divya Gokshuradi Guggulu²⁰

COMPOSITION	<ul style="list-style-type: none"> * Goksur panchang, * Saunth, * Mirch, * Pipal, * Hardh * Baheda, * Amla, * Nagar Motha, * Aerand Taila
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¹⁹ Available at http://divyapharmacystore.com/Urinary-Problems/divya_chandraprabha_vati.html. Visited on 11th July, 2011 at 10.35 AM.

²⁰ Available at http://divyapharmacystore.com/divya_gokshuradi_guggulu.html. Visited on 11th July 2011 at 11.15 AM.

THERAPEUTIC USES	<ul style="list-style-type: none"> * Goksuradi strengthens and rejuvenates kidneys and prostate. * Goksuradi detoxifies the urinary tract. * Decreases the risk of stone formation. * Goksuradi maintains a proper size & function of prostate. * Benefits in chronic renal failure. * Goksuradi enhances sexual vigor and control. * Goksuradi is known to be having an anti emetic property. * Goksuradi helps in controlling frequent urges of micturation. * Also benefits in cystitis. * Goksuradi benefits in premature ejaculation. * Goksuradi is beneficial in incontinence. * Also used for nocturnal emissions or premature ejaculations. * Goksuradi is used for treatment of diabetes. * Goksuradi is beneficial in individuals suffering from various types of urinary disorders. * Goksuradi benefits in urinary or kidney stones. * In various types of genital diseases. * Goksuradi is helpful in increasing the sperm count. * Goksuradi is known for its benefits in dysuria and urine retention.
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**PART II: SOME OF THE ZANDU AYURVEDIC MEDICINAL PRODUCTS-
ZANDU PHARMECEUTICAL WORKS²¹**

SERIAL NO	AYURVEDIC PRODUCT'S NAME	BENEFITS	DESCRIPTION
1.	Drakahasav	Reisins are laxative demulcent and expectorant, Grapes are nourishing and they support the body through illness especially of the gastro intestinal tract and liver. Because the nutrient content of grapes is close to that of blood plasma, grape fasts are recommended for detoxification	Grapes and Raisins (dried grapes) have been highly esteemed of all desert fruits. They are recommended in certain forms of anaemia and wasting diseases. This is prepared by self generated alcoholic process to retain water soluble as well as alcohol soluble principles of medicinal herbs.
2.	Gulbahar	It is a rose drink with a blend of unique medicinal herbs, Gulbahar meets the everyday needs of an individual, in strength, the digestive system and to relieve the strain on the nervous system due to life style. Gulbahar is a southing solution to daily stress, refreshing and re-energizing the body naturally. Gulbahar can be taken regularly with milk, ice-creams, custards, party cakes, fruit-salads, etc.	The fibrous wiry roots from the rhizome of A. Muricatus find application as a cooling, grateful refreshing herbal drink.

²¹ Available at <http://www.zanduayurveda.com/home.php> and <http://www.zanduayurveda.com/home.php#>. Visited on 15th August, 2011 at 1.30 PM.

3.	Kesari Jivan	An improved formula of Chyavanprash with saffron. Delicious Kesari-Jivan promotes health, vigour and energy in diseased and convalescent conditions. Kesari-Jivan builds immunity against infection and keeps body tissues young. Used as general tonic, Kesari-Jivan adds happiness to life.	In the past, saffron was credited with an immense array of health benefits. It has power to quicken the spirits and the virtue thereof pieces by and by to the heart proroking laughter and marriment. Saffron confers Kesari Jivan with the power as astringent, stimulant, carminative and aphrodisiac.
4.	Khadiradi Gutika	Astringent, Antiseptic, and Expectorant medicinal herbs in Khadiradi tablets are useful for throat disorders. They are mucolytic and promote sweetness of voice. Khadiradi is good for stomatitis and even freshen ups the breath.	Catechu is widely used as a component of betel-leaf chewed in India. It is used for the local treatment of otitis and otorrhoea. It is also useful in dental, oral throat and tonsillar infections. Flavonoid principles of catechu have a significant anti-inclammatory effect.
5.	Rhumayog Tablets	Rhumayog is the time tested and safe Ayurvedic anti-inflammatory and anti-rheumatic drug. Rhumayog relieves joint pain and swelling fast without G.I. side effects. A herbal NSAID (Non steroidal anti inflammatory drugs) Rhumayog is safe for prolonged use.	Yograj Guggul (Commiphora mukul) Guggulu, the oleo-resin from C. Mukul has been mentioned in the Atharvaveda, and in the early medical on the basis of its anti-inflammatory potential texts of Charaka, Shushrut: the Samhitas and Nighantus the Guggulu find its application in various clinical types of arthritis. In patients with coronary insufficiency, and ischemic heart disease the oleoresin of guggul has a cholesterol lowering effect. It has hypolipidaemic and anti-inflammatory effect. Guggulosterones are active principles.
6.	Rhumayog with gold	Rhumayog with gold is an orally effective format gold. Rhumayog with gold as an effective MARD corrects immaunological abnormalities and alters the disease process favourably, preserves joint structure, prevents further damage and ensured greater mobility.	Gold in the form of Suvarnabhasma, a finely micropulverised colloid form, selectively accumulates in the lysosomes of the synovial cells of inflamed joints. In addition, Gold inhibits prostaglandin synthesis and interferes with complement activation. The combined effect of both Yog

			guggul, and gold in Rhumayog with gold preserves joint structure and prevents further progression of the disease and further damage.
7.	Rhumasyl oil	Rhumasyl is a powerful and safe natural Ayurvedic rubefacient. Rhumasyl has prompt transdermal penetration and quick vasodilation and hence it is a potent and powerful muscle relvant. It is powerful and safe. Rhumasyl combines four most potent ingredients of natural oleation therapy for thenmatic disorders.	Narayan tail in Rhumasy Liniment & Oitment combines herbs which are anodyne, demulcent and emollient. Dashmoola (Ten roots) in the oil effectively tackle inflammation on all fronts.
8.	Satavarex Granules	Satavarex is the trusted and safe non-normonal, natural galactagogue. Rich in shatavari, a medicinal plant, Satavarex is a natural galactagogue to ensure complete care of Motherhood. Satavarex stimulates the natural process of lactation.	Shatavari is mentioned as galactagogue by Bhavmishra. Charaka and Vagbhat mentions it as adaptogenic and rejuvenative. A racemosus has anabolic properties and is used as general tonic. A racemosus this fulfills the needs in motherhood from start to finish.
9.	Sudarshan Churna, Tablets , Ghanvati	A definite remedy for pyrexia, sudershana contains bitter ingredients 53 in number. Swertia Chirata is the main herb. Sudarshana has capacity to even threat fever associated symptoms as dyspepsia, anorexia fatigue and Nausea.	The whole plant is used medicinally but the root is rich in active principles. It is bitter. It has long been used in Ayurveda as bitter tonic, anthelmintic and antipyretic. Swertia chirtata is also recognized by British and United state Pharmacopoeiae. Unlike, most other medicines of this class, it does not constipate the bowels, but tends to produce a mild laxative effect. It promotes the flow of bile. In gastrointestinal disorders it is used as digestive. It finds use as an anti-malarial.
10.	Trishun Tablets	Herbal Trishun strengthens immunity and fights cold. To avoid cold effectively, take Trishun at the first sign. If the cold is severe, Trishun provides rapid relief. Trishun taken with warm water, tea or coffee, treats cold and	Combines benefits of Sudershan Churna and Tribhuvan Kirti Ras. Sudarshan Churna has principle herb Swertia Chirata (Described Above) whereas Tribhuvan Kirti Ras combines medicinal plant

		influences effectively.	which has capacity to relieve pain, and fever and contains piper longun (describes in sitopaladi Churna) to enhance immunity.
11.	Trishun Rub	The decogesian with eucalyptus. Works efficiently, to empower you when the season changed. Works instantly.	Eucalyptus glabulus, a traditional aboriginal remedy, is a powerful antiseptic used all over the world for relieving coughs and colds, sore throat and other infections. It is warming and stimulating and for many people its scent conjures up days spent in bed during childhood with eucalyptus and other oils smothered on the chest. Eucalyptus is a strong expectorant, suitable for chest infections including bronchitis and pneumonia.
12.	alpitone	Available as syrup, Alpitone promotes health, energy and growth of an individual. Alpitone shares the ancient secrets of health since it combines adaptogenic and rejuvenative herbs. Alpitone contains digestion enhancing herbs which also stimulate appetite. It fights fatigue and exhaustion. Rich in natural anti-oxidants, Alpitone boosts immunity. Alpitone is pleasant tasting: with the base of drakshashav. Additionally, Alpitone helps combat stress.	Popularly known as 'Ashwagandha' in Ayurvedic text books, indicating equine odour of the plant. Withania Sannifera, represents 'winter cherry' in central and Southern Europe. Roots of the plant find application as medicine. Pharmacologically active constituents are withanolides which confer adaptogenic and rejuvenative properties to the plant.
13.	Almalio	Combines herbs which are nutritive, in a non-greasy oilybase, for hair. Regular usage of Almalio leads to a crown of strong, healthy beautiful hair. Milk, a unique ingredient in Almalio, emulsifies and enhances the efficiency of natural vitamins and minerals, helping disperse nutritional values evenly and effectively all over the scalp. Almalio is enriched with natural vitamins and properties of time tested herbs not only to	The Sanskrit name mentioned in Ayurvedic text books is 'Kesharaj'; meaning the king of hair. All over India, the plant is used in herbal oil to rejuvenate healthy and black hair. In the oil base the plant exerts it's mild tranquilising effect. The plant contains 'Saponins' which aid the absorption of other nutrients in oil.

		strengthen and promote healthy hair growth but to keep the head cool.	
14.	Brento	Available both as syrup and tablets, Brento is a Cerebral activator and cerebral nutrient. Brento corrects impaired cognitive function. Brento improves overall mental performance, memory, concentration and learning abilities	The cerebral activation and nourishment is attributed to 2 plants: Convolvulus Mycrophyllus and Hydrocotyle Asiatica. Convolvulus Mycrophyllus known as Shankhapushpi, as described by Charaka, enhances intelligence and improves memory. It is a 'Medhyarasayan'. The whole herb is used medicinally in the form of decoction. Hydrocotyle Asiatica popularly known as 'Brahmi' is advocated as 'Rasayan' by all authorities in Ayurveda - Charaka, Shushruta and Vagbhata. It promotes brain functions and improves mental strength.
15.	Chandra-prabhavati	This tinny pill of 400 mg has a medicinal power to ensure complete health. The ingredients work on the entire systems to provide tonic effects. It is a wonderful remedy for urinary tract disorders and diabetes. It combines rejuvenating and aphrodisiac herbs.	It is a bituminous substance, which is a compact mass of vegetable organic matter composed of dark red gummy matrix interspersed with vegetable fibres, sand and earthy matter. The black variety is the one most commonly used after purification. Charaka says - There is hardly any curable disease which cannot be controlled or cured with the aid of Shilajit. It is specially employed in genitor-urinary diseases and in diabetes
16.	Chyavanprash	The nuttains a tonic which strengthens the constitutions of an individual. It comprises health enhancing herbs build prevent aging. Rich in antioxidants it contains the goodness of Ghee enhances the medicinal properties of the herbs.	The fruit of P. Embilca is given to ally the effects of aging and to restore the organs. As Ayurvedic medicines, the fruit juice is given to strengthen the pancreas of diabetics. The juice is also given to treat eye problem, joint pain and diarrhoea and dysentery. P. Embilca is a Rasayan. Regular usage confers longevity and weight gain. It improves blood picture. The fruit is a rich source of vitamins

			C. It features in a 7th century Ayurvedic Medical text. The sage Muni Chyavan reputedly restored his vitality with this fruit
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PART III: SOME OF THE DABUR'S AYURVEDIC MEDICINAL PRODUCTS-DABUR INDIA LIMITED²²

1. Dabur-Broncorid

Brief description	Broncorid is a unique herbal combination of drugs, which manifests Anti histaminic, anti-inflammatory, mucolytic, expectorant and bronchodilator effect. Broncorid syrup has been enriched with Shireesh Chaal, which has a Sodium Cromoglycate like activity.
Composition	Shireesh Chaal (<i>Albizzia lebbeck</i>) Kantakari (<i>Solanum xanthocarpum</i>) Gokshur (<i>Tribulus terrestris</i>) Yashtimadhu (<i>Glycyrrhiza glabra</i>) Karkatshringi (<i>Pistacia integrima</i>) Vasaka leaves (<i>Adhatoda vasica</i>)
Pharmacology	Expectorant, Mucolytic, Bronco-dilator, Anti-spasmodic, Anti-inflammatory and Anti-allergic
Properties	Albizzia lebbeck - Inhibits degranulation of mast cells, synthesizes reaginic type antibodies and has a pharmacological action like Disodium Cromoglycate. Solanum xanthocarpum : Increases FEV1, Anti allergic Tribulus terrestris : Bronchodilator Glycyrrhiza glabra : Anti-inflammatory, Pharyngeal Demulcent Pistacia integerrima : Expectorant Adhatoda vasika : Bronchodilator, Mucolytic, Expectorant, Anti allergic
Indication	As a prophylactic in Asthma management, Breathless ness & Cough associated with Bronchial Asthma, Allergic bronchitis, COPD

2. Dabur- Lipistat

²² Available at <http://www.dabur.com/default.aspx> and <http://www.dabur.com/ayurveda>. Visited on 16th August 2011 at 3.30 PM.

Brief description	Lipistat offers a potent combination of Ayurvedic herbs to promote Hypolipidemia and to maintain an optimum cardiac function. Lipistat brings down high cholesterol, triglycerides as well as LDL and increases HDL levels in the blood thereby promoting a healthy blood circulation.
Composition	Arjuna-Terminalia ai Pushkarmoola-Inula Osa Guggulu-Commiphokul
Pharmacology	Cardio-protective, Anti-anginal and Hypolipidemic.
Properties	Increases HDL to Total Cholesterol ratio Accelerates conversion of LDL to Cholesterol Lowers Beta-lipoprotein lipid levels Flavonoids and OPCs (Oligomeric Proantho cyandin) provide free radical scavenging and vascular strengthening activity. Saponin glycosides provide positive inotropic effect Promotes Healthy Prostaglandin levels Exerts potent cardio protective activity Increases excretion of Cholesterol and Bile acids Increases plasma fibrinolytic activity Arrests the development of arteriosclerosis
Indication	Hyperlipidemia, Prophylaxis in IHD, MI and Stable Angina

3.Dabur-Madhuvaani

Brief description	Madhuvani is a blend of age-old traditional cough formula Sitopaladi churna with honey.
Composition	Sitopaladi churna-basis Sharangdhar ! Elaichi-Elettaria cardamomum Vanslochan-Bambusa arundinacia Dalchini-Cinnamomum zeylanicum Madhu Sharkara Gel base
Pharmacology	Expectorant, Anti-allergic and Decongestant

Properties	Effectively controls cough Relieves throat irritation Reduces chest congestion Removes respiratory distress
Indication	Productive and Unproductive cough

4.Dabur- Mensta

Brief description	Mensta is the first Non Hormonal Menstrual modulator with anti spasmodic activity. The menstrual modulation activity enables Mensta to be useful in DUB as well as Oligomenorrhoea.
Composition	Ashok Chaal (Saraca indica) Dhataki Pushp (Woodfordia fruticosa) Nishoth (Ipomoea turpethum) Kalaunji (Nigella sativa) Ajwain (Tachyspermum ammi) Shunthi (Zingiber officinale) Amla (Emblica officinalis) Bahera (Terminalia belerica) Hareetaki (Terminalia chebula) Mustak (Cyprus rotundus) Safed Jeera (Cuminum cyminum) Vasaka (Adhatoda vasica) Pippali (Piper longum) Ghrit Kumari (Aloe vera) Daruharidra (Bereberis aristata) Chandan Red (Pterocarpus santalinus) Amrasthi (Mangifera indica) Hing (Ferula asafetida) Madhu (Honey)
Pharmacology	Menstrual modulator, Antispasmodic, Anti inflammatory, Uterotonic
Properties	Uterine tonic & Anti- Oxytocic: Ashoka & Vasaka Anti-inflammatory Shunthi & Mustaka

	<p>action: Phyto estrogenic action: Safed Jeera:</p> <p>Antispasmodic action: Kalaunji, Ajwain & Hing</p> <p>Antioxidant action: Triphala</p> <p>Styptic and Astringent action: Dhataki and Amrasthi</p>
Indication	<p>Relieves Dysmenorrhea Corrects DUB Strong estrogenic like activity Restores Harmony of Womens' Health Recommended in Poly Cystic Ovary Syndrome (PCOS)</p>

5.Dabur-Rheumatil-gel

Brief description	Rheumatil gel has a special significance in the management of painful conditions of all small and large joints. Rheumatil is quickly absorbed and relieves joint pain and stiffness. It contains more than 90% active ingredients and is enriched with Kesar and milk, which ensures quick absorption and rapid onset of action.
Composition	<p>Maha narayan tail Visha garbh tail Pudina satwa Karpoor Gandhapura tail Cajeput oil Katuveera satwa</p>
Pharmacology	<p>Mahanarayan and Vishagarbh oil: Anti-inflammatory action Gandhapura oil & Karpoor: Counter Irritant Pudina for quicker absorption and rapid action Katuveera: Inhibits P- component of pain mechanism</p>
Indication	<p>All arthritic conditions associated with joint pain, swelling and stiffness Muscular Strain & Sprains Other traumatic injuries associated with pain and swelling. Traumatic inflammatory conditions e.g. fibrositis, Bursitis, Capsulitis, Tendinitis, Synovitis, Sciatica and Sports injuries.</p>

6.Dabur-Stresscom

Brief description	Stresscom offers Ashwagandha (Withania somnifera) extract capsules standardized to 4.5% Withanoloides. The lipid form enables Stresscom to provide incomparable benefits in various psychosomatic health complaints.
Composition	Ashwagandha (Withania somnifera) root extract

Pharmacology	Adaptogenic, Anti-oxidant, Immuno-modulatory, Anxiolytic & Anti-inflammatory
Properties	Effectively controls day-to-day stress Improves Physical stamina and mental alertness Improves body Immunity and acts as anti-oxidant Rejuvenates body tissues during convalescence better interaction with friends and family Restores Physical and mental health
Indications	General Weakness Chronic fatigue syndrome Anxiety Neurosis Stress Insomnia Restores Physical and mental health

7.Dabur-Trifgol

Brief description	Trifgol is an Isabgol based natural fiber laxative, which also contains the goodness of Triphala (Amlaki, Hareetaki and Vibheetaki). Besides a laxative action Trifgol has other multiple health benefits as well.
Composition	Isabgol powder Triphala powder Excipients and flavours
Pharmacology	Bulk forming laxative, Hypo Glycaemic, Hypocholesterolaemic
Properties	Isabgol: .I transit time and increases stool weight, Hypocholesterolaemic effects, Useful in Ulcerative colitis. Triphala: (1) Hareetaki (Terminalia chebula) -Shortens Gastric emptying and have prokinetic effect on intestinal motility, Increases Cardiac output and force of contraction without increasing heart rate, Cytoprotective activity inhibits the development of duodenal ulcer. (2) Vibheetaki (Terminalia bellerica) -Antibacterial activity against E coli, Hepatoprotective activity, Prevents fatty liver, Stimulates bile secretion. (3) Amlaki (Phyllanthus Emblica) -Antioxidant activity, Lipid lowering and Anti- Atherosclerotic activity, Hepatoprotective activity.
Indications	<ul style="list-style-type: none"> • Constipation • Fecal incontinence • Irritable Bowel Syndrome (IBS) • Diverticular diseases • Hemorrhoids or Piles • Impaired liver functions • Ulcerative colitis & Duodenal Ulcer • Hyperlipidemia • Non-insulin Dependent Diabetes with or without hypercholesteromia <p>Contra -indications: Intestinal obstruction, Faecal impaction, Undiagnosed change in bowel habits, Undiagnosed abdominal pain, Acute Abdomen</p>

8.Dabur Shankha Pushpi

Ingredients and their medicinal values	General benefits
Shankha Pushpi: Traditionally known to enhance children's intelligence Brahmi: Traditionally known to enhance children's intelligence	Combination of Brahmi and Shankha Pushpi for the mental development of children.

9. Dabur Shilajit Gold

Ingredients and their medicinal values	General benefits
Shilajit, Swarna Bhasma (Gold), Kesar (Saffron), Kaunch Beej (Alkushi), Gokhshru, Ashwagandha, Lavanga, Safed Mushali, Jaiphal, Akarkara, Barahikand, Bedarikand, Yashada Bhasma, Dalchini, Karpur, Rajat Bhasma & Nutmeg oil.	Shilajit: brings about balanced and harmonious health. It acts as a restorative tonic, slowing down wear and tear of body tissues, which in turn delays ageing. Shilajit increases the vigour & vitality. Gold: increases strength, improves vigour and vitality. Saffron: A nervine tonic; has anti-fatigue property. Alkushi: helpful in spermatorrhea. Ashwagandha: Rejuvenating properties. Safed Mushali: Well-known nutritive tonic

10.Dabur Active Antacid

Composition	Benefits
Trivrit Bhringaraja Guruchi Yashti Khatika	It is an effective and powerful Ayurvedic medicine, enriched with healing ingredients for quick and effective relief from acidity and gas.

11.Dabur's Honitus Cough Drops

Ingredients	Benefits
Shudh Madhu (Honey), Pudina Satva (Mentha Oil), Nilgiri Tail (Eucalyptus Oil) Karpoor (Camphor),	It provides an effective relief from sore throat, cough and bad breath, without any side-effects.

12.Dabur Chyawanprash

Ingredients and their medicinal values	General benefits
<p>1. Amla-Amla fruit is rich in Vitamin C and protin. Tannins present in it retard the oxidation of Vitamin C. It is well known fact that protin decreases Serum Cholesterol in human beings. It inhibits Platelets aggregation and lowers Cholesterol levels. It is a tonic, has a haematinic and lipalytic function useful in Scurvy and Jaundice, prevents indigestion and controls acidity as well as is a natural source of anti-aging. Amla is one of the supplements used in hyperacidity and liver disorders. It stops pre-mature graying or hair loss, encourages nail and hair growth, improves eye-sight, cleanses the mouth and nourishes the teeth, cleanses the intestine and regulates blood sugar.</p> <p>2. Ashwagandha- It modulates body functionally so as to control strss and regulates immunity.</p> <p>3. Pippali- It helps in cough and other resipiratory problems and also strengthens lungs functions.</p> <p>4. Keshar- It energises the body and also makes the skin looks radiant.</p> <p>5. Guduchi- It makes stronger both physically and mentally and also has astringent properties which rejuvenate immune system.</p> <p>6. Karkatsringi- It is beneficial for recurrent cough and cold.</p> <p>7. Satavari- It helps to promote general health and increases stamina. It also improves intelligence and very useful in imoroving eyesight.</p> <p>8. Vidarikand- It helps to fight general weakness and gives strength and stamina.</p>	<p>Dabur Chayawanprash for stronger immunity- Immunity is that mechanism by which body of human beings is protected from invasion of external bodies through its own physiological or artificial means. The immune system is the collection of organs and tissues involved in the adaptive defence of a body against foreign biological materials. It may be broken down into the adaptive immune system, composed of four lymphoid organs (thymus, lymph nodes, spleen and sub-mucosal lymphoid nodules) and the group matile cells that are involved in the body's defence against foreign bodies. Chayawanprash may also be used to refer to the totality of a body's defence systems, encompassing both the adaptive immune systems.</p>

PART IV: SOME OF THE HIMALAYA'S AYURVEDIC MEDICINAL PRODUCTS-THE HIMALAYAN DRUG COMPANY²³

1.Himalaya amalaki

Common and	Brief description	Action	Indications
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²³ Available at <http://www.himalayahealthcare.com/>. Visited on 17th August at 9.30 PM.

Scientific name of the herb			
Amla-Emblica officinalis	Amalaki or Indian Gooseberry fruit has the richest source of natural Vitamin C. It is an essential component of Chyavanaprasha, a well-known rejuvenative tonic, and Triphala, a digestive formula.	A natural, efficacious and safe herb. It is an antioxidant with the richest natural source of Vitamin C and other antioxidant polyphenols like <i>Emblicanins</i> . It helps in protecting cells against free radical damage and thereby helps in the management of premature aging. It provides effective resistance against many diseases especially of the respiratory tract.	1.Cough, cold, sore throat & other respiratory tract infections 2.Premature aging 3.Repeated episodes of respiratory infections, as an immunomodulat 4.Dyspepsia & Hyperacidity 5.Skin disorders

2.Himalaya arjuna

Common and Scientific name of the herb	Brief description	Action	Indications
Arjuna- Terminalia arjuna	The bark of Arjuna tree is researched as an anti-ischemic and cardioprotective agent useful in hypertension and ischemic heart disease.	A unique herb that helps maintain a healthy heart and reduces the effects of stress and nervousness. Arjuna promotes effective cardiac functioning and regulates blood pressure. It improves the blood circulation to the heart and also tones the heart.	<ol style="list-style-type: none"> 1. As an adjuvant in ischemic heart disease 2. Hypertriglyceridemia (High level of triglycerides in blood) 3. Mild to moderate hypertension 4. As a preventive medicine in individuals susceptible for Ischemic Heart Disease

3.Himalaya ashvagandha

Common and Scientific name of the herb	Brief description	Action	Indications
Ashvagandha- Withania somnifera	Ashvagandha is a well known anti-stress herb. The species name <i>somnifera</i> means "sleep-bearing" in Latin, indicating it was considered a sedative, but it has been also used for sexual vitality and as an adaptogen. It is also popularly known as Indian Ginseng.	A unique herb with anti-stress adaptogenic action that leads to better physical fitness and helps cope with life's daily stress. It increases physiological endurance and protects against effects of stress. It is especially beneficial in stress related disorders such as arthritis, hypertension, diabetes, and premature aging	1.General debility 2.As a daily health supplement to cope with life's daily stress 3.In the prevention and treatment of many stress related diseases like arteriosclerosis, premature aging, arthritis, diabetes, hypertension and malignancy 4.As an aphrodisiac

4.Himalaya bael

Common and Scientific name of the herb	Brief description	Action	Indications
Bael- <i>Aegle marmelos</i>	Bilva's fruit is popularly used in diarrhea, dysentery and GI disorders and has digestive and carminative properties. It helps in the healing of ulcerated intestinal surfaces. It possesses anti-viral, anthelmintic and anti-inflammatory properties and has appreciable activity against intestinal pathogenic organisms.	The herb has anti-spasmodic, anthelmintic properties that ensure optimum gut functioning.	<ol style="list-style-type: none"> 1. Diarrhea and dysentery 2. Worm infestation 3. Colitis

5.Himalaya brahmi

Common and Scientific name of the herb	Brief description	Action	Indications
Brahmi- <i>Bacopa monnieri</i>	Brahmi or <i>Bacopa monnieri</i> , has been used for centuries to help benefit memory capacity, increase	Brahmi is a nervine tonic that enhances learning, academic performance and improves mental	<ol style="list-style-type: none"> 1. Memory disturbances 2. Behavioral disorders

	concentration, and reduce stress-induced anxiety. It is used as a nootropic, a drug that enhances cognitive ability.	ability. It acts as an anti-anxiety agent and is used in several mental disorders. It also calms restlessness in children.	
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6.Himalaya gokshura

Common and Scientific name of the herb	Brief description	Action	Indications
Gokshura- Tribulus terrestris	<i>Tribulus terrestris</i> or Gokshura is a herb useful in depressed libido and erectile dysfunction.	Gokshura improves the sexual desire and drive, which subsequently improves the sexual performance	<ol style="list-style-type: none"> 1. Depressed libido 2. Erectile dysfunction

7.Himalaya guduchi

Common and Scientific name of the herb	Brief description	Action	Indications
Guduchi- <i>Tinospora cordifolia</i>	<i>Tinospora cordifolia</i> is used to improve the immune system and the body's resistance to infections. It is also an effective immunostimulant. The plant is also used in dyspepsia, and various types of fever.	Guduchi helps increase the effectiveness of protective white blood cells and helps in building the body's own defense mechanism (immune system).	<ol style="list-style-type: none"> 1. Recurrent infections, as an immunomodulator 2. Hepatitis, as a hepatoprotective 3. Arthritis 4. Individuals undergoing chemotherapy, as an adjuvant

8.Himalaya haridra

Common and Scientific name of the herb	Brief description	Action	Indications
Haridra- <i>Curcuma longa</i>	Turmeric has many medicinal properties - it is a well-known herb that helps in combating allergy effectively. Commonly used as a spice in many Indian recipes	It has anti-inflammatory and anti-allergic activity. It helps in faster wound healing and has blood-purifying properties. It also acts as a	<ol style="list-style-type: none"> 1. Allergic skin disorders 2. Allergic respiratory disorders (allergic rhinitis, allergic bronchitis, etc.)

		carminative, stomachic, appetizer and tonic.	
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9.Himalaya Kapikachhu

Common and Scientific name of the herb	Brief description	Action	Indications
Kapikachhu	<i>Mucuna pruriens</i> is a well-known aphrodisiac - the seeds are useful in increasing sperm count. It is a good nervine tonic - helpful in Parkinson's disease	It is prophylactic against oligospermia, and useful in increasing sperm count, regularizes ovulation in women, etc. It prevents male and female sterility and acts as a nervine tonic. The seeds have L-DOPA , which is a neurotransmitter precursor, an effective drug for relief in Parkinson's disease. Seed powder is a well-known aphrodisiac.	<ol style="list-style-type: none"> 1. Oligospermia (Low sperm count) 2. As an aphrodisiac 3. As an adjuvant in Parkinson's disease

10.Himalaya karela

Common and Scientific name of the herb	Brief description	Action	Indications
Karela-Mucuna pruriens	Karela's fruits have long been used in India as a popular home remedy for diabetes mellitus.	A herb that helps regulate blood sugar levels.	It is used as an adjuvant in Diabetes Mellitus

11. Himalaya lasuna

Common and Scientific name of the herb	Brief description	Action	Indications
Lasuna-Allium sativum	Lasuna or Garlic, as it is more commonly known, is a potent herb helpful in preventing hypercholesterolemia	The hypolipidemic activity of Lasuna ensures smooth coronary function - avoids	<ol style="list-style-type: none"> 1. Susceptibility for increased levels of cholesterol in blood (for those with positive family history /

		cholesterol deposition on coronary artery walls.	sedentary work & life style) 2. Dyspepsia 3. Flatulence
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12.Himalaya manjishtha

Common and Scientific name of the herb	Brief description	Action	Indications
Manjishtha- Rubia cordifolia.	Rubia cordifolia or Manjishtha helps in maintaining skin health.	The root of Manjishtha has astringent, anti-bacterial and diuretic properties.	1. Skin disorders 2. Recurrent Urinary Tract infections 3. Rheumatism

13. Himalaya neem

Common and Scientific name of the herb	Brief description	Action	Indications
Neem- Azadirachta indica	Neem or <i>Azadirachta indica</i> has anti-bacterial, anti-fungal & blood purifying properties. It is useful in skin disorders and keeps the skin healthy and glowing	The anti-bacterial, anti-fungal & blood purifying properties of Neem are useful in skin disorders and keeps the skin healthy.	It is used in skin disorders

14.Himalaya punarnava

Common and Scientific name of the herb	Brief description	Action	Indications
Punarnava- Boerhavia diffusa	The extract of Punarnava has diuretic properties. It helps to maintain effective kidney	Punarnava helps maintain efficient kidney function, with its diuretic, anti-spasmodic and anti-inflammatory	1. Urinary tract infections 2. Edema (swelling)

	function.	action. It is a very useful herb in treating edema	
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15.Himalaya shatavari

Common and Scientific name of the herb	Brief description	Action	Indications
Shatavari- Asparagus racemosus	The roots of Shatavari or <i>Asparagus racemosus</i> have galactagogue, antispasmodic, appetizer, cooling, tonic and aphrodisiac properties.	Asparagus is an herb that regulates hormonal secretion. Shatavari acts as a galactagogue and is useful in lactation failure - it promotes lactation.	<ol style="list-style-type: none"> 1. Reduced breast milk secretion in nursing women 2. Menopausal and post-menopausal symptoms

16. Himalaya shallaki

Common and Scientific name of the herb	Brief description	Action	Indications
Shallaki- Boswellia serrata	Shallaki or <i>Boswellia serrata</i> has <i>Boswellic acid</i> as one of the principal constituents in the gum resin, which has shown anti-inflammatory, anti-atherosclerotic and anti-arthritis activities.	A natural and safe herb for optimum joint health. It gently cares for joints.	<ol style="list-style-type: none"> 1. Arthritis 2. Joint pain

17.Himalaya shigru

Common and Scientific name of the herb	Brief description	Action	Indications
Shigru- Moringa oleifera	Shigru or <i>Moringa oleifera</i> leaves are beneficial in	Biological activity studies have confirmed the anti-	<ol style="list-style-type: none"> 1. Joint pain 2. Swelling in the joints 3. Arthritis

	inflammatory conditions of joints. It reduces pain and swelling in the joints.	inflammatory, anti-spasmodic and anti-arthritis properties	
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18. Himalaya shuddha guggulu

Common and Scientific name of the herb	Brief description	Action	Indications
Guggulu-Commiphora wightii	Shuddha Guggulu or <i>Commiphora wightii</i> is useful in cholesterol and weight management. <i>Guggulipid</i> in Guggulu helps in reducing cholesterol.	Shuddha Guggulu helps to regulate the lipid metabolism and thereby helps in weight management. It modulates lipid profile.	<ol style="list-style-type: none"> 1. Hyperlipidemia (Increased cholesterol level in the blood) 2. Arthritis (inflammatory condition of joints) 3. Atherosclerosis (Clogging or Hardening of blood vessels) 4. Weight management

19. Himalaya sunthi

Common and Scientific name of the herb	Brief description	Action	Indications
Sunthi-Zingiber officinale	Sunthi or Ginger is valued in medicine as a carminative and stimulant to the gastro-intestinal tract. It is much in vogue as a household remedy for flatulence and colic.	Sunthi is a carminative and stimulant to the gastro intestinal tract. It helps in case of indigestion and nausea.	<ol style="list-style-type: none"> 1. Indigestion 2. Nausea and motion sickness 3. Arthritis

20. Himalaya tagara

Common and Scientific name of the herb	Brief description	Action	Indications
Tagara-	<i>Valeriana</i>	Indian Valerian	1. Insomnia

Valeriana wallichii	<i>wallichii</i> root stocks are aromatic. They yield aromatic oil, which contains <i>valeric acid</i> . It is a very good relaxant and used in insomnia and sleep disorders.	is a very good relaxant and is prescribed as a remedy for nervous unrest and emotional troubles	2. Sleep disorders
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21. Himalaya triphala

Common and Scientific name of the herbs	Brief description	Action	Indications
Triphala- Terminalia bellirica Terminalia chebula Emblica officinalis	Triphala is an herbal compound comprising the fruits of Indian Gooseberry, Chebulic Myrobalan and Bellirica Myrobalan. It helps in supporting the digestive system.	This herbal compound provides overall support for the digestive function and helps ensure that the digestive tract works at the optimal level. Triphala aids digestion and relieves constipation. It regularizes the digestive system.	<ol style="list-style-type: none"> 1. Constipation 2. Indigestion and other digestive complaints 3. Premature aging

22. Himalaya tulasi

Common and Scientific name of the herbs	Brief description	Action	Indications
Tulasi- Ocimum sanctum Linn	Tulasi or <i>Ocimum sanctum</i> leaves yield a volatile oil containing <i>eugenol</i> , which possesses anti-bacterial properties	Tulasi promotes optimum respiratory support. It has anti-microbial, anti-inflammatory, expectorant properties and is useful in respiratory tract infections. It also helps during respiratory stress.	<ol style="list-style-type: none"> 1. Useful in dry or productive cough, cold and sore throat 2. Mild to moderate respiratory infections

23.Himalaya vasaka

Common and Scientific name of the herbs	Brief description	Action	Indications
Vasaka- Adhatoda zeylanica Medic.	Vasaka is a well-known herb in indigenous systems of medicine for its beneficial effects, particularly in bronchitis. This herb is extensively used for treating cold, cough, chronic bronchitis and asthma	unique herb that helps support the bronchial function with broncho-dilatory, expectorant and mucolytic properties. It normalizes lung function.	<ol style="list-style-type: none"> 1. Productive cough 2. Bronchitis 3. Bronchial asthma

24. Himalaya yashtamadhu

Common and Scientific name of the herbs	Brief description	Action	Indications
Yashtimadhu- Glycyrrhiza glabra	The root in traditional medicine is used as a drug for strengthening muscle and bone, for increasing physical strength and for treating peptic ulcer. Scientific studies have shown that a glycosoid helps to treat gastric, duodenal and esophageal ulceration or inflammation, heartburn and mouth ulcers.	The demulcent and anti-ulcerogenic action of Yashtimadhu is beneficial in gastric and duodenal ulcers. It promotes healing of ulcers.	<ol style="list-style-type: none"> 1. Hyperacidity 2. Peptic ulcer 3. Arthritis

25.Himalaya vrikshamla

Common and Scientific name of	Brief description	Action	Indications
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the herbs			
Vrikshamla- Garcinia indica	Vrikshamla or <i>Garcinia</i> fruit is used for preparing cooling syrups during the summer months. The extracts of fruit help in keeping slim and trim.	The fruit is known to reduce conversion and accumulation of fat in the body & to reduce weight	Helpful in weight management

PART V: SOME OF THE BAIDYANATH AYURVEDIC MEDICINAL PRODUCTS-SRI BAIDYANATH AYURVEDIC BHAWAN LTD²⁴

SERIAL NO	NAME OF AYURVEDIC PRODUCT	ACTIVE INGREDIENTS	THERAPRUTIC USE
1	Jwain ark	Carum Ajmoda(Cellary seed)	Carminative and antipasmodic. Useful in colic, flatulence, dyspepsia, & also used as a vehicle.
2	Mahashankhadraw	Shora, Alum, Saindhava, Yavakshar, Nausadar and kasis.	Gastric tonic, carminative, and cholagogue. Used in enlargement of live, intorpid conditions ofbilliousness, oxaluria and catarrhalm jaunice.
3	Saunph Ark	Foeniculum vulgaris(Fennel)	Carminative and gastric stimulant. Used in flatulence.
4	Agnitundi Bati	Kajjali, Aconite, Triphala, ajwain etc.	Bitter, Stomachic, Tonic, alterative and stimulsant
5	Agniwardhak bati	Bidlwan, NaAvsadar, Akwanphool, Marich And Lemon Juice.	Alterative tonic, stomachic and aperients use in dyspepsia, indigestion etc
6	Brahmi Bati (with gold)	Abhrak Bhasma, Akik Bhasma, Chandroday prawal bhasma, Swarn Bhasma, Moti pishti	Alterative, sedative, indicated as nervine tonic, loss of smemory, insomnia.

²⁴ Available at <http://www.baidyanath.com/>. Visited on 15th February, 2011, at 8.46 AM.

7	Akik Bhasma	Akik & Ghrit Kumari rasa	Haemostatic & antacid, used in haemorrhage, epilepsy, weak heart, eye trouble, asthma, bronchitis & restores strength & vigour
8	Godanti (Harital) Bhasma	Godanti & Ghritkumari rasa	Emmenagogue, anti-spasmodic, tonic, antacid. Used in influenza, cough, headache, malarial fever
9	Agnimukh Churna	Sonth, Jirak, Marich, Menthol, Bid Lavan, Saindhava, Lemon juice etc	Expectorant, diuretic and aperients. indicated in dyspepsia and loss of appetite
10	Arjuna Ghrita	Terminalia arjuna and Ghrita	Cardiac tonic and astringent. Used in breathlessness and congestive cardiac failure
11	Ashok Ghrit	Sarca indiaca, caraway, Rice water, Rasot, Bhringraj, Satava.etc.	Anti inflammatory and uterine sedative also used as astringent and in gynecological diseases.
12	Ashwagandhadi Ghrit	Ashwagandha and Ghrita	Indicated in nervous debility, insomnia, general weakness and loss of libido.
13	Brahmi Ghrit	Brahmi, Banch, Kut, Shankhpushpi and ghrit	Alterative, diuretic and brain sedative, also useful in mania, epilepsy insanity and mental disease.
14	Gokshuradi Guggulu	Gokshuru, Trikatu, triphala, Nagarmotha and Guggulu	Diuretic dimulcent and alterative. Indicated in spermatorrhoea, gonorrhoea, painful micturition, leucorrhoea, albuminuria, and rheumatism. Also used in calculi and urinary infections
15	Guggulu	Commiphora Mukul	Administered in malignant ulcers, leprosy, boils, fistula, scitica, otorrhoea etc.
16	Kanchnar Guggulu	kanchnar, triphala, trikatu, varuna, Cinnamon, Cardamum Tejpatra, Guggulu etc	Alterative, anti-inflammatory and tonic. It is administered in glands, malignant ulcers, syphilis, fistula, scrofula, sinus etc

17	Chandanadi Lauh	Redsandal, patha, Khas, pipal, Haritakikamalphool, amalaki etc	Diuretic, Urinary Antiseptic, Used in Gonorrhoea
18	Chandramrit Lauh	Trikatu, triphala, Dhania, Jirak et	Indicated in chronic bronchitis, various sorts of cough etc.
19	Dhatri Lauh	Amlaki, Laugh Bhasma, Liquorice	Antacid, stomachic, acidity, colic etc.
20	Chandrodaya varti	Haritaki, Buch, Kustha, Pipal, Marich, Vibhitaki, Mansila	Antiseptic and anti-phlogestic. Indicated in eyeaffection such as trachoma, glaucoma etc
21	Ark pudina	Menth. Vir, Menth. Pip, Menthol	Carminative and digestive used in indigestion, tympanites, colic, vomiting, loss of appetite & dyspepsia
22	Agastisootraj Raj	Carminative and digestive used in indigestion, tympanites, colic, vomiting, loss of appetite dyspepsia	Antidysenteric, aphrodisiac & tonic. Indicated in acute diarrhoea, dysentery & chronic fever.
23	Agnikumar Ras	Mercury, sulphur, Borax, aconite, kapardak Bhasma, shankh Bhasma, Marich etc.	Antacid, sedative and stomachic. used in cholera, colics, dyspepsia, diarrhoea & dysentery
24	Agnisandipan Ras	Marich, Panch lavan, Yawakshar, jirak, ajwain etc.	Aperients and sedative indicated in indigestion, dyspepsia, stomach pain gastric trouble etc.
25	Ajirnari Ras	Mercury, sulphur, Haritaki, Trikatu, saindhav & Bhang	Astringent and stomachic. Indicated in Indigestion & dyspepsia.

CONCLUSION

The glaring fact is that the companies and trusts are commercialising and profiting the traditional knowledge without actually paying for the use of intellectual property. This is another form of misappropriation of traditional knowledge and to be considered as bioliracy.

The above mentioned ayurvedic medicines produced by various companies and trust are not exhaustive, but illustrative. The trust and pharmaceutical companies are producing and selling the ayurvedic medicines under Drugs and Cosmetics Act. Basically this Act is to regulate the import, manufacture, distribution and sale of drugs. Whille doing that, it separately deals with Ayurvedic, Siddha and Unani drugs i.e. herbal medicines made of medicinal plants²⁵. The crux of the issue is that the protection of traditional knowledge associated with medicinal plants. There is a prohibition of manufacture for the sale of Ayurvedic, siddha and Unani drugs.²⁶ It states that manufacture for the sale or for distribution, any ayurvedic, Siddha or unani drug, except under and in according to the conditions of a licence issued for such purpose, prescribed by the authority. Moreover, one of the powers of Central Government²⁷ to make rules prescribes the forms of licences for the manufacture for sale of (Ayurvedic, Siddha or Unani drugs and for sale of processed Ayurvedic, siddha or Unani drugs), the form of applications for such licences, the conditions subject to which such licences may be issued, the authority empowered to issue the same and the fees payable therefor and provide for the cancellation or suspension of such licences in any case where any provision or rules is contravened or any of the conditions subject to which they are issued is not complied with. There is a scope in this Act to ensure safeguards along with the royalty or benefit sharing with the users but it is not being explored out by the authority. There is also a further scope to the authority to allow or not to allow this type of utilisation, but it was not done. This is because government does not have any policy in this regard. Hence it is suggested that the aforesaid practice has to be declared as biopiracy and illegal. It is also recommended that this type of business only can be allowed if it is ensured that the ayurvedic medicine producers pay for the commercial use of traditional knowledge.

²⁵ See, Chapter IV A, The Drugs and Cosmetics Act 1940.

²⁶ Ibid, Section 33EEC (c).

²⁷ Ibid, Section 33N (e).