

CHAPTER VIII

MEDICINAL PLANTS OF COOCH BEHAR

INTRODUCTION

Cooch Behar was a princely state up to the year 1950. Then it merged with India according to a treaty in between His Highness Maharaja of Cooch Behar and the Government of India. Subsequently it became a district of West Bengal. This district is very rich for its cultural heritage and huge natural resources. It is also very famous for its pleasant weather and scenic beauty. Apart from this, a lot of medicinal plants are grown in this area which have immense medicinal value and are used as traditional treatment for various ailments though some of these herbs and plants are known, medicinal values of a large number of medicinal plants are yet to be discovered. No comprehensive and systematic initiative has yet been taken by the government or by any Research Institute.

The district of Coochbehar has a very strong legacy of ayurvedic traditional treatment. The system of traditional treatment is dominated by the ayurvedic doctors called the vaidyas. A large number of these herbs are already within the public domain knowledge but some of them are preserved as indigenous secret knowledge of the community and the people are very reluctant to share them. As a result of which much of the indigenous knowledge relating to the medicinal plants and herbs of this district is lost. This is also the reason that there is no further scope to do research to confirm the medicinal values of these extinct plants along with their documentation. It may be mentioned here that the medicinal herbs and plants of Coochbehar are not exclusive to this district because it is situated in a geographical region where the weather, soil condition etc., are similar to some other northern districts of West Bengal, southern districts of Assam and neighbouring country Bangladesh.

The **limitation** of the present research work is that it does not intend to either discover or catalogue the medicinal plants or herbs available in the district of Coochbehar. The researcher also does not intend to do an analysis of bio-chemical materials or genetical structures of the medicinal plants.

The **focus** of the research is to see whether any of the medicinal plants of Coochbehar can be protected under the intellectual property regime and whether any of the plants already enjoy protection under Intellectual Property regime. The researcher also intends to see the level of protection of the traditional knowledge associated with these medicinal plants.

Keeping the above factors in mind, an attempt has been made to find out some of the instances of misappropriation cases. Furthermore the **objective** of the research is to find how many of the known medicinal herbs and plants have found place in the

Traditional Knowledge Digital Library¹ of India prepared by CSIR and to focus upon the intellectual property rights protection issues regarding these plants.

With these **objectives, limits and focus** in view, the researcher undertook a survey through interview with the method of close ended structured questionnaires of some knowledgeable persons in this field. Apart from this the researcher also has based his research on some secondary data.

NAMES AND CURATIVE EFFECTS OF THE MEDICINAL PLANTS OF COOCH BEHAR

(1)(A). INFORMATION OBTAINED FROM DR. SOUMEN MAITRA, Associate Professor and Head, Department of Floriculture, Medicinal and Aromatic Plants, Uttar Banga Krishi Vishwa Vidhyalaya, Cooch Behar, West Bengal.

The Department of Floriculture, Medicinal and Aromatic Plants, in Uttar Banga Krishi Vishwa Vidhyalaya, Cooch Behar, West Bengal, is well known for its proactive role in identification of medicinal plants and herbs in the region. Dr. Soumen Maitra, the Head of the Department of Floriculture, Medicinal and Aromatic Plants narrated and described several such plants with unique curative properties that were commonly used by the local inhabitants of the district of Coochbehar for prevention and cure of some specific diseases.

These medicinal plants are in popular use and people use the natural extracts of their various parts such as stem, leaf, seed etc for those purposes, in different ways. The information obtained from Dr. Maitra is given in a tabular form below:

¹ The object of TKDL is digital documentation of India's public domain of traditional scientific-medicinal knowledge. TKDL is a collaborative project between Council of Scientific and Industrial Research (CSIR), Ministry of Science and Technology, and Department of Ayurveda, Yoga and Naturopathy, Unani, Siddha and Homoeopathy (AYUSH), Ministry of Health and Family Welfare, Government of India.

Table No. 1: Names of Plants obtained from Department of Floriculture, Medicinal and Aromatic Plants, Uttar Banga Krishi Vishwa Vidhyalaya, Cooch Behar, West Bengal.

SL. NO.	COMMON NAME OF THE HERB/PLANT	SCIENTIFIC NOMENCLATURE	CURATIVE EFFECT OR MEDICINAL PURPOSE
1.	Medical yam or Vesaza khamalu	-Dioscorea composita -Dioscorea floribunda	Corticosteroid, Sex hormone and Oral contraceptive
2	Kalomegh	Andrographis paniculata	Cough and cold
3	A. Pipul B. Kabab chini C. Choi	Piper longum Piper cubeba Piper retrofractum	Cough and Cold, Obesity Sore throat and Irritable throat Cough and cold related fever, Rheumatism
4	A. Shoti B. Aam-aada C. Kalihaldi	Curcuma zedoaria Curcuma amada Curcuma caesia	Starch-rich food Loss of appetite Skin wrinkling
5	A. Arjun B. Bohera C. Horitoki	Terminalia arjuna Terminalia bellerica Terminalia chebula	Cardiac problem. Indigestion Indigestion
6	Aamloki (commonly known as Amla)	Phyllanthus emblica	Enhancement of digestive capacity and Vitamin C enriched
7	Vashak	Adhatoda vasica	Cough and Cold
8	Ram-vashak	Phlogacanthus thyriflorus	Cough and Cold
9	Curry-patta	Murraya koenigii	Cool the stomach, Blood sugar

10	Vishal-anguriya	Gloriosa superba	Artharitis and Cromozome doubling
11	Ulat-kambal	Abroma augusta	Various gyenaeco-obstetric deseases and production of sperm related problems
12	Lata-kasturi	Abelmoschus moschatus	Digestive and any type of stomach complain
13	Danda-kalosh	Leucas aspera	Headache
14	Khasi-begun	Solanum khasianum	Steroid
15	A. Nayan-tara (pink) B. Nayan-tara (white)	Catharanthus roseus var roseus Catharanthus roseus var alba	Blood sugar

It may be noted that some of these plants and herbs mentioned by Dr. Maitra already find a place in the Traditional Knowledge Digital Library, a list of which has been produced verbatim at the end of the present chapter.

(1)(B). INFORMATIONS GIVEN BY SRI BHABEN BARMAN, Teachetr, Petbhata High School, Post-Makhpala, Dist-Cooch Behar, West Bengal.

Sree Barman is considered to be a knowlwdgeable person regarding medicinal plants and herbs. However he was able to give information about only two medicinal plants/herbs that are mentioned below:

Table No. 2: Names of Plants obtained from Petbhata High School, Post-Mackpala, Dist-Cooch Behar, West Bengal.

SL. NO.	COMMON NAME OF THE HERB/PLANT	SIENTIFIC NOMENCLATURE	CURATIVE EFFECT AND MEDICINAL PURPOSE
1	Kanaidinga	Oroxylum indicum	Chronic diarrhoea, Dysentery, Liver complaints, Jaundice, Pox
2	Haar-jora	Cissus quadrangularis	To treat broken bones

The word “Haar-jora” literally means “bone-join” or “bone-setter”. It may be mentioned that the medicinal plant named “Haar-jora” mentioned by Sri Burman has a legendary effect in the North Bengal region of West Bengal and attracts hoards of

patients from length and breadth of India. This researcher has witnessed how patients with difficult cases of bone fracture have been cured. The significant part is that the community of vaidyas who specialise in this do not allow any one to see how the herb/plant is processed nor do they divulge any information. The expertise is passed on from generation to generation² as a secret which makes it a truly indigenous community knowledge that should be protected.

(1)(C). INFORMATIONS GIVEN BY DR. TUHIN SENSCHARMA, Government Ayurvediya Databya Chikitsalaya, Debattar Trust Board, Post & Dist-Cooch Behar, West Bengal.

Dr. Tuhin Sesharma is adorned by the honoured title “Kabiraj” indicating his expertise in the field of ayurvedic medicines. Though of frail health Dr. Sensharma is an extremely busy personality and the researcher found it very difficult to obtain an appointment to meet and interview him. Even on meeting him he appeared reluctant to part with much information and the researcher could obtain the following information only.

Table No. 3: Names of Plants obtained from Government Ayurvediya Databya Chikitsalaya, Debattar Trust Board, Post-Cooch Behar, West Bengal.

SL. NO.	COMMON NAME OF THE HERB/PLANT	SIENTIFIC NOMENCLATURE	CURATIVE EFFECT AND MEDICINAL PURPOSE
1.	Amla-betas	Rheum australe	For digestion
2.	Kutaj	Holarrhena antidysenterica	Blood dysentery and Dysentery
3.	Sharpa-gandha	Rauvolfia serpentina	High blood pressure, Sedative, Sleeplessness ³
4.	Shata-mooli	Asparagus racemosus	Digestive capacity, Gas preventive

² The place is called Akrahaat village in Nishiganj G. P. near Mathabhanga in Coochbehar district. The vaidyas who practice this art of curing with the help of the medicinal herb/plane called “Harjora” are commonly known as Mushuri Vaidyas

³ This is a well known medicine in homoeopathy as well used to treat the above mentioned ailments

(1)(D). INFORMATIONS GIVEN BY DR. R.P NANDI, PROFESSOR OF BOTANY (RETIRED) AND FORMER HEAD, SHYAMSUNDER COLLEGE, RAINA, UNDER UNIVERSITY OF BURDWAN, WEST BENGAL.

Dr. R.P.Nandi has been doing in-debth and extensive study on medicinal plants of North-Bengal region, basing Siliguri. His study has earned a good reputation for him and made him very famous as a teacher in this field. Worthy to be mentioned here is that he is a columnist in Uttar Banga Sambad, a regional well-circulated Bengali daily, published from Siliguri. He writes a column named "Kichu Porichito Banaushodhi meaning Some Familiar Medicinal Plants" regularly in this newspaper. Dr. R.P.Nandi is considered as the authority in the field of medicinal plants in this region. Names of the plants and their medicinal uses obtained from him are given in a tabular form below:

Table No. 4: Names of the plants and their medicinal uses obtained from Dr. R.P.Nandi.

SL. NO.	COMMON NAME OF HERB/PLANT	SIENTIFIC NOMENCLATURE	CURATIVE EFFECT AND MEDICINAL PURPOSE
1	Nayan-tara	Catharanthus Roseus (Pink) Catharanthus Alba (White)	Blood Cancer ⁴
2	Kalo-megh	Andrographis paniculata	Proper Liver Functioning ⁵
3	Sharpa-gandha	Rauwolfia serpentina	High Blood Pressure
4	Vasak	Adhatoda vasica	Cough, Cold and Asthma
5.	Kuchila	Strychnos nuxvomica	Anaesthetical or produces insensibility
6.	Gulancho	Tinospora cordifolia	Jaundice
7.	Thankuni	Centella asiatica	Decentry, Digestion, Memory

⁴ It is to be noted that Dr. Maitra has indicated that the quality of blood sugar control for this plant. The plant seems to be having multiple medicinal values.

⁵ According to Dr. Maitra, this is also good for cough and cold.

			Enhancer
8.	Kule-khara	Hygrophilla spinosa	Anemia
9.	Brahmi	Bacopa monnieri	Loss of Memory

(1)(E). INFORMATION OBTAINED FROM THE BOOK “RAAJBANSHI LOKE-CHIKITSHA”, authored by TANAY MANDOL and published by Government of West Bengal.⁶

This book is the outcome of his good research work in finding out and enlisting, apart from other conventional types of methods of treatment, names of the medicinal plants and their conventional medicinal uses by the Rajbangshi community of Cooch Behar and other adjacent districts of North Bengal. It has been published under the auspices of CENTRE FOR LOKE SANSKRITI O AADIBASHI SANSKRITI, DEPARTMENT OF INFORMATION AND CULTURE, GOVERNMENT OF WEST BENGAL. The names of these medicinal plants/herbs are given in a tabular form below:

Table No. 5: Informations regarding the names of the medicinal plants and their common medicinal uses obtained from “Raajbanshi Lokechikitsha”.

SL. No.	COMMON NAME OF THE HERB/PLANT	SIENTIFIC NOMENCLATURE	CURATIVE EFFECT OR MEDICINAL PURPOSE
1.	Chhatim (Leaf)	Alstonia scholaris	Kala-azar
2.	Bakul (Bark)	Mimusops elengi	Tooth-ache
3.	Amrul (Extract)	Oxalis corniculata	decentry
4.	Dapi dhupi (Leaf)	Crataeva religiosa	arthritis
5.	Niltat (Whole plant)	Cissampelos pareira	Smallpox
6.	Pathar-kuchi (Leaf)	Bryophyllum calycinum	Diahrea, Urinary Problem

⁶ Raajbanshi Lokechikitsha, Tanay Mandol, Published by Centre for Lokeshanskriti and Aadibashi Shanskriti, Department of Information and Culture Government of West Bengal, Kolkata, 2011.

7.	Anaras (Leaf)	Ananus comosus	Warm
8.	Mot (Stem)	Biston betulari	Gas, Stomachache, Jaundice, Constipation
9.	Nishinda (Leaf)	Vitex negundo	High blood pressure
10.	Shefali (Leaf)	Nyctanthes arbour tristis	Kala-azar
11.	Alok-lata (Leaf)	Cuscuta reflexa	Jaundice
12.	Tamak (Leaf)	Nicotiana tabacum	Asthma
13.	Paat (Leaf)	Corchorus capsularis	Fever
14.	Dalim (Leaf)	Punica granatum	Decentry

(1)(F). INFORMATIONS FROM AN ARTICLE “Traditional Medicines Used by the Ethnic Communities of Koch Behar District of West Bengal”⁷.

This article is written jointly by SUBHOJIT BANDYOPADHAYA AND SOBHAN K. MUKHERJEE OF DEPARTMENT OF BOTANY, UNIVERSITY OF KALYANI, WEST BENGAL⁸. This article records some common herbal treatments for some female diseases of Cooch Behar which are given below:

Table No. 6: Informations about the names and their therapeutic uses taken from the article: Traditional Medicine Used by the Ethnic Communities of Koch Behar.

SL. NO.	COMMON NAME OF THE HERB/PLANT	SIENTIFIC NOMENCLATURE	CURATIVE EFFECT OR MEDICINAL PURPOSE
1.	Shimul (Root)	Bombax ceiba	Menometorrhagia
2.	Sheora (Root)	Streblus asper	Puerperal fever

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[www.academia.edu/867458/TRADITIONAL MEDICINE USED BY THE ETHNIC COMMUNITIES OF KOCH BIHAR DISTRICT WEST BENGAL INDIA](http://www.academia.edu/867458/TRADITIONAL_MEDICINE_USED_BY_THE_ETHNIC_COMMUNITIES_OF_KOCH_BIHAR_DISTRICT_WEST_BENGAL_INDIA).visited on 2nd February, 2013 at 2.36 PM.

⁸ Ibid.

3.	Bakphul (Flower)	Sesbania grandiflora	Dysmenorrhoea
4.	Bon-rosun (Bulb)	Scilla indica	Dysmenorrhoea
5.	Kait-bel (Leaf)	Limonia acidissima	Leucorrhoea
6.	Rakto-shapla (Flower)	Nymphaea rubra	Meno-metorrhoea

As has already been pointed out in the foregoing paragraphs few of these plants are of common knowledge and are often used houselod remedies and good health practices. As the list indicates at the Appendix annexed at the end of this chapter some of these plants and herbs already find a place on the Traditional Knowledge Digital Library.

SOME NON-DOCUMENTED MEDICINAL PLANTS OF COOCH BEHAR IN TRADITIONAL KNOWLEDGE DIGITAL LIBRAY (TKDL).

After collecting all the above-mentioned plants along with their common medicinal uses in Cooch Behar, TKDL documents were searched through 'advance search' procedure⁹ which is inbuilt in TKDL. It is found out that out of all the above-mentioned medicinal plants in Table Numbers 1-6, twelve (11) plants do not find place in TKDL documentation. The table below shows the names and curative effects of those non-documented plants in TKDL.

Table No. 7: The following medicinal plants of Cooch Behar do not find place in TKDL.

SL. NO.	COMMON NAME OF THE HERB/PLANT	SIENTIFIC NOMENCLATURE	CURATIVE EFFECT OR MEDICINAL PURPOSE
1.	Ram-vashak	Phlogacanthus thyrsoiflorus	Cough and Cold.
2.	Curry-patta	Murraya koenigii	Cool the stomach, Blood sugar
3.	Ulat-kambal	Abroma augusta	Various gyenaeco-obstetric deseases and production of sperm related problems.
4.	Lata-kasturi	Abelmoschus moschatus	Digestive and any type of

			stomac complain.
5.	A. Nayan-tara (pink)	Catharanthus roseus var roseus	Blood sugar, Blood Cancer
	B. Nayan-tara (white)	Catharanthus roseus var alba	Blood sugar, Blood sugar, Blood cancer
6.	Kule-khara	Hygrophilla spinosa	Anemia
7.	Dapi dhupi	Crataeva religiosa	arthritis
8.	Pathar-kuchi	Bryophyllum calycinum	Diahrea, Urinary Problem
9.	Anaras	Ananus comosus	Warm
10.	Mot	Biston betulari	Gas, Stomachache, Jaundice, Constipation
11.	Bon-rosun	Scilla indica	Dysmenorrhoea

SOME MEDICINAL PLANTS NOT DOCUMENTED IN TKDL ACCORDING TO THE COMMON MEDICINAL USE IN COOCHBEHAR.

Though some of the plants of Cooch Behar (see Table Number 1-6) specifically their medicinal values find place as existing knowledge (see Appendix) in TKDL but it is found¹⁰ (through 'advance search' inbuilt in TKDL, that the documentation is for some other purposes. Their usefulness in the treatment of diseases is not for those of common uses as was found in Cooch Behar. Here is the chart showing those medicinal plants along with their medicinal values.

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Table No. 8: The following medicinal plants of Cooch Behar though documented in TKDL for their various medicinal values, but the above documentation is silent on the medicinal values for which these are commonly used in Cooch Behar.

SL. NO.	COMMON NAME OF THE HERB/PLANT	SCIENTIFIC NOMENCLATURE	CURATIVE EFFECT OR MEDICINAL PURPOSE
1.	Kabab chini	<i>Piper cubeba</i>	Sore throat. Irritable throat.
2.	Shoti	<i>Curcuma zedoaria</i>	Starch-rich food
3.	Aam-aada	<i>Curcuma amada</i>	Loss of appetite.
4.	Arjun	<i>Terminalia arjuna</i>	Cardiac problem
5.	Vishal-anguriya	<i>Gloriosa superba</i>	Artharitis
6.	Kanaidinga	<i>Oroxylum indicum</i>	Chronic diarrhoea, Dysentery, Pox.
7.	Haar-jora	<i>Cissus quadrangularis</i>	To treat broken bones
8.	Shata-mooli	<i>Asparagus racemosus</i>	Digestive capacity, Gas preventive
9.	Kuchila	<i>Strychnos nuxvomica</i>	Anaesthetical use
10.	Brahmi	<i>Bacopa monnieri</i>	Loss of Memory
11.	Amrul	<i>Oxalis corniculata</i>	decentry
12.	Niltat	<i>Cissampelos pareira</i>	Smallpox
13.	Nishinda	<i>Vitex negundo</i>	High blood pressure
14.	Paat	<i>Corchorus capsularis</i>	fever
15.	Shimul	<i>Bombax ceiba</i>	Menometorrhagia
16.	Sheora	<i>Streblus asper</i>	Puerperal fever
17.	Bakphul	<i>Sesbania grandiflora</i>	Dysmenorrhoea
18.	Koitbel	<i>Limonia acidissima</i>	Leucorrhoea

19.	Medical yam or Vesaza khamalu	Dioscorea composita Dioscorea floribunda	Corticosteroids, Sex hormone, Oral contraceptive
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TKDL DOCUMENTATION OF THE MEDICINAL VALUES OF THE PLANTS OF COOCH BEHAR

TABLE No. 9: The following are the examples of the TKDL documentation of the medicinal plants of Cooch Behar, the medicinal values as are in common use or in the public domain. TKDL documentation shows that the medicinal values of these plants are in the written description form found in various Indian literatures. The verbatim transcriptions of these plants (as is mentioned in Table Number 9) are given in the Appendix. The prior art or existing knowledge regarding these medicinal plants are found through 'advance search' procedure inbuilt in TKDL.

SL. NO.	COMMON NAME OF THE HERB/PLANT	SCIENTIFIC NOMENCLATURE	CURATIVE EFFECT OR MEDICINAL PURPOSE
1.	Kalo-megh	Andrographis paniculata	Cough and Cold, Proper Liver Functioning
2.	Pipul	Piper longum	Cough and Cold, obesity
3.	Choi	Piper retrofractum	Cough and Cold related fever, Rheumatism
4.	Horitoki	Terminalia chebula	Indigestion
5.	Aamloki	Phyllanthus emblica	Enhancement of digestive capacity and Vitamin C enriched
6.	Vashak	Adhatoda vasica	Cough and Cold
7.	Dando-kalosh	Leucas aspera	Headache
8.	Kanaidinga	Oroxylum indicum	Chronic diarrhoea, Dysentery, Liver complaints, Jaundice, Pox

9.	Kutaj	Holarrhena antidysenterica	Blood dysentery and Dysentery
10.	Gulancho	Tinospora cordifolia	Jaundice
11.	Thankuni	Alstonia scholaris	Decentry, Digestion, Memory Enhancer
12.	Bakul	Mimusops elengi	Teethache
13.	Shefali	Nyctanthes arbour tristis	Kalajwar
14.	Alok-lata	Cuscuta reflexa	Jaundice
15.	Tamak	Nicotiana tabacum	Asthma
16.	Dalim	Punica granatum	Decentry
17.	Sharpa-gandha	Rauvolfia serpentina	High Blood Pressure, Sedative, Sleeplessness
18.	Medical yam or Vesaza khamalu	Dioscorea composita	Corticosteroid, Sex hormone, Oral contraceptive
19.	Khasi-begun	Solanum khasianum	Steroid
20.	Amla-betas	Rheum australe	For Digestion
21.	Rakto-shapla	Nymphaea rubra	Meno-metorrhoea
22.	Bohera	Terminalia bellirica	Digestive capacity

SOME MEDICINAL PLANTS OF COOCH BEHAR WHOSE MEDICINAL PROPERTIES HAVE BEEN PATENTED IN USA

With response to another objective of this research work i.e. to find out some of the instances of misappropriation cases, an attempt was made to find out some of the patents granted by United States on the common use regarding the medicinal values of some of these plants. Here is the table (below) to show the list of some of these

types of patents. The following patent documents were found by searching websites of United States patent & Trademark Office and FREEPATENTSONLINE.

TABLE No. 10: The following are some instances of patents granted by USPTO over which there is traditional knowledge associated with medicinal plants of Cooch Behar.

SL. NO.	PATENT NUMBER & ABSTRACT	DATE OF PATENT , INVENTOR	TITLE	MEDICINAL PLANT AND ITS CURATIVE EFFECT
1.	US 8,372,452 An oral herbal composition comprising a therapeutically effective amount of an extract derived from the berries of a plant, Piper cubeba , wherein the composition is provided for use in the treatment of oral candidiasis (oral thrush) ¹¹ .	12 TH FEB, 2013 (1). V.S. Chauhan and (2). K.S.Slakar	ORAL HERBAL COMPOSITION FOR THE TREATMENT OF ORAL CANDIDIASIS	PIPER CUBEBA- (Kabab chini) Sore Throat or Irritable throat
2.	US 7,438, 932 The invention provides a method for treating stomach discomfort, stomachache, intestinal discomfort, gastric ulcer, duodenal ulcer or diarrhea by administration of extracts of Asparagus racemosus , <i>Uleria solicifolia</i> , <i>Foeniculum</i>	21 ST OCT, 2008 (1). P Palpu (2). R.Venkates wara	METHOD FOR TREATING STOMACH ULCERS WITH HERBAL EXTRACT COMPOSITION	ASPARAGUS RACEMOSUS -(Shatamuli)- Digestive capacity and Gas preventive

¹¹ <http://www.freepatentsonline.com/US8372452.pdf> visited on 12th February, 2013 at 11.30 PM.

	vulgare and Ficus glomerata ¹² .			
3.	<p>US 6,162,438</p> <p>Edible herbal compositions for use as agents for the control of hypertension, hypercholesterolemia and hyperlipidemia in mammals. The edible composition is a mixture of at least three, preferably at least six herbs selected from the group consisting of Terminalia arjuna, Cynara scolymus, Zingibar officinale, Allium sativum, Crataegus oxycantha, Curcuma longa, Boerhaavia diffusa and Trigonella foenumgraecum¹³.</p>	<p>19TH DEC, 2000</p> <p>(1). Onkar Tomer</p> <p>(2). Peter Glomski</p>	<p>HERBAL COMPOSITION AND THEIR USE AS AGENTS FOR CONTROL OF HYPERTENSION, HYPERCHOLESTEROLEMIA AND HYPERLIPIDEMIA</p>	<p>TERMINALIA ARJUNA- (Arjun)-Cardiac problem</p>
4.	<p>US 5,529,778</p> <p>An ayurvedic composition for prophylaxis and treatment of AIDS, flu, TB and other immuno-deficiency conditions and for liver diseases such as hepatitis and sclerosis etc, The first multi-component drug LIVZON consists of Terminalia bellerica, Phyllanthus niruri, Tinospora cordifolia,</p>	<p>25TH JUNE, 1996</p> <p>(1). Surendra Rohatgi</p>	<p>AYURVEDIC COMPOSITION FOR THE PROPHYLAXIS AND TREATMENT OF AIDS, FLU, TB, AND OTHER IMMUNO-DEFICIENCIES AND THE</p>	<p>Terminalia bellerica (Bohera)- Digestive capacity</p>

¹² <http://www.freepatentsonline.com/US7438932.pdf>. visited on 13th February, 2013 at 1 AM.

¹³ <http://www.freepatentsonline.com/US6162438.pdf>. Visited on 22nd February, 2013 at 6.45 PM.

	Phyllanthus emblica, Terminalia chebula ¹⁴ .		PROCESS FOR PREPARING THE SAME	
5.	<p>US 6,759,061</p> <p>A food supplement formulation effective to improve the function of the liver comprises Andrographis paniculata, selenium, milk thistle seed, phosphatidyl choline, dandelion root, l-methionine, l-taurine, N-acetyl-cysteine, alpha lipoic acid, artichoke leaf, green tea leaf, turmeric root, belleric myrobalan fruit, boerhavia diffusa, eclipta alba, wedelolactones tinospora cordifolia, and picrorhiza kurroa¹⁵.</p>	<p>6Th JULY, 2004</p> <p>(1). Brenda F. Watson</p> <p>(2). Leonard. O. Smith</p>	<p>LIVER FUNCTION IMPROVEMENT FORMULATION</p>	<p>Andrographis paniculata (Kalomegh)- Proper Liver Functioning</p>
6.	<p>US 8,431,167</p> <p>Plant extracts compositions comprising extracts of Phyllanthus emblica, Curcuma longa and Gymnospora Montana and at least a carrier. The</p>	<p>30Th April, 2013</p> <p>Mukesh H. Shukla</p>	<p>PLANT EXTRACTS COMPOSITION FOR THE TREATMENT OF LIVER DYSFUNCTION</p>	<p>Phyllanthus emblica (Amlaki)- Enhancement of digestive capacity</p>

¹⁴ <http://www.freepatentsonline.com/US5529778.pdf>. Visited on 22nd February 2013 at 7.30 PM.

¹⁵ <http://www.freepatentsonline.com/US6759061B2.pdf>. Visited on 2nd March, 2013 at 9.15 AM

	compositions can be used to treat liver dysfunction ¹⁶ .		-JAUNDICE	
7.	<p>US 6,136,316</p> <p>The invention provides a novel polyherbal composition useful for treating acute Hepatitis E virus infection including acute liver failure due to HEV infection, healthy Hepatitis B virus carriers who develop superadded hepatitis E virus infection, acute hepatitis B virus infection and animal hepadna virus, therapeutic effects on hepatitis B virus infection and also used as a hepatoprotective agent, said composition comprising essentially extracts of plants Tinospora cordifolia Miers, Rheum emodi Wall, Phyllanthus amarus Linn, Eclipta alba Hassk, Andrographis paniculata Nees and Picrorhiza kurroa ex Benth and optionally Fumaria officinalis, Terminalia chebula Retz,</p>	<p>24TH OCT, 2000</p> <p>(i).Raj Maharaj</p> <p>(ii). Chandra Kant</p>	<p>HEPATOPROTECTIVE COMPOSITIONS AND COMPOSITION FOR TREATMENT OF CONDITIONS RELATED TO HEPATITIS B AND E INFECTION</p>	<p>Tinospora cordifolia (Gulancho)- Jaundice</p>

¹⁶ <http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&p=1&u=%2Fnetacgi%2FPTO%2Fsearch-bool.html&r=1&f=G&l=50&col=AND&d=PTXT&s1=%22Phyllanthus+emblica%22.ABTX.&s2=%22Phyllanthus+emblica%22.ABTX.&OS=ABST/%22Phyllanthus+emblica%22+AND+ABST/%22Phyllanthus+emblica%22&RS=ABST/%22Phyllanthus+emblica%22+AND+ABST/%22Phyllanthus+emblica%22> Visited on 28th April, 2013 at 5.16 PM.

	Cichorium intybus Linn, Tephrosea purpurea Linn and Boerhaavia diffusa Linn ¹⁷ .			
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ANALYSIS AND CONCLUDING COMMENT

The verbatim transcription of Traditional Knowledge Digital Library (TKDL) documents give information regarding the written descriptions (ancient and modern) of existing traditional knowledge along with their medicinal values as are in common use or in public domain in Cooch Behar. It is found that many medicinal plants of Cooch Behar (see Table No. 1-6) are not documented in TKDL (see Table No. 7) and also all the medicinal values of these plants are also not recorded. This means that TKDL documentation process is not complete. In a bio-rich country like India, little is done, vast remains to be done. The goal is very far away considering the slothness of the process. This also means that the undocumented medicinal herbs and plants are vulnerable to biopiracy till such time they find a place on the traditional Knowledge digital library. As a result, the traditional knowledge can be claimed (in fact it is being claimed) by others as their invented knowledge-novel, non-obvious and patents could be obtained and there remains no scope to challenge these patents. As a result, India would be losing its due share in the profit accruing from the commercialisation of its traditional intellectual property by others. Hence, it is suggested that as early as possible documentation of all traditional knowledge associated with medicinal plants, must be completed. TKDL should compile all the traditional knowledge documents from every corner of this country. A little delay will cost the country dearly and the time is running out.

It is also observed that most of the medicinal plants of Cooch Behar (see Table No 1-6) associated with traditional knowledge, which people of this region have been applying for different treatment purposes, do not have any written description in any book or in any other printed material. The disadvantage of this situation is that the

¹⁷ [http://patft.uspto.gov/netacgi/nph-](http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&p=1&u=%2Fnetacgi%2FPTO%2Fsearch-bool.html&r=14&f=G&l=50&col=AND&d=PTXT&s1=%22Tinospora+cordifolia%22.ABTX.&s2=%22Tinospora+cordifolia%22.ABTX.&OS=ABST/%22Tinospora+cordifolia%22+AND+ABST/%22Tinospora+cordifolia%22&RS=ABST/%22Tinospora+cordifolia%22+AND+ABST/%22Tinospora+cordifolia%22)

[Parser?Sect1=PTO2&Sect2=HITOFF&p=1&u=%2Fnetacgi%2FPTO%2Fsearch-bool.html&r=14&f=G&l=50&col=AND&d=PTXT&s1=%22Tinospora+cordifolia%22.ABTX.&s2=%22Tinospora+cordifolia%22.ABTX.&OS=ABST/%22Tinospora+cordifolia%22+AND+ABST/%22Tinospora+cordifolia%22&RS=ABST/%22Tinospora+cordifolia%22+AND+ABST/%22Tinospora+cordifolia%22](http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&p=1&u=%2Fnetacgi%2FPTO%2Fsearch-bool.html&r=14&f=G&l=50&col=AND&d=PTXT&s1=%22Tinospora+cordifolia%22.ABTX.&s2=%22Tinospora+cordifolia%22.ABTX.&OS=ABST/%22Tinospora+cordifolia%22+AND+ABST/%22Tinospora+cordifolia%22&RS=ABST/%22Tinospora+cordifolia%22+AND+ABST/%22Tinospora+cordifolia%22) Visited on 29th April, 2013 at 6.14 PM.

TKDL basically deals with only the documented traditional knowledge in medicinal plants. In the absence of such documentation, the traditional knowledge gets relegated to the realm of indigenous knowledge of the community to be passed on from generation to generation. Such a situation only raises the vulnerability of these plants for biopiracy and also extends an invitation for the foreign element to carry on research and claim an Intellectual Property regime protection. When people around the world are fighting to protect this huge informal knowledge of medicinal plants as part of intellectual property system or as a separate 'sui generis' system, there is no justification not to include this knowledge for documentation. But as the traditional knowledge of medicinal plants of Cooch Behar does not have those written descriptions, naturally this common knowledge either held by the community or some selected people, are out of the reach of TKDL. Therefore it is also suggested that TKDL should look into the matter and takes up for documentation of those traditional knowledge over which there is public use in the society about the use of the medicinal plants. It is strongly recommended that the second phase of TKDL documentation starts the process of documentation of oral description related traditional knowledge. It means that informal knowledge has also to be documented. Otherwise this treasure of vast knowledge either would be lost one day or it would be misappropriated by the developed countries in the name of their invention-as a matter of novelty or non-obviousness. A thorough micro survey should be initiated to find out all unwritten informal common traditional knowledge from every corner of this country including Cooch Behar. It is also advised that before documentation, there is a need to prove and confirm the medicinal values of those plants in the state-of-the-art laboratory by identifying the active ingredients or bio-chemical components, gene structure etc and singling out that bio-chemical component responsible to cure the particular disease. So that it will have a scientific base in a better way and satisfy the requirements of the developed countries to ensure novelty and non-obviousness.

The finding reveals that there are village kabirajs i.e. ayurvedic practitioners, who do not want to disclose their knowledge. They have been using those medicinal plants for different types of diseases since generations after generations but keeping this knowledge very secretly only within their family members or within close confidants, who do not disclose to others. It is absolutely impossible to get information from them. They religiously maintain this secrecy. They are under this fear that if it is disclosed, it would be misappropriated by them. Take for example; Nishiganj village of Cooch Behar is very famous as being the centre to treat broken bones. Thousands of people come from different parts of the state for this purpose. There are a dozen of Kabiraj i.e. medical practitioners; basically the lineal descendants of 'Mushuri Vaidya' and his disciples treat the people with broken bones. They use some medicinal plants, either leaf or root or bark or flower, no one knows that. The combinations of the parts or whole of the medicinal plants and method of preparing the herbal medicine are still not known. The researcher after a painstaking effort of several years got the information of one medicinal plant i.e. Boneset (*Cissus quadrangularis*)

which is used as one important (probably the main element) item to treat broken bones. It has an inherent miraculous medicinal property to re-set the broken bones. But how the herbal medicine is prepared or what are the combinations of other things and quantity of all the ingredients is under misty. But finding this information is good achievement because it can be the beginning to find some other important plant elements of that medicine. There have to be some special packages to entice and encourage these knowledge holders to transfer their knowledge for further research and development which not only will benefit the whole mankind but also can document the knowledge to protect it strongly from bio-piracy. But at present there is no initiative from the part of the government to offer such types of special packages. Moreover, there has to be massive awareness campaign to dispel the fear from their minds. If this policy of special packages and awareness campaign are not launched, this vast knowledge will remain inaccessible for India. One day the rich foreign multi-national corporations would come, approach them with huge amount of money and take the knowledge from them. They will do clinical trials on these medicinal plants and confirm the established facts of their intrinsic medicinal values. Then this knowledge would be their intellectual property and India will lose all claims.

It is found out that some plants have become endangered species. If immediately in-situ or ex-situ preservation measures are not taken, very soon these plants will disappear and required quantity for research and preparation of medicine will not be available as per demand. Take for example Kutaj-Holarrhena antidysenterica. This plant is grown basically in Cooch Behar¹⁸. This plant with immense medicinal values will become extinct. It would be a great loss for the society and the country.

Another important finding shows that the traditional and common practices of applying any medicinal plant, either its bark or root or stem or leaf or flower or seed etc., to treat some diseases or to keep the health good, are not clinically tested in modern scientific laboratory by the researchers of various educational institutions. This is one of the serious drawbacks of the research institutes in this region. Had there been clinical trials to establish and confirm their medicinal values, by mapping their genetic structures, by finding and analysing the bi-chemical components of their genes, DNA etc., these would have been the basis of systematic documentation according to the national or international norms by the TKDL itself. These results of the clinical trials would have been accepted and recognised by the foreign patent offices as conclusive proofs of 'prior art' i.e. existing knowledge and would have been considered before granting patents in their countries as well. Moreover, there is no such systematic study from the preliminary level upto documentation on each and every species of a particular medicinal plant, where a group is assigned to do the work

¹⁸ As was told to the researcher by Dr. Tuhin Sensharma, Government Ayurvediya Databya Chikitsalaya, Debattar Trust Board, Post & Dist-Cooch Behar, West Bengal.

with complete devotion only for one particular plant, in a very organised and institutionalised way. Hence, TKDL should take-up another project accordingly for further research in the above-mentioned way.

It is also found out that though some of the medicinal plants grown in Cooch Behar or used as medicinal plants (either its bark or leaf or root or seed etc.) by the people of this district (see Table No. 1-6), find place in Traditional Knowledge Digital Library (TKDL) but the medicinal values of those plants for which they are used and applied to treat diseases, are not mentioned in the TKDL documentation (see Table No. 8). Though those medicinal plants are documented in TKDL along with the descriptions of the names of diseases under the heading of "Useful in the Treatment of following Diseases" but the treatment of diseases i.e. the purpose for which the people use them, the names of those diseases are not mentioned over there. These medicinal plants are documented for the purpose to treat other diseases. This finding shows that these medicinal plants or their genetic resources still have some other important medicinal properties or have the capacity to treat some other diseases which still remain unexplored and not researched. This fact brings to the fore the urgent necessity to start and pursue research on these medicinal plants.

The shabby experience regarding failed neem battle in US shows another lacuna in the TKDL documentation which is equally true to the existing traditional knowledge on herbal medicine of Cooch Behar; there the patent was not on the particular medicinal value, as the invention claimed to be fulfilling the criterion of novelty and non-obviousness, rather the patent was on process to prepare a pesticide from the neem seed extracts as an invention fulfilling the above-mentioned criterion. As TKDL does not document the process of making the ayurvedic medicines and related products, all the processes of preparing of the medicines and related items remain vulnerable and defenceless in India and elsewhere and prone to be bio-pirated or misappropriated. In this particular case, TKDL documentation of prior art regarding medicinal values of neem was also of no use in US. The traditional knowledge associated with medicinal plants of Cooch Behar is faced with same type of difficulty and lack of protection. What matters most is the method of preparation of the herbal medicine. The method of preparation is also important to ensure the herbal medicine works properly-method of preparation sometimes preserves the medicinal value of the plant or sometimes ensures its efficacy. Much of the curative effect of the medicine depends largely on the method of preparation. This knowledge should not be lost and not to be thrown to the global bio-pirators. Hence, it is strongly recommended that TKDL should start the process for process documentation i.e. the method and manner of preparing of ayurvedic medicines.

Regarding the US patents granted on the medicinal values of plants, commonly used in Cooch Behar (documented or non-documented), the above-mentioned list (see Table No. 10) is not exhaustive but illustrative in nature. There might be many more

such instances of patents granted by other developed countries. The list is just the tip of the iceberg. The list of some patents (see Table No. 10) on the known medicinal values just conveys to the stakeholders i.e. the holders of the traditional knowledge associated with medicinal plants either the country or the society that misappropriation is taking place and the danger of bio-piracy is looming large over the medicinal plants of Cooch Behar. The traditional knowledge remains vulnerable and could be easily misappropriated. In spite of that there is existing traditional knowledge in Cooch Behar associated with some of those medicinal plants, patents have been granted by United States Patent and Trademark Office (USPTO). The chart is the indicator of this unfortunate trend and examples where the medicinal values of those plants are claimed to be novel and non-obvious by the others by denying the fact that these are in public domain and part of existing knowledge. Unless preventive precautionary, defensive or offensive actions are not taken all the traditional knowledge are going to be robbed very soon and “we” the people of Cooch Behar and larger society of India will not get their due share in the profit arising out of the commercialisation of society’s intellectual property i.e. traditional knowledge.

APPENDIX

MEDICINAL VALUES OF THE PLANTS OF COOCH BEHAR DOCUMENTED IN TRADITIONAL KNOWLEDGE DIGITAL LIBRARY: A VERBATIM TRANSCRIPTION OF TKDL DOCUMENTS REGARDING WRITTEN DESCRIPTION OF PRIOR ART¹⁹

Here is an attempt to find out how many of the medicinal plants of Cooch Behar are documented in the Traditional Knowledge Digital Library. Followings are the medicinal plants of Cooch Behar documented in TKDL keeping in view some of the common purposes for which these plants are used in Cooch Behar as were mentioned in the preceding tables (table numbers 1-6). The medicinal value of these plants for which purpose, they are used would be found in all the following headlines i.e. Useful in the Treatment of following Diseases. The verbatim transcriptions, the way it is documented in TKDL are (found through 'advance search' procedure inbuilt in TKDL:

1. *Andrographis paniculata*

1. BP/1032 Jvarabhairavaçr'am

Useful in the Treatment of following Diseases :

Vataja (Vataja), Pittaja (pittaja), Kaphaja (kaphaja), Vata-pittaja (vçtapittaja), Vata-kaphaja (vçtakaphaja), Pitta-kaphaja (pittakaphaja), Sannipataja / Tridosaja (sannipçtaja / tridoç4aja), Exogenous (çgantuja), Pyrexia (jvara), Malaria / Intermittent fever (viç4amajvara), Pyrexia (jvara), Infection due to contaminated water (jaladoç4ajavikera), Fever with predominance of Ama (çmajvara), All types (sarvaprakçrake), Pyrexia (jvara), Dyspepsia/Loss of appetite (agnimçndya), Disease (roga/ vyçdhi), Diseases of spleen (plçhçvikera), Anaemia / Hyperbilirubinaemia (pçç3u), Anorexia (arocaka), Diseases of abdomen (udararoga), Hernia (çntrav"ddhi), Haemorrhagic diseases (raktapitta), Disease (roga/ vyçdhi), Oedema / Inflammation (çotha), Headache (çira"çola), Diseases of nervous system (vçtavvyçdhi), Pain (rjçç/vedançç),

IPC Codes : A61K 125/00, A61K 129/00, A61K 131/00, A61K 133/00, A61K 135/00, A61K 33/00, A61K 33/36, A61K 36/00, A61K 36/15, A61K 36/185, A61K 36/19, A61K 36/23, A61K 36/24, A61K 36/27, A61K 36/28, A61K 36/29, A61K 36/42, A61K 36/428, A61K 36/47, A61K 36/48, A61K 36/484, A61K 36/50, A61K 36/515, A61K 36/53, A61K 36/54, A61K 36/58, A61K 36/59, A61K 36/62, A61K 36/67, A61K 36/714, A61K 36/736, A61K 36/75, A61K 36/80, A61K 36/81, A61K 36/882, A61K 36/8905, A61K 36/896, A61K 36/8965, A61K 36/906, A61K 36/9066, A61K 36/9068, A61K 9/14, A61K 9/20, A61P 1/00, A61P 1/04, A61P 1/06, A61P 1/08, A61P 1/14, A61P 25/00, A61P 25/04, A61P 29/00, A61P 29/02, A61P 3/02, A61P 31/00, A61P 31/04, A61P 33/00, A61P 33/06, A61P 33/08, A61P 43/00, A61P 7/04, A61P 7/06, A61P 7/10, C01B

¹⁹ All documents are available in

http://www.tkdil.res.in/tkdil/langdefault/common/TKDL_AdvanceQuery.asp?GL=Eng.

17/00, C01B 33/42, C01G 13/00, C01G 49/00

Knowledge Known Since : 200 years

Bibliography : Bhārata Bhāi³/₄ajya Ratnākara ,Basavarājyāyam,

Keyword(s)/Ingredient(s) : Zingiber officinale Roscoe(ēdraka, °u°h□)

Rhizome(prakanda),Gentiana kurroo Royle(trēyamē'a, trēyant□)

Root(m|la),Azadirachta indica A. Juss.(nimba) Stem bark(kēn²atvak),Fagonia cretica Linn. / Alhagi pseudalhagi (Bieb.) Desv.(dhanvayēsa)

St.Bark,Leaf,Flower,Fruit&Root(Pancanga),Terminalia chebula Retz.(har□tak□)

Fruit(phala),Cyperus rotundus Linn. / Cyperus scariosus R. Br. / Cyperus

arundinaceum Baker(mustaka, ga²ad|rvē) Rhizome(prakanda),Acorus calamus

Linn.(vacē) Rhizome(prakanda),Cedrus deodara (D.Don) G.Don(devadēru) Stem

bark(kēn²atvak),Solanium surattense Burm. F. Syn.: S. xanthocarpum Schrad. &

Wendl.(ka¹/₄°akē□ (°veta prajāti lak³/₄ma'ē sthēnēpanna au³/₄adhi))

St.Bark,Leaf,Flower,Fruit&Root(Pancanga),Pistacia integerrima J.L.Stewart ex

Brandis(karka°a°¹/₄g□) Gall(k□°ag'ha),Asparagus racemosus Willd.(°atēvar□,

medē-mahēmedē (sthēnēpanna au³/₄adhi)) Root(m|la),Fumaria vaillantii Loisel.

(parpa°a) St.Bark,Leaf,Flower,Fruit&Root(Pancanga),Piper longum Linn.(pippal□)

Root(m|la),Citrullus colocynthis (Linn.) Schrad.(indravēru□) Root(m|la),Inula

helenium Linn./ Inula racemosa Hook.(pu³/₄kara) Root(m|la),Hedychium spicatum

Buch.- Ham.(°a°□) Rhizome(prakanda),Marsdenia tenacissima Wight. & Arn. /

Chonemorpha fragrans (Moon) Alston Syn. C. macrophylla (Roxb.) G. Don.

(m|rvē) Root(m|la),Piper longum Linn.(pippal□) Fruit(phala),Curcuma

longa(haridrē) Rhizome(prakanda),Berberis aristata DC. / Berberis asiatica Roxb. /

Berberis lycium Royle(dēruharidrē) Stem bark(kēn²atvak),Symplocos racemosa

Roxb.(lodhra) Stem bark(kēn²atvak),Santalum album Linn.(candana (°veta)) Heart

wood(kē³/₄°hamajē),Nymphaea stellata Willd.(utpala (n□la))

Flower(pu³/₄pa),Holarrhena antidysenterica (Roxb. ex Flem.) Wall. ex DC.(ku°aja,

indrayava) Stem bark(kēn²atvak),Holarrhena antidysenterica (Roxb. ex Flem.)

Wall. ex DC.(ku°aja, indrayava) Seed(b□ja/ phalēsthi),Glycyrrhiza glabra

Linn.(ya³/₄°imadhu, kl□taka (sthēnēpanna au³/₄adhi)) Root(m|la),Plumbago

zeylanica Linn.(citraka) Root bark(m|latvak),Moringa pterygosperma C.F.

Gaertn.(°igru °veta (madhu °igru)) Seed(b□ja/ phalēsthi),Sida cordifolia Linn.(balē)

Root(m|la),Aconitum heterophyllum Wall. ex Royle(ativi³/₄ē)

Rhizome(prakanda),Picrorhiza kurroa(ka°uk□, ku°ak□)

Rhizome(prakanda),Chlorophytum tuberosum Baker / Asparagus adscendens

Roxb.(mu°al□ °veta) Root(m|la),Prunus cerasoides D. Don(padmaka)

Root(m|la),Trachyspermum ammi (Linn.) Spragne(yavēn□)

Fruit(phala),Desmodium gangeticum (Linn.) DC.(°ēlapar□)

St.Bark,Leaf,Flower,Fruit&Root(Pancanga),Piper nigrum Linn.(marica)

Fruit(phala),Tinospora cordifolia Miers(gu²c□) Stem(kē²a),Aegle marmelos

Correa ex Roxb.(bilva) Stem bark(kēn²atvak),Coleus vettiveroides K.C. Jacob /

Valeriana jatamansii Jones Syn.: V. wallichii DC.(hr□bera, bēlaka)

Root(m|la), Cinnamomum tamala Nees (tejapatra, nalikē (sthēnēpanna au³/adhi))
 Leaf(patra), Cinnamomum zeylanicum Blume (tvak) Stem
 bark(kēn²atvak), Phyllanthus emblica Linn. Syn.: Emblica officinalis
 Gaertn. (ēmalakā) Fruit(phala), Uraria picta (Jacq.) Desv. ex DC. (p^onipar^o)
 Root(m|la), Trichosanthes dioica Roxb. (pa^oola) Leaf(patra), Sulphur (Gandhaka)
 Purified (°uddha), Mercury (p̄rada) Purified (°uddha), Iron (lauha) Calcined /
 Incinerated drug (Bhasma), Mica / Biotite (abhraka) Calcined / Incinerated
 drug (Bhasma), Realgar/Red Arsenic Sulphide (mana^oilē) Calcined / Incinerated
 drug (Bhasma), Andrographis paniculata (Burm.) Nees / Swertia chirayita (Roxb.
 ex Flem.) Karst. (bh^onimba, kēlamegha)
 St. Bark, Leaf, Flower, Fruit & Root (Pancanga),

2. Piper longum

1. AT/136 B^ohanma@ji³/4^ohēdikvētha^a

Useful in the Treatment of following Diseases : Leprosy and other
 dermatoses (ku³/4^oha), Gout (vētarakta), Facial Paralysis (ardita), Gonorrhoea
 (upada³/4^oa), Elephantiasis / Filariasis
 (°lōpada), Paralysis/Hemiplegia (pak³/4^oghēta), Obesity (medov^oddhi), Diseases of the
 eye (netra roga), Paraesthesia (prasupti),

IPC Codes : A61K 125/00, A61K 129/00, A61K 131/00, A61K 135/00, A61K 36/00, A61K 36/15,
 A61K 36/185, A61K 36/19, A61K 36/24, A61K 36/27, A61K 36/28, A61K 36/29, A61K 36/328,
 A61K 36/39, A61K 36/42, A61K 36/428, A61K 36/48, A61K 36/482, A61K 36/487, A61K 36/50,
 A61K 36/51, A61K 36/515, A61K 36/53, A61K 36/58, A61K 36/59, A61K 36/60, A61K 36/67,
 A61K 36/714, A61K 36/74, A61K 36/80, A61K 36/81, A61K 36/855, A61K 36/882, A61K
 36/8905, A61K 36/8965, A61K 36/9066, A61K 36/9068, A61K 9/08, A61K 9/14, A61P 15/00,
 A61P 17/00, A61P 19/00, A61P 19/02, A61P 19/06, A61P 21/00, A61P 25/00, A61P 27/02, A61P
 29/00, A61P 3/04, A61P 3/06, A61P 31/00, A61P 31/08, A61P 33/00, A61P 43/00

Knowledge Known Since : 1000 years

Bibliography : 'ēṛgadhara Sa³/4^ohitē ,

Keyword(s)/Ingredient(s) : triphalē, Terminalia chebula Retz. (har^otakā), Terminalia
 bellirica (Gaertn.) Roxb. (bibh^otaka), Phyllanthus emblica Linn. Syn.: Emblica
 officinalis Gaertn. (ēmalakā), Rubia cordifolia Linn. (ma^oji³/4^ohē)

Root(m|la), Cyperus rotundus Linn. / Cyperus scariosus R. Br. / Cyperus
 arundinaceum Baker (mustaka, ga²ad^orvē) Stem tuber (kē²akanda), Holarrhena
 antidysenterica (Roxb. ex Flem.) Wall. ex DC. (ku^oaja, indrayava) Stem
 bark (kēn²atvak), Tinospora cordifolia Miers (gu²cā) Stem (kē²a), Saussurea lappa
 Clarke (ku³/4^oha) Root(m|la), Zingiber officinale Roscoe (ēdraka, 'u^ohō)
 Rhizome (prakanda), Clerodendrum divaricatum Jack Syn.: C. serratum Spreng. /
 Clerodendrum indicum (Linn.) O. Kuntze (bhēra^ogā) Root(m|la), Solanum surattense
 Burm. F. Syn.: S. xanthocarpum Schrad. & Wendl. (ka³/4^oakēṛā (°veta prajāti
 lak³/4^oma^o ē sthēnēpanna au³/adhi)) Root(m|la), Acorus calamus Linn. (vacē)

Rhizome(prakanda), Azadirachta indica A. Juss. (nimba) Leaf(patra), Curcuma longa (haridr̥) Rhizome(prakanda), Berberis aristata DC. / Berberis asiatica Roxb. / Berberis lycium Royle (d̥ruharidr̥) Stem bark(k̥n²atvak), Trichosanthes dioica Roxb. (pa°ola) Leaf(patra), Picrorhiza kurroa (ka°uk̥, ku°ak̥)

Rhizome(prakanda), Marsdenia tenacissima Wight. & Arn. / Chonemorpha fragrans (Moon) Alston Syn. C. macrophylla (Roxb.) G. Don. (m̥rv̥) Root(m̥la), Embelia ribes Burm. f. / Embelia tsjeriam-cottam A. De Syn. E. robusta C.B Clarke (vi²a-ga) Fruit(phala), Pterocarpus marsupium Roxb. (b̥jaka (asana)) Stem bark(k̥n²atvak), Plumbago zeylanica Linn. (citrika) Root bark(m̥latvak), Asparagus racemosus Willd. (°at̥var̥, med̥-mah̥med̥ (sth̥n̥panna au³/4adhi)) Root(m̥la), Gentiana kurroo Royle (tr̥yam̥°a, tr̥yant̥) Root(m̥la), Ficus religiosa Linn. (a°vattha) Stem bark(k̥n²atvak), Holarrhena antidysenterica (Roxb. ex Flem.) Wall. ex DC. (ku°aja, indrayava) Stem bark(k̥n²atvak), Justicia adhatoda Linn. Syn.: Adhatoda vasica Nees (v̥s̥) Leaf(patra), Eclipta prostrata (Linn.) Linn. Syn.: E. alba (Linn.) Hassk. (bh̥-gar̥ja)

St. Bark, Leaf, Flower, Fruit & Root (Pancanga), Cedrus deodara (D. Don) G. Don (devad̥ru) Heart wood (k̥³/4°hamaj̥j̥), Cissampelos pareira Linn. (p̥°h̥) Root(m̥la), Acacia catechu (Linn. f.) Willd. (khadira) Stem bark(k̥n²atvak), Santalum album Linn. (candana (°veta)) Heart wood (k̥³/4°hamaj̥j̥), Operculina turpethum (Linn.) S. Manso / Operculina petaloidea (Choisy) Ooststr. Syn.: Ipomoea petaloidea Choisy (triv̥ta) Root bark(m̥latvak), Crateva nurvala Buch. -Ham. (varu a) Stem bark(k̥n²atvak), Swertia chirayita (Roxb. ex Flem.) Karst. (kir̥tatikta)

St. Bark, Leaf, Flower, Fruit & Root (Pancanga), Psoralea corylifolia Linn. (b̥kuc̥) Seed (b̥ja/ phal̥sthi), Cassia fistula Linn. (̥ragvadha) Root(m̥la), Streblus asper Lour. (°̥kho°aka, sihora) Root(m̥la), Melia azedarach Linn. (mah̥nimba, kai²arya) Root(m̥la), Pongamia pinnata (Linn.) Pierre (kara°ja, naktam̥la, udak̥rya) Seed (b̥ja/ phal̥sthi), Aconitum heterophyllum Wall. ex Royle (ativi³/4̥) Root(m̥la), Coleus vettiveroides K.C. Jacob / Valeriana jatamansii Jones Syn.: V. wallichii DC. (hr̥bera, b̥laka) Root(m̥la), Citrullus colocynthis (Linn.) Schrad. (indrav̥ru) Root(m̥la), Alhagi maurorum Baker Dexv / Alhagi pseudalhagi (Biedb.) Desv. / Alhagi camelorum (yav̥saka, dhanvay̥sa)

St. Bark, Leaf, Flower, Fruit & Root (Pancanga), Hemidesmus indicus (Linn.) R. Br. (s̥riv̥ (utpalas̥riv̥)) Root(m̥la), Fumaria indica Pugsley Syn.: F. parviflora auct. pl. non Lam. (parpa°a bheda (y.)) Leaf(patra).

2. BP/1029 Jvaran̥gamayrac̥ram

Useful in the Treatment of following Diseases :

Curable (s̥dhyā), Pyrexia (jvara), Malaria / Intermittent fever

(vi³/4amajvara), Pyrexia (jvara), Immuno suppressive / Emaciating

disease (k³/4aya), Fever due to libido (k̥majvara), Pyrexia (jvara), Burning

sensation (d̥ha), Chronic pyrexia (j̥r̥ ajvara), All

types(sarvaprakṛake).Pyrexia(jvara),Diseases of spleen(plōhēvikēra),Diseases of abdomen(udararoga),Jaundice(kēmalē),Anaemia / Hyperbilirubinaemia (pē'²u),Oedema / Inflammation(°otha),Giddiness/Vertigo(bhrama),Polydipsia / Excessive thirst (t'³/₄ ē),Cough / Bronchitis(kēsa),Colic (°|la),Flatulence associated with constipation(ēnēha),Immuno suppressive / Emaciating disease(k³/₄aya),Disease(roga/ vyēdhi),Abdominal lump(gulma),Rheumatism(ēmavēta),Colic (°|la),Colic (°|la),Colic (°|la),Colic (°|la),Colic (°|la),

IPC Codes : A61K 36/899, A61K 125/00, A61K 129/00, A61K 131/00, A61K 133/00, A61K 135/00, A61K 33/00, A61K 36/00, A61K 36/15, A61K 36/185, A61K 36/23, A61K 36/28, A61K 36/29, A61K 36/38, A61K 36/428, A61K 36/484, A61K 36/51, A61K 36/53, A61K 36/54, A61K 36/59, A61K 36/67, A61K 36/714, A61K 36/75, A61K 36/80, A61K 36/81, A61K 36/882, A61K 36/889, A61K 36/8905, A61K 36/898, A61K 36/899, A61K 36/906, A61K 36/9066, A61K 9/14, A61K 9/20, A61P 1/00, A61P 1/04, A61P 1/06, A61P 1/08, A61P 1/10, A61P 1/14, A61P 1/16, A61P 11/00, A61P 11/06, A61P 11/08, A61P 11/12, A61P 13/00, A61P 15/00, A61P 15/12, A61P 19/00, A61P 19/02, A61P 21/00, A61P 25/00, A61P 25/02, A61P 29/00, A61P 29/02, A61P 3/02, A61P 3/12, A61P 31/00, A61P 31/04, A61P 33/00, A61P 33/06, A61P 33/08, A61P 35/00, A61P 37/00, A61P 37/02, A61P 37/04, A61P 37/08, A61P 43/00, A61P 5/00, A61P 5/24, A61P 7/06, A61P 7/10, C01B 17/00, C01B 33/42, C01B 35/12, C01G 13/00, C01G 19/00, C01G 28/00, C01G 3/00, C01G 49/00

Knowledge Known Since : 200 years

Bibliography : Bhārata Bhar'ajya Ratnēkara .

Keyword(s)/Ingredient(s) : trika°u,Zingiber officinale Roscoe(ēdraka, °u°hō),Piper nigrum Linn.(marica),Piper longum Linn.(pippalō),Iron(lauha) Calcined / Incinerated drug(Bhasma),Mica / Biotite(abhraka) Calcined / Incinerated drug(Bhasma),Ore-borax / Sodium baborate(°a'₄ka' a) Calcined / Incinerated drug(Bhasma),Copper(tēmra) Calcined / Incinerated drug(Bhasma),Orpiment / Arsenic trisulphide(haritēla) Calcined / Incinerated drug(Bhasma),Tin / Stannum(va'₄ga) Calcined / Incinerated drug(Bhasma),Mercury(pērada) Purified (°uddha),Sulphur(Gandhaka) Purified (°uddha),Moringa pterygosperma C.F. Gaertn.(°igru °veta (madhu °igru)) Seed(bōja/ phalēsthi),Santalum album Linn.(candana (°veta)) Heart wood(kē'₄°hamajjē),Aconitum heterophyllum Wall. ex Royle(ativi'₄ē) Rhizome(prakanda),Cissampelos pareira Linn.(pē°hē) Root(m'la),Acorus calamus Linn.(vacē) Rhizome(prakanda),Curcuma amada Roxb.(haridrē ēmragandhi) Rhizome(prakanda),Berberis aristata DC. / Berberis asiatica Roxb. / Berberis lycium Royle(dēruharidrē) Heart wood(kē'₄°hamajjē),Vetiveria zizanioides (Linn.) Nash(u°ōra) Root(m'la),Plumbago zeylanica Linn.(citraka) Root bark(m'latvak),Cedrus deodara (D.Don) G.Don(devadēru) Stem bark(kēn²atvak),Trichosanthes dioica Roxb.(pa°ola) Leaf(patra),Malaxis muscifera (Lindl.) O. Kuntze Syn.: Microstylis

36/38, A61K 36/39, A61K 36/42, A61K 36/47, A61K 36/48, A61K 36/482, A61K 36/488, A61K 36/51, A61K 36/54, A61K 36/59, A61K 36/61, A61K 36/67, A61K 36/714, A61K 36/80, A61K 36/81, A61K 36/83, A61K 36/85, A61K 36/855, A61K 36/88, A61K 36/882, A61K 36/888, A61K 36/8905, A61K 36/896, A61K 36/8965, A61K 36/8967, A61K 36/906, A61K 36/9066, A61K 36/9068, A61P 1/04, A61P 1/06, A61P 1/14, A61P 13/00, A61P 13/02, A61P 13/04, A61P 15/08, A61P 15/10, A61P 19/00, A61P 19/02, A61P 21/02, A61P 25/00, A61P 29/00, A61P 31/00, A61P 31/04, A61P 33/00, A61P 33/06, A61P 33/08, A61P 37/00, A61P 37/02, A61P 37/04, A61P 39/06, A61P 43/00, A61P 5/26, A61P 7/12, C01B 17/00, C01B 33/42, C01B 35/12, C01D 3/04, C01G 13/00, C01G 19/00, C01G 21/00, C01G 3/00, C01G 49/00, C08L 93/00

Knowledge Known Since : 200 years

Bibliography : Bhārata Bhai³/ajya Ratnēkara ,Yogaratnēkara^a ,

Keyword(s)/Ingredient(s) : ¼a²¼a^a ,Piper longum Linn.(pippal᳚),Piper longum Linn.(pippal᳚),Piper retrofractum Vahl Syn.: P. chaba Hunter(cavya),Plumbago zeylanica Linn.(citraka),Zingiber officinale Roscoe(ēdraka, °u°h᳚),Piper nigrum Linn.(marica),Barleria prionitis Linn.(saireyaka (p᳚ta pu³¼pa), sahadara) Root(m'la),Alhagi maurorum Baker Dexv / Alhagi pseudalhagi (Biedb.) Desv./Alhagi camelorum(yavēśaka, dhanvayēśa)

St.Bark,Leaf,Flower,Fruit&Root(Pancanga),Aconitum heterophyllum Wall. ex Royle(ativi³¼ē) Root(m'la),Cedrus deodara (D. Don) G. Don(devadēru) Heart wood(kē³¼hamajjē),Solanum surattense Burm. F. Syn.: S. xanthocarpum Schrad. & Wendl.(ka¹¼°akē᳚ (°veta prajēti lak³¼ama' ē sthēnēpanna au³¼adhi)) Root(m'la),Solanum indicum Linn.(b'hat᳚ (kerala)) Root(m'la),Tricholepis angustifolia(brahamada²᳚ bheda)

St.Bark,Leaf,Flower,Fruit&Root(Pancanga),Justicia adhatoda Linn. Syn.: Adhatoda vasica Nees(vēśē) Leaf(patra),Piper longum Linn.(pippal᳚) Fruit(phala),Cyperus rotundus Linn. / Cyperus scariosus R. Br. / Cyperus arundinaceum Baker(mustaka, ga²ad'rvē) Rhizome(prakanda),Acorus calamus Linn.(vacē) Rhizome(prakanda),Coriandrum sativum Linn.(dhēnyaka) Fruit(phala),Asparagus racemosus Willd.(°atēvar᳚, medē-mahēmedē (sthēnēpanna au³¼adhi)) Root(m'la),Sida cordifolia Linn.(balē) Root(m'la),Anethum sowa Roxb. ex Flem.(°atēhvē) Fruit(phala),Argyria nervosa (Burm. f.) Bojer Syn.: A. speciosa (Linn. f.) Sweet / Operculina petaloidea (Choisy) Ooststr. Syn.: Ipomoea petaloidea Choisy(v³ddhadēruka, bastē¹¼tr᳚) Root(m'la),Terminalia chebula Retz.(har᳚tak᳚) Fruit(phala),Zingiber officinale Roscoe(ēdraka, °u°h᳚) Rhizome(prakanda),Tinospora cordifolia Miers(gu²᳚c᳚) Stem(kē²¼a),Hedychium spicatum Buch. - Ham.(°a᳚) Rhizome(prakanda),Cassia fistula Linn.(ēragvadha) Fruit pulp(phalamajjē),Tribulus terrestris Linn.(gok³¼aura) Root(m'la),Boerhaavia diffusa Linn. / Boerhaavia chinensis (Linn.) Asch. & Schw. Syn.: B. repanda Willd.(punarnavē) Root(m'la),Marsdenia tenacissima Wight. & Arn. / Chonemorpha fragrans (Moon) Alston Syn. C. macrophylla (Roxb.) G. Don. (m'rvē) Root(m'la),Picrorhiza kurroa(ka°uk᳚, ku°ak᳚) Rhizome(prakanda),Piper longum Linn.(pippal᳚) Root(m'la),Clerodendrum divaricatum Jack Syn.: C. serratum Spreng. / Clerodendrum indicum (Linn.) O.Kuntze(bhēra-g᳚) Root(m'la),Pueraria tuberosa DC.(vidē᳚, °¼abhaka-j᳚vaka (sthēnēpanna au³¼adhi))

Tuber/bulb/corm(kanda), Sphaeranthus indicus Linn. (mu²itikē, bh|kadamba, °rēva²) St. Bark, Leaf, Flower, Fruit & Root (Pancanga), Leea macrophylla Roxb. ex Horn. (hastikar²apalē²a, hast²akanda) Tuber/bulb/corm(kanda), Trachyspermum roxburghianum (DC.) Craib (ajamodē) Seed (b²aja/ phalē²sthi), Pistacia integerrima J.L. Stewart ex Brandis (karka²a²°²¼g²) Gall (k²ag²ha), Elaeocarpus sphaericus (Gaertn.) K. Schum. Syn.: E. ganitrus Roxb. (rudrē²¼a) Fruit (phala), Chlorophytum tuberosum Baker / Asparagus adscendens Roxb. (mu²al²°veta) Tuber/bulb/corm(kanda), Vitex agnus-castus Linn. / Vitex negundo Linn. (re²ukē) Seed (b²aja/ phalē²sthi), Liliium polyphyllum D. Don / Withania somnifera (Linn.) Dun. (kakol², k²¼rake²kol²).

Tuber/bulb/corm(kanda), Operculina turpethum (Linn.) S. Manso / Operculina petaloidea (Choisy) Ooststr. Syn.: Ipomoea petaloidea Choisy (triv²ta) Root bark (m²latvak), Baliospermum montanum (Willd.) Muell.-Arg. (dant²) Root (m²la), Plumbago indica Linn. (citraka rakta) Root (m²la), Hygrophila auriculata (Schum.) Heine Syn.: Astercantha longifolia (Linn.) Nees (kokilē²¼a) Root (m²la), Fagonia cretica Linn. / Alhagi pseudalhagi (Bieb.) Desv. (dhanvayēsa) St. Bark, Leaf, Flower, Fruit & Root (Pancanga), Terminalia arjuna (Roxb.) Bedd. (arjuna) Stem bark (kēn²atvak), Saussurea lappa Clarke (ku²¼ha) Root (m²la), Aquilaria malaccensis Lam. Syn.: A. agallocha Roxb. (agaru) Irregular patches of dark wood highly charged with oleoresin (k²mijagdhakē²¼ha), Myristica fragrans Houtt. (jēt²phala, jēt²ipatr²) Aril (ko²apatra), Myristica fragrans Houtt. (jēt²phala, jēt²ipatr²) Seed (b²aja/ phalē²sthi), Eleteria cardamomum (Linn.) Maton (s²k²¼mailē

2. HG/583 ½a°palagh²tam (01)

Useful in the Treatment of following Diseases : Diseases of spleen (pl²chēvikēra), Malaria / Intermittent fever (vi²¼amajvara), Dyspepsia/Loss of appetite (agnimēndya), Anorexia (arocaka),

IPC Codes : A61K 35/20, A61P 1/04, A61P 1/06, A61P 1/08, A61P 1/14, A61P 29/00, A61P 31/00, A61P 33/00, A61P 33/06, C01D 3/04

Knowledge Known Since : 1000 years

Bibliography : Bhērata Bhai²¼ajya Ratnēkara .Yogarāt²nēkara², Gadani²graha², V²ndamēdhava,

Keyword(s)/Ingredient(s) : pa²cakola, Piper longum Linn. (pippal²), Piper longum Linn. (pippal²), Piper retrofractum Vahl Syn.: P. chaba Hunter (cavya), Plumbago zeylanica Linn. (citraka), Zingiber officinale Roscoe (ēdraka, °u²h²), Rock salt / Indian rock salt (Saindhava lavana), Clarified butter (gh²ta/sarpi) Cow (gau), Milk (dugdha/k²¼ra/payas) Cow (gau),

4. Terminalia chebula

1. BP/1013 Javananémérasa^a

Useful in the Treatment of following Diseases : All

types(sarvaprakṛake), Indigestion(ajṛ'a), Vata-kaphaja(vṛtakaphaja), Anaemia / Hyperbilirubinaemia (pṛ'²u), Oedema / Inflammation(°oṭha), Chronic obstructive jaundice/Chlorosis(halṁmaka), Jaundice(kṛmalē), Colic (°la),

IPC Codes : A61K 125/00, A61K 131/00, A61K 135/00, A61K 33/00, A61K 36/00, A61K 36/185, A61K 36/23, A61K 36/47, A61K 36/59, A61K 36/67, A61K 36/714, A61K 36/81, A61K 36/9068, A61K 9/08, A61K 9/14, A61K 9/20, A61P 1/04, A61P 1/06, A61P 1/14, A61P 1/16, A61P 3/02, A61P 31/00, A61P 7/06, A61P 7/10, C01B 17/00, C01B 35/12, C01D 3/04, C01G 13/00

Knowledge Known Since : 500 years

Bibliography : Bhārata Bhai³ajya Ratnēkara .

Keyword(s)/Ingredient(s) : Mercury(pṛada) Purified (°uddha), Sulphur(Gandhaka) Calcined / Incinerated drug(Bhasma), Rock salt / Indian rock salt(Saindhava lavana) , Piper longum Linn. (pippalṁ) Fruit(phala), Ore-borax / Sodium biborate(°a¼ka'a) Roasted / Fried / Parched(bharjita), Terminalia chebula Retz. (harṁtakṁ)

Fruit(phala), Plumbago zeylanica Linn. (citraka) Root bark(m'latvak), Euphorbia thomsoniana Boiss. / Argemone mexicana Linn. (svar'ak³/ṁrṁ)

St. Bark, Leaf, Flower, Fruit & Root (Pancanga), Strychnos potatorum Linn. f. (kataka) Seed(bṁja/ phalēsthi), Solanum indicum Linn. (b'hatṁ (kerala))

St. Bark, Leaf, Flower, Fruit & Root (Pancanga), Zingiber officinale Roscoe (ēdraka, °u °hṁ) Fresh rhizome / tuber (Arḍra kanda), Ferula foetida regel (hi-gu)

Exudate (niryṣa), Boerhaavia diffusa Linn. / Boerhaavia chinensis (Linn.) Asch. & Schw. Syn.: B. repanda Willd. (punarnavē) Root (m'la), Holoptelea integrifolia (Roxb.) Planch. (p'tikaraṁja) Leaf (patra), Tinospora cordifolia Miers (gu²cṁ)

Stem (kē'²a), Aconitum ferox Wall. ex Ser. (vatsanēbha bheda) Root tuber (m'lakanda),

5. Phyllanthus emblica

1. BP/1014 Javananandēbhram

Useful in the Treatment of following Diseases : Malaria / Intermittent fever

(vi³/amajvara), Diseases of spleen (plchēvikēra), Liver disease (yak'tavikēra), Vomiting / Emesis (chardī), Haemorrhagic diseases (raktapitta), Gout (vṛtarakia), Sprue / Malabsorption Syndrome

(graha'ṁ), Dyspnoea (°vēsa), Cough / Bronchitis (kēsa), Anorexia (arocaka), Malaria / Intermittent fever (vi³/amajvara), Nausea (h'llēsa), Piles / Ano rectal mass / Haemorrhoids (ar'ā),

IPC Codes : A61K 125/00, A61K 131/00, A61K 135/00, A61K 33/00, A61K 36/00, A61K 36/19, A61K 36/23, A61K 36/47, A61K 36/59, A61K 36/81, A61K 36/8905, A61K 9/08, A61K 9/14, A61K 9/20, A61P 1/04, A61P 1/06, A61P 1/08, A61P 1/10, A61P 1/12, A61P 1/14, A61P 1/16,

A61P 11/00, A61P 11/06, A61P 11/08, A61P 11/12, A61P 15/08, A61P 15/10, A61P 19/00, A61P 19/02, A61P 19/06, A61P 29/00, A61P 31/00, A61P 33/00, A61P 33/06, A61P 37/02, A61P 37/04, A61P 37/08, A61P 39/06, A61P 5/26, A61P 7/04, A61P 9/14, C01B 33/42

Knowledge Known Since : 200 years

Bibliography : Bherata Bhai³/ajya Ratn²ekara .

Keyword(s)/Ingredient(s) : Mica / Biotite(abhraka) Calcined / Incinerated drug(Bhasma), Cuminum cyminum Linn.(^ovetaj^oraka) Fruit(phala), Datura metel Linn. / Datura inoxia Mill. / Datura stramonium Linn.(dhatt^ora) Seed(b^oja/ phal^osthi), Justicia adhatoda Linn. Syn.: Adhatoda vasica Nees(v^oś^oś) Leaf(patra), Solanum surattense Burm. F. Syn.: S. xanthocarpum Schrad. & Wendl.(ka^o¼^oak^oś^oś^o (^oveta praj^octi lak^o¼^oma^o ¼^o sth^oñ^oēpanna au^o¼^oadhi)) St.Bark, Leaf, Flower, Fruit & Root (Pancanga), Phyllanthus emblica Linn. Syn.: Emblica officinalis Gaertn.(ēmalak^o) Fruit(phala), Cyperus rotundus Linn. / Cyperus scariosus R. Br. / Cyperus arundinaceum Baker(mustaka, ga^o¼^oad^orv^oś) Rhizome(prakanda), Tinospora cordifolia Miers(gu^o¼^oc^o) Stem(k^o¼^oa),

6. Adhatoda vasica

1. AT/03 V^oś^oś^ovarasa^o

Useful in the Treatment of following Diseases : Haemorrhagic diseases (raktapitta), Cough / Bronchitis(k^ośa), Tubercular cough / Cough due to weakness or emaciation(k^o¼^oayaja k^ośa), Jaundice(k^oēmal^oś), Pyrexia(jvara), Pitta-kaphaja(pittakaphaja),

IPC Codes : A61K 36/00, A61K 36/19, A61K 9/08, A61P 1/16, A61P 11/00, A61P 11/06, A61P 11/08, A61P 11/12, A61P 29/00, A61P 31/00, A61P 31/04, A61P 31/06, A61P 33/00, A61P 33/06, A61P 33/08, A61P 37/08, A61P 43/00, A61P 7/04

Knowledge Known Since : 500 years

Bibliography : ¼^oēr-gadhara Sa^o¼^ohit^oś .

Keyword(s)/Ingredient(s) : Justicia adhatoda Linn. Syn.: Adhatoda vasica Nees(v^oś^oś) Leaf(patra),

2. RG/175 Dr^oś^o¼^oēdic^or'am (07)

Useful in the Treatment of following Diseases : Cough / Bronchitis(k^ośa), Dyspnoea(^ov^ośa), Bronchial asthma(tamaka ^ov^ośa),

IPC Codes : A61K 131/00, A61K 35/20, A61K 36/00, A61K 36/185, A61K 36/19, A61K 36/67, A61K 36/87, A61K 9/14, A61P 11/00, A61P 11/06, A61P 11/08, A61P 11/12, A61P 37/08

Knowledge Known Since : 1000 years

Bibliography : Bherata Bhai³/ajya Ratn²ekara , Yogaratn²ekara^o ,

Keyword(s)/Ingredient(s) : Vitis vinifera Linn.(dr^oś^o¼^oē) Fruit(phala), Justicia adhatoda Linn. Syn.: Adhatoda vasica Nees(v^oś^oś) Leaf(patra), Terminalia chebula Retz.(har^o¼^otak^o) Fruit(phala), Piper longum Linn.(pippal^o) Fruit(phala), Honey(madhu/k^o¼^oaudra) , Clarified

butter(gh`ta/sarpi) ,

7. Leucas aspera

1. JK06/140 Thumbai Nasiyam

Useful in the Treatment of following Diseases : Headache (Thalai Vali), Kaphaja(Iyyam, Kabam, Siletthumam), Angina pectoris(Maarbu Vali), Sannipataja / Tridosaja(Mukkuṭra Noigal),

IPC Codes : A61K 36/53, A61P 29/00, A61P 9/00, A61P 9/08, A61P 9/10, A61P 9/12, C01D 3/04
Knowledge Known Since : 500 years

Bibliography : Therayar Tharu,

Keyword(s)/Ingredient(s) : Leucas aspera Spreng. (Thumbai, Imuganaar vettri) Flower(Poo ,malar, Malar ethazh), Salt / Sodium Chloride(Sotruppu, Kariuppu, Lavanam, Samuthira lavanam) ,

8. Oroxylum indicum

1. HG/509 ¹r²ēmarēnandēbhram

Useful in the Treatment of following Diseases : All types(sarvaprakēra), Cough /

Bronchitis(kēsa), Hoarseness(svarabheda), Pulmonary cavitation(ura³ k³ata), Hiccough(hikkē), Pyrexia(jvara), Dyspnoea(°vēsa), Ozaena, sinusitis(HR)(pānaṣa), Urinary disorders / Polyuria(Prameha / meha), Abdominal lump(gulma), Anorexia (arocaka), Immuno suppressive / Emaciating disease(k³aya), Tuberculosis / Pthysis(rējayak³amē), Hyperacidity(amlapitta), Burning sensation(dēha), Delusion / Bewilderment(moha), All types(sarvaprakēra), Colic (°la), Disease with Kapha predominance(kaphavikēra), Worm infestation(k³mi roga), Vomiting / Emesis (chardi), Anaemia / Hyperbilirubinaemia (pē³u), Chronic obstructive jaundice/Chlorosis(hal³maka), Diseases of pharynx and larynx(ka³hagataroga), Eruptions(vispho³aka), Jaundice(kēmalē), Dyspepsia/Loss of appetite(agnimēndya), Sprue / Malabsorption Syndrome (graha³), Liver disease(yak³tavikēra), Diseases of spleen(pl³hēvikēra), Piles / Ano rectal mass / Haemorrhoids(ar³a), Disease with Kapha predominance(kaphavikēra),

IPC Codes : A61K 125/00, A61K 129/00, A61K 131/00, A61K 33/00, A61K 36/00, A61K 36/185, A61K 36/19, A61K 36/21, A61K 36/48, A61K 36/67, A61K 36/75, A61K 36/81, A61K 36/855, A61K 36/9068, A61K 9/08, A61K 9/14, A61K 9/20, A61P 1/00, A61P 1/04, A61P 1/06, A61P 1/08, A61P 1/10, A61P 1/12, A61P 1/14, A61P 1/16, A61P 11/00, A61P 11/02, A61P 11/04, A61P 11/06, A61P 11/08, A61P 11/12, A61P 13/00, A61P 13/02, A61P 15/08, A61P 15/10, A61P

17/02, A61P 21/06, A61P 25/00, A61P 25/02, A61P 25/18, A61P 25/24, A61P 27/14, A61P 29/00, A61P 3/02, A61P 31/00, A61P 31/04, A61P 31/06, A61P 31/16, A61P 33/00, A61P 33/06, A61P 33/08, A61P 33/10, A61P 37/00, A61P 37/02, A61P 37/04, A61P 37/08, A61P 39/06, A61P 43/00, A61P 5/26, A61P 7/04, A61P 7/06, A61P 7/10, A61P 7/12, A61P 9/00, A61P 9/14, C01B 33/42

Knowledge Known Since : 200 years

Bibliography : Bhārata Bhai³ajya Ratnēkara .

Keyword(s)/Ingredient(s) : Mica / Biotite(abhraka) Calcined / Incinerated drug(Bhasma), Solanum surattense Burm. F. Syn.: S. xanthocarpum Schrad. & Wendl. (ka¹akēṛṇ (°veta prajēti lak³ma'ē sthēnēpanna au³adhi))

St. Bark, Leaf, Flower, Fruit & Root (Pancanga), Justicia adhatoda Linn. Syn.:

Adhatoda vasica Nees (vēṣē) Leaf (patra), Desmodium gangeticum (Linn.)

DC. (°ēlapar'ṇ) Root (m|la), Aegle marmelos Correa ex Roxb. (bilva) Stem

bark (kēn²atvak), Oroxyllum indicum (Linn.) Venten (°yonēka) Stem

bark (kēn²atvak), Stereospermum chelonoides (Linn. F.) DC. Syn.: S. suaveolens

(Roxb.) DC. (pē¹alē) Root (m|la), Uraria picta (Jacq.) Desv. ex DC. (p¹ōnipar'ṇ)

St. Bark, Leaf, Flower, Fruit & Root (Pancanga), Clerodendrum divaricatum Jack Syn.:

C. serratum Spreng. / Clerodendrum indicum (Linn.) O. Kuntze (bhēra-gṇ)

Root (m|la), Zingiber officinale Roscoe (ēdraka, °u'°hṇ) Fresh rhizome /

tuber (Arḍra kanda), Plumbago zeylanica Linn. (citraka) Root (m|la), Piper longum

Linn. (pippalṇ) Root (m|la), Tribulus terrestris Linn. (gok³ura)

St. Bark, Leaf, Flower, Fruit & Root (Pancanga), Piper retrofractum Vahl Syn.: P.

chaba Hunter (cavya) Fruit (phala), Achyranthes aspera Linn. (apēmerga)

St. Bark, Leaf, Flower, Fruit & Root (Pancanga), Mucuna pruriens (Linn.) DC. Syn.:

M. prurita Hook. (ētmaguptē) Root (m|la),

9. Holarrhena antidysenterica

1. AT/141 Mustakē dipramathyē

Useful in the Treatment of following Diseases : Blood dysentery (raktētisēra),

IPC Codes : A61K 131/00, A61K 135/00, A61K 36/00, A61K 36/24, A61K 36/8905, A61K 9/00, A61K 9/08, A61P 1/06, A61P 1/12, A61P 33/04

Knowledge Known Since: 500 years

Bibliography: Bhārata Bhai³ajya Ratnēkara, 'ēr-gadhara Sa³hitē, **Keyword(s)/Ingredient(s)**

: Cyperus rotundus Linn. / Cyperus scariosus R. Br. / Cyperus arundinaceum

Baker (mustaka, ga²ad:rvē) Stem tuber (kē²akanda), Holarrhena antidysenterica (Roxb. ex Flem.) Wall. ex DC. (ku¹aja, indrayava) Seed (b¹aja/ phalēsthi),

0. *Tinospora cordifolia*

BP/1013 Javananemerasa^a

Useful in the Treatment of following Diseases : All

types(sarvaprakṛake), Indigestion(ajṛ'a), Vata-kaphaja(vṛtakaphaja), Anaemia / Hyperbilirubinaemia (pē'ṣu), Oedema / Inflammation(ōtha), Chronic obstructive jaundice/Chlorosis(halṣmaka), Jaundice(kēmaḷe), Colic (ōḷa),

IPC Codes : A61K 125/00, A61K 131/00, A61K 135/00, A61K 33/00, A61K 36/00, A61K 36/185, A61K 36/23, A61K 36/47, A61K 36/59, A61K 36/67, A61K 36/714, A61K 36/81, A61K 36/9068, A61K 9/08, A61K 9/14, A61K 9/20, A61P 1/04, A61P 1/06, A61P 1/14, A61P 1/16, A61P 3/02, A61P 31/00, A61P 7/06, A61P 7/10, C01B 17/00, C01B 35/12, C01D 3/04, C01G 13/00

Knowledge Known Since : 500 years

Bibliography : Bhṛata Bhaiṣajya Ratnākara ,

Keyword(s)/Ingredient(s) : Mercury(pṛada) Purified (ōuddha), Sulphur(Gandhaka) Calcined / Incinerated drug(Bhasma), Rock salt / Indian rock salt(Saindhava lavana) , Piper longum Linn.(pippalṣ) Fruit(phala), Ore-borax / Sodium biborate(ōa'ka'a) Roasted / Fried / Parched(bharjita), Terminalia chebula Retz. (harṣtakṣ) Fruit(phala), Plumbago zeylanica Linn.(citraka) Root bark(mḷatvak), Euphorbia thomsoniana Boiss. / Argemone mexicana Linn.(svar'akṣ) St. Bark, Leaf, Flower, Fruit&Root(Pancanga), Strychnos potatorum Linn. f. (kataka) Seed(bṛja/ phalēsthi), Solanum indicum Linn.(b'hatṣ (kerala)) St. Bark, Leaf, Flower, Fruit&Root(Pancanga), Zingiber officinale Roscoe(ēdraka, ōu'ḥṣ) Fresh rhizome / tuber(Arḍra kanda), Ferula foetida regel(hi'gu) Exudate(niryṣa), Boerhaavia diffusa Linn. / Boerhaavia chinensis (Linn.) Asch. & Schw. Syn.: B. repanda Willd.(punarnavṣ) Root(mḷa), Holoptelea integrifolia (Roxb.) Planch.(pṭikaraṣja) Leaf(patra), *Tinospora cordifolia* Miers(gu'ṣṣ) Stem(kē'ṣa), Aconitum ferox Wall. ex Ser. (vatsanṣbha bheda) Root tuber(mḷakanda),

11. *Alstonia scholaris*

1. AH2/87 Majoon-e- Foodanaj

Useful in the Treatment of following Diseases : Gastralgia(Waja'-ul-Meda), Hepatalgia(Waja-ul-Kabid), Chill and rigors(Larzah-wa-Qasha'reerah), Fever/Pyrexia(Humma),

IPC Codes : A23G 9/52, A23L 1/09, A61K 131/00, A61K 36/23, A61K 36/24, A61K 36/28, A61K 36/53, A61K 36/534, A61K 36/67, A61P 1/04, A61P 1/16, A61P 29/00, A61P 29/02, A61P 33/06, A61P 37/00, A61P 37/08, A61P 43/00

Knowledge Known Since : 1000 years

Bibliography : Al Qaanoon fil Tibb ,

Keyword(s)/Ingredient(s) : Mentha piperita Linn. (Fudanaj) , Petroselinum crispum (Mill.) Nyman ex A. W. Hill(Fitrasaliyun/Karafs-e-Kohi) , Levisticum officinale Koch(Sisaliyus/Lufasteeqoon/Liqusteeqoon/Kaashim/Anjodaan Roomi/Kaashin) , Apium graveolens Linn.(Ajmod/Karafs) Seed(Tukhm/Bazr/Buzoor), Matricaria chamomilla Linn.(Baaboonah/Marahti/Maratti/Daadh ki Doodi) , Thymus vulgaris Linn.(Habaq jabali/Hasha) , *Alstonia scholaris* (Linn.)R. Br.(Kashim/Chatim) , Piper nigrum Linn.(Filfil (Safaid/Siyah)) Seed(Tukhm/Bazr/Buzoor), Honey(Shahad/A'sal) ,

12. Mimusops elengi

1. BP/1080B Bakulabojjayoga^a

Useful in the Treatment of following Diseases : Loose teeth(dantacala),

IPC Codes : A61K 131/00, A61K 36/185, A61P 1/02

Knowledge Known Since : 500 years

Bibliography : Bhārata Bhai³/ajya Ratnākara ,Gadanigraha^a ,

Keyword(s)/Ingredient(s) : Mimusops elengi Linn.(bakula) Seed(bōja/ phalēsthi),

13. Nyctanthes arbour tristis

1. BP/1069 Jvarebhasi¹/4horasa^a (02)

Useful in the Treatment of following Diseases : Pyrexia(jvara),

IPC Codes : A61K 125/00, A61K 33/00, A61K 36/00, A61K 36/185, A61K 36/714, A61K 36/9068, A61K 9/08, A61K 9/14, A61K 9/20, A61P 29/00, A61P 31/00, A61P 31/04, A61P 33/00, A61P 33/06, A61P 33/08, A61P 43/00, C01B 17/00, C01G 13/00, C01G 3/00, C13D 1/00

Knowledge Known Since : 500 years

Bibliography : Bhārata Bhai³/ajya Ratnākara ,

Keyword(s)/Ingredient(s) : Mercury(pārada) Purified (°uddha), Sulphur(Gandhaka) Purified (°uddha), Copper(tēma) Calcined / Incinerated drug(Bhasma), Aconitum chasmanthum

Stapf & Holmes / Aconitum ferox Wall. ex Ser. (°¹/4gika vi³/4a) Root

tuber(malakanda), Nyctanthes arbour-tristis Linn.(pārījetaka, °ephēlikē) Leaf(patra), Zingiber officinale Roscoe(ēdraka, °u^ohō) Fresh rhizome / tuber(Ardra kanda),

14. Cuscuta reflexa

1. JA3/137 Kheyaarshambar

Useful in the Treatment of following Diseases : Pharyngitis(Iltehaab-e-Halaq), Jaundice(Yaraqaan-e-Asfar), Hepatitis(Waram-e-Kabid), Diphtheria(Khunaaq-e-wabaai), Gout (Niqrīs), Arthralgia(Waja'-al-Mafaasil), Tenesmus(Maghs), Weakness of intestine(Zo'f-e-Amā),

IPC Codes : A61P 19/00, A61K 131/00, A61K 36/00, A61K 36/23, A61K 36/28, A61K 36/39, A61K 36/43, A61K 36/48, A61K 36/482, A61K 36/60, A61K 36/68, A61K 36/736, A61K 36/81, A61P 1/02, A61P 1/06, A61P 1/10, A61P 1/14, A61P 1/16, A61P 11/04, A61P 19/00, A61P 19/02, A61P 19/06, A61P 29/00, A61P 31/00, A61P 31/04, C01B 5/00

Knowledge Known Since : 1000 years

Bibliography : Al Jaame' li Mufradaat al Advia wal Aghzia,

Keyword(s)/Ingredient(s) : Cassia fistula Linn.(Amaltaas/Kheyaar shambar) Fruit(Samar/Fawakeh),

15. *Nicotiana tabacum*

1. GD02/31 Velli Parpam

Useful in the Treatment of following Diseases : Cough /

Bronchitis(Irumal,Kaasam),Tuberculosis / Pthisis(Elaippu,Sayam,Raja yashmam, Visushi),Diseases of the urinary system(Siriuneeraga Noigal),Tuberculosis / Pthisis(Elaippu,Sayam,Raja yashmam, Visushi),Bronchial asthma(Eraippu Erunal),Perineal fistulas / Fistula-in-ano(Pavuthiram),Piles / Ano rectal mass /

Haemorrhoids(Moolam),Tenesmus(Mukkal),

IPC Codes : A61K 125/00, A61K 131/00, A61K 133/00, A61K 36/00, A61K 36/185, A61K 36/48, A61K 36/67, A61K 36/81, A61K 9/06, A61K 9/14, A61P 1/10, A61P 11/00, A61P 11/06, A61P 11/08, A61P 11/12, A61P 13/00, A61P 13/02, A61P 17/02, A61P 29/00, A61P 31/00, A61P 31/06, A61P 37/08, A61P 7/04, A61P 9/14, C01G 5/00

Knowledge Known Since : 1000 years

Bibliography : Agathiyar paripooranam 400,

Keyword(s)/Ingredient(s) : Silver(Velli,Sukkiran,Madurai podhu,Ven thaadhu,Ven pon,Rasidha mani,Kala thoudham) ,Mimusops elengi Linn.(Magilam, Ilangi, Vagulam, Mogadam) Flower(Poo ,malar,Malar ethazh),Tephrosia spinosa(Mullkolinji, Mukkaaivelai, Mutkkaaivelai) Root(Ver),

16. *Punica granatum*

1. VS/2736 Ku^oajedika^{3/4}eya^a (01)

Useful in the Treatment of following Diseases : All types(sarvaprak^rake),Acute diarrhoea(atiscra),Ama(^ema),Colic (^ola),Dysentery/Gastroenterocolitis(prav^hhik^e),

IPC Codes : A61K 125/00, A61K 129/00, A61K 131/00, A61K 133/00, A61K 135/00, A61K 36/185, A61K 36/24, A61K 36/59, A61K 36/75, A61K 36/84, A61K 36/8905, A61K 9/08, A61P 1/00, A61P 1/04, A61P 1/06, A61P 1/12, A61P 1/14, A61P 31/00

Knowledge Known Since : 50 years

Bibliography : Sahastrayoga ,

Keyword(s)/Ingredient(s) : *Holarthena antidysenterica* (Roxb. ex Flem.) Wall. ex DC.(ku^oaja, indrayava) Stem bark(k^en²atvak),*Punica granatum* Linn.(d^eima)

Fruit(phala),*Cyperus rotundus* Linn. / *Cyperus scariosus* R. Br. / *Cyperus arundinaceum*

Baker(mustaka, ga²ad^rv^e) Stem tuber(k^eakanda),*Woodfordia fruticosa* (Linn.)

Kurz.(dh^tak^o) Flower(pu^{3/4}pa),*Aegle marmelos* Correa ex Roxb.(bilva) Fruit

pulp(phalamaj^e),*Valeriana jatamansii* Jones Syn.: *V. wallichii* DC.(tagara, b^elaka)

Rhizome(prakanda),*Symplocos racemosa* Roxb.(lodhra) Stem bark(k^en²atvak),*Santalum*

album Linn.(candana (^oveta)) Heart wood(k^e^{3/4}hamaj^e),*Cissampelos pareira* Linn.(p^e^oh^e)

Root(m^ola),Honey(madhu/k^{3/4}audra) ,

17. Rauvolfia serpentina

S.No.	Formulation
1.	<p>MA3/201 Dawaush-shifa</p> <p>Useful in the Treatment of following Diseases : Psychosis/Insanity/Mania(Mania/Junoon),Melancholia(Maali Kholia),Epilepsy(Sara/Mirgi),Hysteria(Ikhtinaaq-e-Rehm),Insomnia(Sahar), IPC Codes : A61K 125/00, A61K 131/00, A61K 36/24, A61K 36/67, A61K 9/20, A61P 25/00, A61P 25/02, A61P 25/08, A61P 25/10, A61P 25/12, A61P 25/18, A61P 25/20, A61P 25/24, A61P 29/00 Knowledge Known Since : 50 years Bibliography : Bayaaz e Kabir, Keyword(s)/Ingredient(s) : Rauvolfia serpentina Benth. ex Kurz(Asrol) Root(Beekh/Asl/Usool),Piper nigrum Linn.(Filfil (Safaid/Siyah)) Fruit(Samar/Fawakeh),</p>

18. Dioscorea composita

S.No.	Formulation
1.	<p>BP/1087 Jvaraharabasti^a</p> <p>Useful in the Treatment of following Diseases : Pyrexia(jvara), IPC Codes : A61K 125/00, A61K 131/00, A61K 135/00, A61K 35/20, A61K 36/00, A61K 36/185, A61K 36/23, A61K 36/27, A61K 36/28, A61K 36/484, A61K 36/67, A61K 36/882, A61K 36/8965, A61K 36/8969, A61K 36/898, A61K 36/9068, A61K 9/00, A61P 29/00, A61P 31/00, A61P 31/04, A61P 33/00, A61P 33/06, A61P 33/08, A61P 43/00, C01B 5/00 Knowledge Known Since : 1000 years Bibliography : Bherata Bhar³/ajya Ratn³kara ,Caraka Sa³/hit³ , Keyword(s)/Ingredient(s) : Leptadenia reticulata Wight & Arn.(j³ovant³) St.Bark,Leaf,Flower,Fruit&Root(Pancanga),Glycyrrhiza glabra Linn.(ya³/imadhu, kl³taka (sth³en³panna au³/adhi)) Root(m³/la),Polygonatum cirrhifolium Royle / Asparagus racemosus Willd.(mah³med³, med³) Tuber/bulb/corm(kanda),Piper longum Linn.(pippal³) Fruit(phala),Piper nigrum Linn.(marica) Fruit(phala),Acorus calamus Linn.(vac³) Rhizome(prakanda),Habenaria intermedia D. Don / Dioscorea bulbifera Linn.(³ddhi-v³ddhi bheda (kerala)) Rhizome(prakanda),Pluchea lanceolata Oliv. & Hiern / Alpinia galanga(Linn.)Willd.(r³sn³) St.Bark,Leaf,Flower,Fruit&Root(Pancanga),Sida cordifolia Linn.(bal³) Root(m³/la),Zingiber officinale Roscoe(³draka, ³u³/h³) Rhizome(prakanda),Anethum sowa Roxb. ex Flem.(³at³h³v³) Fruit(phala),Asparagus racemosus Willd.(³at³var³, med³-mah³med³ (sth³en³panna au³/adhi)) Root(m³/la),Milk(dugdha/k³/ra/payas) ,Water(jala/udaka) ,Sesamum indicum Linn.(tila) Oil(taila),Clarified</p>

19. Solanum khasianum

1. BP/1032 Jvarabhairavac'r'am

Useful in the Treatment of following Diseases :

Vataja(Vataja),Pittaja(pittaja),Kaphaja(kaphaja),Vata-pittaja(vētapittaja),Vata-kaphaja(vētakaphaja),Pitta-kaphaja(pittakaphaja),Sannipataja / Tridosaja(sannipētaja / trido³aja),Exogenous (ēgantuja),Pyrexia(jvara),Malaria / Intermittent fever (vi³amajvara),Pyrexia(jvara),Infection due to contaminated water(jalado³ajavikēra),Fever with predominance of Ama(ēmajvara),All types(sarvaprakēra),Pyrexia(jvara),Dyspepsia/Loss of appetite(agnimēndya),Disease(roga/ vyēdhi),Diseases of spleen(plēhēvikēra),Anaemia / Hyperbilirubinaemia (pē²u),Anorexia (arocaka),Diseases of abdomen(udararoga),Hernia (ēntrav²ddhi),Haemorrhagic diseases (raktapitta),Disease(roga/ vyēdhi),Oedema / Inflammation(ōtha),Headache (ōira^{oo}la),Diseases of nervous system(vētavayēdhi),Pain(rjē/vedanē),

IPC Codes : A61K 125/00, A61K 129/00, A61K 131/00, A61K 133/00, A61K 135/00, A61K 33/00, A61K 33/36, A61K 36/00, A61K 36/15, A61K 36/185, A61K 36/19, A61K 36/23, A61K 36/24, A61K 36/27, A61K 36/28, A61K 36/29, A61K 36/42, A61K 36/428, A61K 36/47, A61K 36/48, A61K 36/484, A61K 36/50, A61K 36/515, A61K 36/53, A61K 36/54, A61K 36/58, A61K 36/59, A61K 36/62, A61K 36/67, A61K 36/714, A61K 36/736, A61K 36/75, A61K 36/80, A61K 36/81, A61K 36/882, A61K 36/8905, A61K 36/896, A61K 36/8965, A61K 36/906, A61K 36/9066, A61K 36/9068, A61K 9/14, A61K 9/20, A61P 1/00, A61P 1/04, A61P 1/06, A61P 1/08, A61P 1/14, A61P 25/00, A61P 25/04, A61P 29/00, A61P 29/02, A61P 3/02, A61P 31/00, A61P 31/04, A61P 33/00, A61P 33/06, A61P 33/08, A61P 43/00, A61P 7/04, A61P 7/06, A61P 7/10, C01B 17/00, C01B 33/42, C01G 13/00, C01G 49/00

Knowledge Known Since : 200 years

Bibliography : Bhērata Bhai³ajya Ratnēkara ,Basavarējyam,

Keyword(s)/Ingredient(s) : Zingiber officinale Roscoe(ēdraka, °u°h□)

Rhizome(prakanda),Gentiana kurroo Royle(trēyamē³a, trēyant□)

Root(m̄la),Azadirachta indica A. Juss.(nimba) Stem bark(kēn²atvak),Fagonia cretica Linn. / Alhagi pseudalhagi (Bieb.) Desv.(dhanvayēsa)

St.Bark,Leaf,Flower,Fruit&Root(Pancanga),Terminalia chebula Retz.(har□tak□)

Fruit(phala),Cyperus rotundus Linn. / Cyperus scariosus R. Br. / Cyperus

arundinaceum Baker(mustaka, ga²ad̄rvē) Rhizome(prakanda),Acorus calamus

Linn.(vacē) Rhizome(prakanda),Cedrus deodara (D.Don) G.Don(devadēru) Stem

bark(kēn²atvak),Solanum surattense Burm. F. Syn.: S. xanthocarpum Schrad. &

Wendl.(ka¼°akēr□ (°veta prajēti lak³ma³ē sthēnēpanna au³adhi))

St.Bark,Leaf,Flower,Fruit&Root(Pancanga),Pistacia integerrima J.L.Stewart ex

Brandis(karka°a°¼ag□) Gall(kō°ag²ha),Asparagus racemosus Willd.(°atēvar□,

medē-mahēmedē (sthēnēpanna au³adhi)) Root(m̄la),Fumaria vaillantii Loisel.

(parpa^oa) St.Bark,Leaf,Flower,Fruit&Root(Pancanga),Piper longum Linn.(pippal^o) Root(m|la),Citrullus colocynthis (Linn.) Schrad.(indrav^oeru^o) Root(m|la),Inula helenium Linn./ Inula racemosa Hook.(pu³/₄kara) Root(m|la),Hedychium spicatum Buch.- Ham.(^oa^o) Rhizome(prakanda),Marsdenia tenacissima Wight. & Arn. / Chonemorpha fragrans (Moon) Alston Syn. C. macrophylla (Roxb.) G. Don. (m|rv^e) Root(m|la),Piper longum Linn.(pippal^o) Fruit(phala),Curcuma longa(haridr^e) Rhizome(prakanda),Berberis aristata DC. / Berberis asiatica Roxb. / Berberis lycium Royle(d^eruharidr^e) Stem bark(k^en²atvak),Symplocos racemosa Roxb.(lodhra) Stem bark(k^en²atvak),Santalum album Linn.(candana (^oveta)) Heart wood(k^e³/₄hamajj^e),Nymphaea stellata Willd.(utpala (n^ola)) Flower(pu³/₄pa),Holarrhena antidysenterica (Roxb. ex Flem.) Wall. ex DC.(ku^oaja, indrayava) Stem bark(k^en²atvak),Holarrhena antidysenterica (Roxb. ex Flem.) Wall. ex DC.(ku^oaja, indrayava) Seed(b^oja/ phal^esthi),Glycyrrhiza glabra Linn.(ya³/₄imadhu, kl^otaka (sth^ene^opanna au³/₄adhi)) Root(m|la),Plumbago zeylanica Linn.(citraka) Root bark(m|latvak),Moringa pterygosperma C.F. Gaertn.(^oigru ^oveta (madhu ^oigru)) Seed(b^oja/ phal^esthi),Sida cordifolia Linn.(bal^e) Root(m|la),Aconitum heterophyllum Wall. ex Royle(ativi³/₄e) Rhizome(prakanda),Picrorhiza kurroa(ka^ouk^o, ku^oak^o) Rhizome(prakanda),Chlorophytum tuberosum Baker / Asparagus adscendens Roxb.(mu^oal^o ^oveta) Root(m|la),Prunus cerasoides D. Don(padmaka) Root(m|la),Trachyspermum ammi (Linn.) Spragne(yav^en^o) Fruit(phala),Desmodium gangeticum (Linn.) DC.(^oe^olapar^o) St.Bark,Leaf,Flower,Fruit&Root(Pancanga),Piper nigrum Linn.(marica) Fruit(phala),Tinospora cordifolia Miers(gu²/₂c^o) Stem(k^e'²a),Aegle marmelos Correa ex Roxb.(bilva) Stem bark(k^en²atvak),Coleus vettiveroides K.C. Jacob / Valeriana jatamansii Jones Syn.: V. wallichii DC.(hr^obera, b^elaka) Root(m|la),Cinnamomum tamala Nees(tejapatra, nalik^e (sth^ene^opanna au³/₄adhi)) Leaf(patra),Cinnamomum zeylanicum Blume(tvak) Stem bark(k^en²atvak),Phyllanthus emblica Linn. Syn.: Emblica officinalis Gaertn.(^emalak^o) Fruit(phala),Uraria picta (Jacq.) Desv. ex DC.(p^onipar^o) Root(m|la),Trichosanthes dioica Roxb.(pa^oola) Leaf(patra),Sulphur(Gandhaka) Purified (^ouddha),Mercury(p^erada) Purified (^ouddha),Iron(lauha) Calcined / Incinerated drug(Bhasma),Mica / Biotite(abhraka) Calcined / Incinerated drug(Bhasma),Realgar/Red Arsenic Sulphide(mana^oil^e) Calcined / Incinerated drug(Bhasma),Andrographis paniculata (Burm.) Nees / Swertia chirayita (Roxb. ex Flem.) Karst.(bh|nimba, k^elamegha) St.Bark,Leaf,Flower,Fruit&Root(Pancanga),

20.Rheum australe

1. RG/146 D^eim^edyac|r'am (02)

Useful in the Treatment of following Diseases : Abdominal lump(gulma),Piles / Ano

rectal mass / Haemorrhoids(ar^oa), Sprue / Malabsorption Syndrome (graha'ṁ), Acute diarrhoea(atiscera), Dysentery/Gastroenterocolitis(pravēhikē), Pleurodynia and intercostal neuralgia(pēṛ^o va^ola), Flatulence associated with constipation(ēnēha), Urinary disorders / Polyuria(Prameha / meha),

IPC Codes : A61K 36/899, A61K 125/00, A61K 129/00, A61K 131/00, A61K 135/00, A61K 36/00, A61K 36/185, A61K 36/23, A61K 36/235, A61K 36/38, A61K 36/54, A61K 36/67, A61K 36/906, A61K 36/9066, A61K 36/9068, A61K 9/14, A61P 1/00, A61P 1/04, A61P 1/06, A61P 1/08, A61P 1/10, A61P 1/12, A61P 1/14, A61P 1/16, A61P 13/00, A61P 13/02, A61P 29/00, A61P 31/00, A61P 7/04, A61P 7/12, A61P 9/14, C01D 3/04, C13D 1/00

Knowledge Known Since : 500 years

Bibliography : Bhārata Bhaṛṭajya Ratnēkara ,Gadanigraha^a,

Keyword(s)/Ingredient(s) : Punica granatum Linn.(dē²ima) Seed(bōja/phalēsthi), Zingiber officinale Roscoe(ēdraka, ^ou^oh^o) Rhizome(prakanda), Piper longum Linn.(pippal^o) Fruit(phala), Piper cubeba Linn. f.(ka-kola) Fruit(phala), Trachyspermum ammi (Linn.) Spragne(yavēn^o) Fruit(phala), Trachyspermum roxburghianum(DC.) Craib(ajamodē) Fruit(phala), Foeniculum vulgare Mill.(madhurikē, mi^oreyē) Fruit(phala), Garcinia pedunculata Roxb. / Rheum australe D. Don Syn.: R. emodi Wall. ex Meissn.(amlavetasa) Fruit(phala), Garcinia indica Chois.(v^ok^oēmla) Fruit(phala), Piper retrofractum Vahl Syn.: P. chaba Hunter(cavya) Stem(kē^oa), Terminalia chebula Retz.(har^otak^o) Fruit(phala), Black Salt/Sodium sulphate mixed with sodium chloride(sauvarcala lava^oa) , Coriandrum sativum Linn.(dhēnyaka) Fruit(phala), Elettaria cardamomum (Linn.) Maton(s^ok^omailē) Fruit(phala), Cinnamomum zeylanicum Blume(tvak) Stem bark(kēn^oatvak), Piper longum Linn.(pippal^o) Root(m^ola), Piper nigrum Linn.(marica) Fruit(phala), Cinnamomum tamala Nees(tejapatra, nalikē (sthēnēpanna au^oadhi)) Leaf(patra), Bamboo manna / Curcuma angustifolia Roxb.(va^oalocana) , A product of sugarcane(sitē) ,

21. Nymphaea rubra

1. RG/178 Drēk^oēdic^or^oam (10)

Useful in the Treatment of following Diseases : Burning sensation(dēha), Disease with Pitta predominance(pittavikēra), Vomiting / Emesis

(chardi), Syncope/Fainting(m^orche), Anorexia (arocaka), Menorrhagia / Metrorrhagia (rakta pradara / as^ogdara), Leucorrhoea(^ovetapradara), Anaemia / Hyperbilirubinaemia

(pē^ou), Giddiness/Vertigo(bhrama), Jaundice(kēmalē), Tuberculosis / Pthisis(rējayak^omē), Alcoholism(madētyaya), Bronchial asthma(tamaka ^ovēsa), Polydipsia / Excessive thirst (t^oē), Haemorrhagic diseases (raktapitta),

IPC Codes : A61K 36/899, A61K 125/00, A61K 131/00, A61K 133/00, A61K 135/00, A61K 31/70, A61K 36/185, A61K 36/23, A61K 36/38, A61K 36/47, A61K 36/484, A61K 36/53, A61K 36/62, A61K 36/67, A61K 36/84, A61K 36/87, A61K 36/889, A61K 36/8905, A61K 36/9066,

