PREFACE.

The publication of the present volume has well-nigh brought to close that part of the Rasa-Vidya (or the science of the minerals in all their aspects, viz, medicinal, alchemical, and industrial) which should be considered to be an introduction to the study of a pharmacopæa of drugs prepared mainly from minerals—a pharmacopæa of a colossal magnitude, prepared, in pre-historic times, by the ancient Indians Much of the materials, originally intended to be dealt with in the first three volumes, are left out for treatment in a subsequent volume. The fourth and a few of the succeeding volumes would be mainly devoted to the study of recipes most of whom would be found to be astonishingly infallible

It is not possible for me to make my readers realise the nature of the labour which I, a busy medical practitioner, have been undergoing in carrying on a prolonged research on a highly abstruse and almost forgotten science, without any assistance, tinancial or otherwise, either from the state or from any body else.

The sympathy with which the lovers of culture all over the world have been viewing the present publication has been the main force which has hitherto enabled me to sustain my energy and to hope for a completion of the work put in hand.

It is gratifying to note that my works are already

RASA-JALA-NIDHI

OR

OCEAN OF INDIAN CHEMISTRY, MEDICINE & ALCHEMY.

VOL. III

COMPILED IN SANSKRIT

BY

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Printed by K. C. Neogi, Nababibhakar Press, 91-2, Machuabaxar Street, Calcutta being studied by almost all the eminent Ayurvedic physicians all over India, but the majority of the students of Ayurveda in the colleges have not yet had an opportunity to acquaint themselves with the contents of these books (which cover the greater and the better part of Ayurveda) much of which was hitherto unknown to the world. I know that there is a paucity of teachers who can efficiently teach this the most important branch of Ayurvedic studies, but I am confident that a gradual spread of the knowledge contained in the present publication will go a great way in removing this paucity at a near future.

I am thankful to Prof Berthold Laufer of the Field Museum of National History, Chikago, and some other scholars for their suggestion to adopt the commonly accepted practice of transliteration of Sanskrit names into Roman characters. I have decided to act up to their suggestion from Vol. IV, which has already been sent to the press.

There are scholars who are more interested in the history of a science than in the science itself. For the satisfaction of such scholars, I have dealt briefly with the history of Hindu chemistry in a chapter in my newly published work, entitled "Indian Civilization and its Antiquity" (Price Rs. 2-India).

I cannot conclude the present volume without a reference to the encouragement which I have received from men of eminence connected with the spread of Ayurvedic education in this country, and especially from the Hon'ble Mr. Justice Manmatha Nath polerji of the Calcutta High Court (President,

Astanga Ayurved College, Calcutta) and from the late Mr. Justice Gokarna Nath Misra of Lucknow.

I am also thankful to Mr. H. E. Stapleton, M.A., I.E S., Director of Public Instruction, Bengal, for his kindly taking an interest in my publications.

I am much obliged to Professors Satkari Mookerji, MA, and Kshitish Chandra Chatterji, M.A., (both belonging to the Department of Post Graduate classes in Sanskrit, Calcutta University) for the help they have ungrudgingly rendered to me in correcting the proof sheets and for several suggestions received from them.

The keenness of interest with which the publication of the present volume has all along been watched by Kaviraj Jatindranath Ghosal Kaviratna, Kaviraj Birindra Mohun Chand Ray BA., Sj. Debi Charan Ghosal, and some other pupils of mine needs a special mention.

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The 27th December, 1929.

BHUDEB MOOKERJI.

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रुंकस्थे तव चरगों में काम्ये नित्यं मिय चिरतुष्टे। लीलाशीले तव भतेजो॥ तु प्रीते निख्लिवरे ये॥

(२)

बा । सित तुदते ं बधातीशे चिरकांचार । पृथ्वीकारास्थित तशीर्षे । ।शीर्धारा तव विनिषिश्च ॥

(३)

विश्वे विश्वे षि ग्री प्रोद्दगीतास्तु श्रवग्रापिपासा । धीराणां शाम्य र्घः ुं प्रवितर क्तिम् ॥ (8)

जीवानां त्वं भवलयदात्री देवानां चिरशरणं हि। मायातीते मम हृदि तिष्ठ ं नातस्त्रिभुवनधात्रि॥

प्रथमोऽध्यायः।

लौहम्।

नामानि ।

लौहोऽस्त्री तीच पिगडमयः क कृषिलोहं िलात्मजमायस पि कथ्यते॥

गुणाः ।

(१)

मधुरं वरं तिक्तं लोहं शीतं सरं ग्रह।
हचं च्छुष्टं लेखनं वा ंहि तत्॥
ंपित्तं गरं शूलं शोथ ध्री ुः।
मेदोमेहिकिमीन् हन्ति सेवनात् तद् यथाविधि॥
(२)

आयुः प्रदाता बलवीर्यकर्त्ता रोगापहर्त्ता मदनस्यधाता। यःस नं नहि किश्चिदस्ति र

ाम्॥

Chapter I.

LAUHA (IRON)

Properties of lauha

(1)

Iron is sweet, astringent, and bitter in taste; cold, laxative; heavy; coarse; preventer of senile-decay; improver of eye sight; reducer of fat; and increaser of a little of vayu (wind) in the system. It pacifies an excess of kapha (phlegm) and pittam (animal heat); and cures toxin, colic, swelling of the body, piles, spleen, anemæa, obesity, spermatorrhæa and worms.

(2)

Iron increases strength and longevity. It cures diseases and is an aphrodisiac It is one of the best remedies for senility.

लौहस्य विकदोषाः।

गुरुता क्लेदः प्रमलं दाहकारिता।
शमदोषो मलग्रहो दोषाः तु॥
शोधितव्यमतस्तद्धि मारणीयं यथाविधि।
अशोधितममारितं लोहं ज्ञेयं महाविषम्॥

Natural blemishes of iron

The following are the seven blemishes of iron --heaviness, hardness, mixture with foreign matters,

power of causing hysteria, power of causing inflammation, evil characteristics of stone, and power of causing constipation.

दुष्टलौहसेवनस्य फलम् ।

षगडत्वकुष्टामयमृत्युदं भवेद हृद्रोगशृली कुरुतेऽश्मरीश्च। नानारुजानाश्च तथा प्रकोपं करोति हृज्ञास मवैधलीहम्॥

Evil effects of taking impure iron.

Iron, not properly purified and incinerated, gives rise to the following:—impotency, leprosy, death, heart disease, colic, stone disease, hiccough, and even augmentation of many of the diseases the patient has already been suffering from.

लौहस्य प्रकाराः,।

सामान्याद द्विग्रणं कोश्वं कालिङ्गोष्ठगुणःस्मृतः। कालिङ्गाद दश्धा भद्रं भद्राद्व वज्रं सहस्रधा॥ वज्राच्छतग्रणं पाणिड्य नीरवं दश्भिगुणैः। तस्मात् सहस्रग्रणितमयः कान्तं महाग्रणम्॥

. Varieties of iron.

Iron is of the following different kinds:

शाठोऽयं रसेन्द्रचिन्तामणेस्तथा रामराजीयादुद्धृतः ॥

(a) Samanya or ordinary, (b) Krauncha (c) Kalinga (d) Bhadra (e) Vajra (f) Pandi (g) Niraba, and (h) Kanta.

Of these, (b) is twice as efficacious as (a); (c) is eight times as efficacious as (a); (d) is ten times as efficacious as (c); (e) is thousand times as efficacious as (d); (f) is hundred times as efficacious as (e); (g) is ten times as efficacious as (f); and (h) is thousand times as efficacious as (g).

(?)

मुगडं तीच्गां तथा कान्तं त्रिविधं जौहमुच्यते । मुगडात् तीच्गां ततः कान्तं प्रशस्तं ज्ञायते बुधैः ॥

It is a matter of wonder and great significance that the ancient Hindus were able, long, long before the birth of Christ, to forge such huge pillars and beams, and to prepare a kind of iron the like of which modern scientists have not yet been able to produce. It is a sheer want of encouragement that accounts for the present state of deplorable forgetfulness in this direction.

^{*} This classification was in vogue at the time of King Rama Chandra, The present day Indians are unable to identify these the hero of Ramayana different kinds of iron. Such ancient chemists as Nityanatha, etc. were also ignorant of this classification This is due to an incredibly great decline in our knowledge of industrial chemistry since the time of the great Rama Chandra. That the ancient Indians attained a high degree of scientific knowledge is evident from the famous iron pillar of Delhi, which, according to the inscription, was erected as a monument by King Chandra who was most probably the founder of the Chandra dynasty (wrongly translated as "Lunar Dynasty") This huge pillar has been exposed, for several thousands of years, to the roughness and extreme variations of a tropical climate, but no rust has grown on its amazingly smooth and glossy surface The same remarks apply to the cannons Visnupur (Bengal) and to the iron beams used in the famous temple (now in ruins) of Konarka in Orissa

(2)

Iron is of three different kinds, viz. (a) Munda likshna, and (c) Kanta The second is better the first and the third is better than the second

(क) मुगडम् (पृतिलौहम्)।

मृदु कुएठं कड़ारश्च त्रिविधं मुगडमुच्यते । द्रुतद्रावमविस्फोटं चिक्कगां मृदु तच्छुभम् ॥ हतं यत् प्रसरेद्द दुः त् तत् कुग्ठं मध्यमं स्मृत यद्धतं भज्यते कृष्णां हीनं कड़ारकम् ॥

(a) Munda or ordinary iron

Munda or ordinary iron is of three different ki viz mridu (soft), kuntha (obdurate), and kai (brittle)

Mridu or soft is that which melts quickly and a smooth and glossy surface.

Kuntha or obdurate is that which can be expa ed with much difficulty by hammering

Karara or brittle iron is that which breaks eas when hammered, and presents black surfaces w broken

Of these three, the first is comparatively comendable, the second is of moderate efficacy, and third is the least efficacious for medicinal purposes

श्रेष्टमुण्डस्य गुणाः।

मुगडं परं मृदुलकं कफवातशृल मृलाममेहगदकामलपागडुहारि। गुल्मामवातजठरात्तिंहरं प्रदीपि शोफापहं रुधिरकृत् खलु कोष्टशोधि॥

Properties of excellent Munda iron

Soft iron of superior qualities (duly incinerated) is efficacious in the following diseases —excess of kapha (phlegm), colic due to excess of vayu (wind), piles, dysentery, spermatorrhæa, jaundice, anemia, gulma, rheumatism, diseases affecting the belly, and dropsy. It increases blood, and appetite, and purifies the stomach

(ख) तीच्णम्।

खरं सारञ्च हृन्नालं तारापदृञ्च वज्नकम् । काललोहाभिधानञ्च षड् विधं तीच्गामुच्यते ॥

(b) Tikshna iron

There are six different kinds of tikshna iron, viz. (1) khara (2) sara, (3) hrinnala (4) tarapatta (5) bajraka and (6) kala *

^{*} Import of cheaper iron products from foreign countries has led to the total ruin of iron industry of an indigenous character in India. The last generation of iron smiths who were acquainted with the different kinds of iron, as described here, became totally extinct about 50 years back. The classification, as given here, has therefore nothing but a historical interest for us.

(4) Tarapatta iron.

Tarapatta iron is obtained from iron ores by class of smiths who are specialists in the science ores. This iron is black, smooth, glazy, and has ver fine pogara (carved lines) on its surface. This is prepared in the shape of a spoon (minus the handle). It is a kind of iron which never rusts, even if it is exposed to the sun, rains, and wind.

(५) वजुलौहम्।

पोगरैर्वज्रसंकाशैः सूच्मरेखेश्च सान्द्रकैः। निचितं श्यामलाङ्गञ्च वज्रकं तत् प्रकीर्त्ततम्॥

(5) Bajra iron.

Bajra iron is that which has got on its surface plenty of fine and deep-seated lines—straight and carved (pogara)— of the appearance of an electric flash (bajra), and is of a glossy black colour.

(६) काललौहम्।

नीलकृष्णप्रमं न्द्रं मस्त्रणं ग्रह भासुरम् । लौह्घातेऽप्यभङ्गात्मधारं का सं म् ॥

^{*} This is most probably the iron out of which the wonderful iron pillar of Delhi, the iron beams in the ruins of konarka temple, the cannons in visnupur etc were prepared. The art of preparing such iron is now hopelessly lost

(6) ala or Black iron.

Kala iron is heavy and of a deep blue-black colour Its surface is glossy, heavy, and bright. It can not be broken inte pieces by being hammered upon by means of another piece of iron

तीक्ष्णळोहस्य गुणाः।

(१)

रुचं स्यात् खरलौहकं सुमधुरं पाकेऽथ वोर्घ्यहिमं तिक्तोष्णं कफि कुष्टजठरम्नीहामपाणुडुर्त्तिनुत्।

ः शूलयकृद्गदच्चयजरामेहामवातापहं दीतं चातिरसायनं करं दुर्णामदा पहम्॥ गौत् परं सर्व्वमेकै माद् गुणोत्तरम्॥

Properties of tikshna iron.

(1)

Khara iron is coarse and warm in touch, bitter in taste, but it turns sweet, when digested in the stomach. It produces a cooling effect upon the system. It is efficacious in the following diseases —excess of kapha and pittam, leprosy, udara-roga, enlargement of the spleen, mucus, jaundice, colic, derangement of the liver, wasting diseases, senility, spermatorrhæa, inflammation, and rheumatism. It increases strength and appetite and prevents and cures senile decay, if taken in the manner prescribed hereafter. Each of the varieties of iron named after "khara" is superior in quality to that which precedes it.

(२)

लौहं साराह्वयं हन्यादु यहणीमतिसारकम् । अर्द्ध सर्व्वाङ्गजं वातं शूलञ्ज परिणामजम् । इद्धिश्च पीनसं पित्तं श्वासं सं व्यपोहति ॥

(2)

Sara iron cures the following diseases, if taken in the prescribed way __diarrhœa, both chronic and acute, paralysis affecting the whole or half of the body, colic felt at the time of digesting food, nausea, pinasa, diseases due to an excess of pittam, asthma and cough

(ग) कान्तलौहम्।

तस्य लक्षणम्।

(१)

पात्रे यस्मिन् रित जले विन्दुर्नि कि निम्य स्वाति च तथा तिक्ततां निम्य स्वाः। पाके दुग्धं व्रजति शिखराकारतां नैति भूमिं कृष्णाङ्ग स्यात् सजलचणकः कान् गैहं तदुक्तम्॥

(c) Kanta iron (an oxide of iron having the magnetic power of attracting iron)

न लिप्तमित्यस्य स्थले े इत्येतत् पाठान्तरं दृश्यते ।

^{* *} निम्बकल्कः इत्येतस्य स्थले नि : इत्येतत् न्तरं इत्यते ।

Its characteristics

(1)

Kanta iron is of such a nature that a drop of oil thrown into water contained in a pot of this iron does not spread over the surface of the water, neither does the oil stick to the inner surface of the pot Hingu (asafætida) kept in a pot of this iron loses its smell in course of time. Bark of nimba tree (which is very bitter in taste), pestled with water, loses its bitterness, if kept for some time in a pot of this iron. Milk, boiled in a pot of this iron, may swell up, but will not overflow the borders of the pot, and will not flow into the ground

(२)

कान्तं मृदुतरं इ हचात्म तिमिराकरम्। स्ट्राहुर्यको भवेन् निम्बकल्को रात्रिनिवे तः। पानीयं कथितं च्य्यित्द्र्यत् हिंगुगन्धसमं भवेत्॥ कान्तं तदुत्तमं रूप्येनावर्त्ततं मिलेत्। सर्वरोगहरं ह्यं तत् सर्व्वकुष्टहरं परम्॥

(2)

Kanta iron is softer than silver It is coarse and black in colour. Water boiled in a pot of kanta iron acquires the smell of hingu (asafætida) Kanta iron of superior quality is generally found to be in the form of ores covered with silver. Such a kanta iron (i.e. kanta iron found in ores rolled in silver) can

way. including all sorts of leprosy

(३)

यत् पात्राच्युषिते तोये तैलबिन्दु र्न 'ति। नारेणावर्त्तते यत् गैहमिति स्मृतम्॥

(3)

Kanta iron is that which is found to be mixed with silver

कान्तळीहस्य भेदाः।

श्रामकं चुम्बकं चैव कं द्रावकं तथा।
एवं चतुर्विधं कान्तं रोम नतञ्ज प म्॥
एकद्वित्रिचतुरपञ्ज सर्व्वतोमुखमेव तत्।
पीतं कृष्णं त रक्तं त्रिवर्णं त् क् पृथक्॥
म्पर्शविधि भवेत् पीतं कृष्णं श्रेष्ठं रसायः।
रक्तवर्णं तथा वाऽपि रसबन्धे प्रशस्यते॥
श्रामयेक्षौ जातं तु नतं
प्रामयेक्षौ जातं तु कं त ॥

 [&]quot;कान्तलौहमिति" स्मृतम्
 इत्येतत् पाठान्तरं दृश्यते ।

साचाद यद द्रावयेल् लोहं तत् कान्तं द्रावकं भवेत्। तद् रोमकान्तं स्फुटिताद् यतो रोक्केंद्ध्यके भवेत्॥ श्रामकं तु कनिष्ठं स्याच् चुम्बकं मध्यमं तथा। उत्तमं कर्षकं चैव द्रावकम् चोत्तमोत्तमम्॥ कनिष्ठं स्यादेकमुखं मध्यं द्वित्रमुखं भवेत्। चतुस्पञ्चमुखं श्रेष्टमुत्तमं त्र्व्वतोमुखम्॥

Varieties of kanta iron

Kanta iron is of five different kinds, viz. bhramaka, chumbaka, karshaka, dravaka, and romakanta. They may have one, two, three, four, five or more than five mouths or points. They may be of three different colours, viz yellow, black, and red. Of these the yellow variety (populary called the philosopher's stone) can transform base metals by mere touch. The black variety is commendable in medicines and the red variety in medicines as well as in the act of solidification of mercury.

Bhramaka iron is that which makes a piece of ordinary iron revolve round it. Chumbaka kanta (load stone) is that which can eling to pieces of ordinary iron. Karshaka kanta is that which can attract to it pieces of ordinary iron. Dravaka kanta is that at the touch of which ordinary iron melts (without any heat being applied). Roma-kanta is that which causes the growth of fresh hair at that part of the skin which is lightly pierced through by it

^{*} It is an one found in nature and is therefore to be of tinguished from a kind of Philosopher's stone that can be prepared vide page 237, Vol I i

Of these four varieties, Bhramaka is the least efficacious Chumbaka is superior to Bhramaka Karshaka is superior to Chumbaka, and Dravaka is the most efficacious of all these varieties

The kanta iron which has got only one mouth (or magnetic point) is the least efficacious; that with two or three mouths is of moderate efficacy; and that with four or five mouths is excellent. The kanta iron which has got several mouths is the best of all

कादीनां विशेषगुणाः।

भ्रा ु कं व्याधिनाशे अर्व्ह्यते। रसे रसायने चैव कं वकं हितम्॥ मदो जः सूतः ंकुश्मुच्यते। निगर्भाद् प्रहीतव्यं तत् ेन धीमता। मारुतातपविचित्तं संशयः॥

Special features of Bhramka, etc

Kanta iron of the name of Bhramaka and Chumbaka are commendable for use in medicines intended for cure of diseases. Karshaka and Dravaka are commendable for use in mercurial operations and in medicines intended for cure of diseases as well as for prevention and cure of senile decay. Mercury can be compared to a wild elephant, whereas kanta iron to a goad which serves to control its wildness.

Kanta iron is to be obtained direct from mines The kanta iron which has been kept exposed to sun and air should be avoided in medicines.

कान्तलीहस्य गुणाः।

कान्तायोऽतिरसायनोत्तरतरं खस्थे चिरायुःप्रदं स्निग्धं मेहहरं त्रिदोषशमनं शूलाममृलापहम् । गुल्मप्नीहयकृत्च्यामयहरं पागडूदरव्याधिनुत् तिक्तोष्णं हिमवीर्थ्यकं किमपरं योगेन सर्व्वार्त्ति नुत्॥

Properties of kanta,

Kanta iron is bitter in taste, warm in touch, but produces a cooling effect in the system. It is a good rasayanam (i.e a medicine which, if used in the prescribed manner, can prevent and cure diseases and senility). It imparts long life to a healthy man (who takes it regularly). It is soothing. If taken with suitable anupanam, it can cure all the diseases, especially, spermatorrhæa, colic, dysentery, excess of the three doshas, piles, fistula, gulma, enlargement of the spleen and liver, phthisis, jaundice, and udara-roga

लौहस्य शोधनम् ।*

पत्तलीकृतपत्रानि लो उस्थाओं प्रतापयेत्। निषञ्चेत् तप्ततप्तानि तेले तक् च कांजिके॥ गोमूत्रे च कुलत्थानां कषाये च त्रिधा त्रिधा। एवं लोहस्य पत्राणां विशुद्धिः संप्रजायते॥

Purification of iron **

शोधनार्थं पत्तलीकृतं लीहपत्रमेच सर्व्यदा व्यवहार्व्यम् ।

^{• •} Iron is first of all, to be he sted and hammend into their leaves before it is purified

First process

See Second process, page 242, vol II)

द्वितीयोविधिः।

शश्चतजसंमिश्रं त्रिवारं परितापितम् । मुगडादिसकलं लोहं सर्वदोषान् विमुश्चति ॥

Second process

All sorts of iron leaves are purified (medicinally, of course), if they are heated three times and immersand such time in the blood of hare

तृतीयोविधिः।

तप्तः चाराम्लसंलिप्तः शरक्तेन वापितम्। कान्तलीहं भवेच्छूद्धः सर्वदोषविवर्जितः॥

Third process.

Kanta iron is purified, if it is heated after having then smeared with ksharas and amlas, and then imported in the blood of hare.

चतुर्थोविधिः।

काध्यमष्टगुणे तोये त्रिफला षोड़शं पलम्।
तत्काथे पादशेषे तु लौहस्य प अकम्॥
इत्वा पत्राणि नि सप्तवारं निषेचयेत्।
एवं प्रक्षीयरे दोषो गिरिजो लौह वः॥

प्रथमोऽध्यायः।

Fourth process

Sixteen palas of triphala are to be boiled with 128 palas of water until it is reduced to 32 palas. Five palas of iron leaves are to be heated seven times and immersed each time into this water. This results in the purification of the iron

पञ्चमोविधिः।

सामुद्रलवणोपेतं ं निर्वापितं खलु । त्रि थिते नूनं गिरिदोषमयरस्केत् ॥

Fifth process.

Iron leaf is purified, if it is coated with a dense solution of sea salt, then heated, and cooled next by immersion into a decoction of triphala

षष्ठसप्तमौ विधी।

चि फलदल थादयो दोषमुदस्यति। यद्वा फलत्रयोपेतं गोमूत्रे कथितं च्याम्॥

Sixth and Seventh processes

Iron is purified, if it is boiled with decoction of leaves or fruits of tamarind.

It may also be purified, if it is boiled for sometime with decoction of triphala, prepared with cow's urine (and not water).

अष्टमोविधिः।

द्वितीयखण्डे २४२ पृष्ठे तृतीयीविधि ईष्ट्य: ।

Eighth process.

(See Process No. 3, page 242, Vol, II)

नवमोविधिः।

लवनानि चारौ शोभाञ्जनरसे चिपेत्। अद्याद्याद्वितेनादौ दिनं घर्मे विभावयेत्॥ तद् द्रवेदौलिकायन्त्रे दिवसं पाचयेत् धीः। कान्तपाषाणशुद्धौ हि तदेव मारयेत् ः॥

NINTH PROCESS.

A solution is to be made of the five salts, the two ksharas, the juice of shobhanjana, and the amlavarga.* This is to be exposed to the heat of the sun for one day. Kanta iron is purified, if it is boiled for one day by means of a Dola-Jantram containing this solution

लौहस्य मारणम्।

सर्व्वाषां धातुकल्पानां लौहकल्पं प्रशस्यते । तस्मात् ० े न लौहमादौ विमारयेत्॥

^{*} For amla varga, see page 301, Vol I.

Details of salts and ksharas will be given later in the present volume

नायः पचेत् पश्चपलादर्वागुर्द्धः त्रयोदशात्। श्रादौ मन्त्रस्ततः कम्मं कर्त्तब्यं मन्त्र उच्यते॥ श्रों मृतोद्भवाय खाहेत्यनेन लौहमारणम्॥

ओं अमृतोद्भवोद्भवाय स्वाहा । इति मईनमन्त्रः । ओं अमृतोद्भवाय हं स्वाहा । ओं अमृते हुं फट् । ओं वज्रपानये महायक्षा घिपतये हुं । सुरासुर यक्षमहाविद्यावलाय स्वाहा । ओं अमृते हुं इति विलद्दानमन्त्रः ।

Incineration of Iron

Medicines, in which iron is the leading ingredient, are better than those in which any other of the remaining metals (except mercury) forms the main ingredient. Iron is therefore to be incinerated very carefully.

Iron is not to be incinerated in quantities less than five palas and more than thirteen palas at a time. The following mantra (sacred text) is to be uttered just before the commencement of the process, leading to the incineration of iron —

" Om amritodbhavaya Swāhā" etc.

लौहमारणस्य प्रथमोविधिः।

स्तकाद्दिग्रणं गन्धं दत्त्वा र्याच्च कज्ज तम् । द्वयोः समं लौहचूर्णं मद्येत् काद्रवैः ॥ यामरुग्मं ःपिग्डं कृत् त य पात्रके । े भृत्वा रुवू पत्रैराच्छादयेद वुधः ॥ यामद्रयाद् भवेदुष्णां धान्यराशों न्यसेत् ततः। दच्चोपरि शरावं तु त्रिदिनान्ते समुद्धरेत्। पिष्ट्वा च गालयेद् व देवं वारितरं भवेत्॥ कान्तं तीद्मणश्च मुगडश्च निरुत्थं जायते ध्रुवम्। स्वर्णादीन् मारयेदेवं चूर्णं कृत्वा च लौहवत्॥ सत्योऽनुभूतो योगीन्द्रैः क्रमोऽयं लोहमारणे। कथितं रामराजेन साकेतेशेन धीमता॥ कौतृह्लिधिया येन शिचिता दग्डके पुरा। सिद्धयोगिमहर्षिभ्यो विदेचषा रससंज्ञका॥

Incineration of iron.

First process

See fourth process, page 247, Vol II.

द्वितीयोविधिः।

- तस्तूतस्य पादेन प्रलिप्तानि पुटानले । पचेत् तुल्येन वा ताप्यगन्धाश्महरतेजसा ॥

Second process.

Iron is incinerated by being rubbed with one fourth its quantity of incinerated mercury, and subjected to putam. It may also be incinerated, if rubbed with an equal quantity of swarnamakshika, gandhaka, and mercury, all combined, and then subjected to putam

तृतीयोविधिः।

तीक्णलोहस्य ानि निर्दलानि दृढेऽनले।

ध्मा चिपेज्जले सद्यः पाषानोलुखलोदरे॥

खगडयेद्दगाइनिर्घातैः स्थूलया लोहपारया।

तन्मध्ये स्थूलखगडानि रुद्ध्या मल्लद्वयान्तरे॥

धमात्वा चिप्त्वा जले सम्यक् पूर्व्वत् कगडयेत् उ

ूगं सूतगन्धाभ्यां पुटेद्विंशित । रकम्॥

ूर्णं सूतगन्धाभ्यां पुटेद्विंशित । एवे पुटे विधातव्यं पेषनं दृढ़वत्तरम् । एवं भ ीकृतं लौहं तत्तद्रोगेषु योजयेत्॥

Third process.

Tikshna iron is to be hammered into fine sheets, devoid of layers. These are to be heated red hot and immersed into water. They are then to be reduced to powder by means of an iron bar in a stone mortar. Portions of the sheets, too hard to be powdered, are to be confined within two earthen basins, subjected to strong heat, and then immersed into water. When cooled, they are to be reduced to powder, being hammered in the aforesaid way. The powder, thus obtained, is to be rubbed with mercury and sulphur, and subjected to putam for twenty times. Rubbing very steadily is to be resorted to, previous to each act of putam (Juice of kanya or lemon juice or kanji may be used for the purpose of rubbing in this case)

चतुर्थोविधिः।

हिंगुलस्य पलान् पश्च नारीस्तन्येन े येत्।
तेन लौहस्य पत्रानि लेपयेत् पञ्चकम् ॥
रुद्धा गजपुटे पचेत् कषा ैः पुनः।
जम्बीरैरारणाले र्वा विंश्रत्यंशेन हिंगुलम् ॥
पिष्ट्रा रुद्धा पचेल्लौहं तद्द्ववैः पा ेत् पुनः।
चत्वारिंशत् पुटैरेवं न्तं तीच्णं च मुगडकम्।
म्रियते नात्र सन्देहो दत्त्वा दत्ते हिंगुलम् ॥
म्रथ पूर्व्वोदितं तीच्णं वसुभल्ल सयोः।
पुटितं पत्रतोयेन त्रिंशद्वारैः ः।
शोणितं जायते भस्म कृतसिन्दूरविश्रमम् ॥
Fourth process.

Twenty tolas of fine iron sheets are to be smeared with an equal quantity of hingula, previously rubbed with human milk, and then subjected to gajaputam. The iron is then to be subjected to forty more acts of putam, previously rubbed each time with one tola of hingulam mixed with the following alternately.—(1) decoction of triphala and (2) Iemon juice or aranala. The iron, thus incinerated, is again to be subjected to thirty more acts of putam, having been rubbed each time with one tola of hingula mixed with the juice of white punarnava and basaka. The iron thus grows as red as red vermilion.

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प्रथमोऽध्यायः।

पञ्चमोविधिः।

त्र्रहिमाराहिदमनीव सावजूलतार्जुनैः । ह्रीस्तन्ये हिंग्रलेनायः पचेन्निप्त्वा पुटेऽनले ॥

Fifth process.

Iron sheets are reduced to ashes, if they are subjected to putam, after having been smeared with hingula, rubbed with human milk, and the juice of the following.—ahimara, ahidamani, basaka, asthisanghara, and arjuna

षष्ठोविधिः।

जम्बीररससंयुक्ते दरदे तप्तमायसम् । बहुवारं विनिचिप्तं म्रियते नात्र संश्यः ।

Sixth process

Iron is incinerated, if it is heated red hot and then immersed for several times in a solution made of lemon juice, salt, and cinnabar.

सप्तमोविधिः ।

शुद्धं लोहं विचूर्णितं तदनु गोतोये विभाव्यं दिने। रात्रो चैव पुटाश्च विंशतिमिताः शरावसंपुटे शुभे॥ एवं वे त्रिफलाजलस्य कथितविधिना पष्टि पुटाः। कन्याया रसभावनाश्च कथिताश्चाष्टौ च वैद्यौः पुटाः॥ वजार्कहिलिनींगुदीद्धिकाद्धीगुंजातुरंगघन-निर्गुंडीगरुड़ीकुठेरकन क्लिकमत्स्या ।-हेमहंसपदी ।मृतलताभुंगेन्द्ररसैदिने । रात्रौ तद्रसेश्च पृथक् पृथगहोससे व भावाः पुटाः ॥ राजी थुतं सुखल्वकतलेपिष्ट्रा दिनैकं दृहम् । भावाश्चे वं पुटाश्च सप्त कथिताः सर्वेश्च वैद्याधिपैः ॥ पश्चाद्भावपुटाश्च पंच सततं पंचामृतानां पुनस्तचूर्णं दशांशदरद्युतं मद्यं च चीरे स्नियाम् ॥॥

गोतुग्धे च दिवा गोपि ं तं पिष्ट्वा च वाः।
पुटेत् पश्चादर्ज्ञ सुपारदेन शुचिना गंधेन सैः॥
तच्च्णं परिमद्दे येद दृदतरं संपाचयेत् संपुटे
पश्चात् के ं शुचिरसै तिशः पाचयेत्॥
पश्चात् कज्ज्वलीसिन्नमं तरं शुद्धं च लौहं
भवेत्।

एवं प्रोक्तं लैः परिहतं तस्त्रोह भम्॥

Seventh process

Purified and powdered iron is to be subjected to bhavanas with cow's urine in day time and heated by putam at night This process is to be performed

^{*} दिथ दुग्धं घृतञ्ज्ञेव किंगुतं मधु । पञ्चामृतमिदं प्रोक्तं विधेयं शुभ किंगु॥

for twenty times. The iron is then to be treated similarly for sixty times with the decoction of triphala, and with the juice of kanya for eight times. This is then to be subjected to bhavana for seven times in day time and as many times at corresponding nights, with the juice of each of the following plants, and subjected to heat by putam after each act of bhavana — Bajra, arka, halini, ingudi, haridra, daruharidra, gunja, ashwagandha, nagaramustha, nirgundi, patala-garuri, bana-tulashi, dhattura, chitraka, mat-yakshi, red hansapadi, jatamamsi, amrita-lata (a kind of guduchi growing in the amarkantaka forest), bhringaraja, and indra-baruni.

The iron is thus to be rubbed steadily for one raji and butter-milk and heated by day with This process is to be performed for seven The iron is then to be rubbed with each of the five things known by the name of panchamritam (viz. curd, milk, ghee, honey, and sugar), and subjected to putam each time. The iron is then to be rubbed with human milk for sometime, and with cow's milk for three days at a stretch, and then heated by putam. The product is then to be mixed with half its quantity of purified mercury and the same quantity of purified sulphur, and then rubbed with the juice of kanya to be heated by putam. Next the iron is to be rubbed with the juice of kanya only, for three times, and heated by putam every time. The ashes, thus prepared, may then be rubbed with the juice or decoction of bala only, and used according to requirements.

अष्टमोविधिः।

तीच्णदलोद्धतं सूच्मरजश्च त्रिफ लैः। पिष्ट्वा दत्त्वौदनं किंचि किंकां प्रविधाय च॥ शोधाधादाऽति न प्रपचेत् पश्चभिः पुटैः। रक्तवर्णं हि तद्धस्म योजनीरं य यथम्॥

Eighth process

Tikshna iron, finely powdered, is to be rubbed with decoction of triphala and a little of powdered rice or wheat, and made into small cakes which are to be dried and subjected to putam. Performance of this process for five times leads to the reduction of iron to red-coloured ashes

नवमोविधिः।

मत् चीगन्धवाह्नीकैर्लकुचद्रवपेषितः।
विदि य स ं लौहं मत्साद्धाद्धिहिल्कपेषितम्॥
भक्षाभ्यां सूदृढ़ं ध्मात्वा त्रिशृलीनि विध ।
थोद्धृत्य चिपेत् काथे त्रैफले गोज तमके॥
तस्मादाहृत्य सं तमादार लौहकम्।
पुनश्च पूर्ववत् ध्मात्वा मारयेदिललायसः॥
महियत्वा ततोगन्धगुद्धिहिस्त्वह्नोदकैः।
पुटैश्चिंशत्संख्यकैश्च निरुत्थं जायते॥

Ninth process.

Iron sheet, smeared first of all with a paste made of matsyakhi, and then with another paste made of the juice of lakucha fruit, matsyakhi plant, and saffron, is to be heated strongly by means of two bellows till the rise of flames. This is then to be immersed in a decoction of triphala mixed with cow's urine. The iron is then to be hammered into The part which has not been fine powders. incinerated are again to be heated and incinerated in the afore-said way The ashes, thus obtained, are to be subjected to putam for thirty times after having been rubbed each time with sulphur, molases. and decoction of triphala. The ashes, thus prepared, are incapable of being restored to their original state te. the state of iron before incineration.

व्शमोविधिः।

समगन्धमयश्चूर्णं कुमारीवारिमद्दिंतम् । कियत्कालं पुटीकृतं चूर्णितं म्रियते धुवम् ॥

Tenth process

Powdered iron is incinerated, if it is subjected to putam after having been rubbed for sometime with an equal quantity of sulphur and a sufficient quantity of juice of kanya.

वकाव्योविधिः।

गोमूर्त्रहिफला काथ्या तत्कषायेन भावयेत्। त्रिसप्ताहं वरं लौहं दिनैकं मर्द् येत् पुनः॥ रुद्ध्या गजपुटे पाच्यं ततः काथेन मह^९येत् । दिवा ^१ पुटेद्दरात्रावेकविंशत्यहाविध ॥ एकविंशतिसंपुटैम्चिंयते त्रिविधं ह्ययः॥

Eleventh process

Iron of excellent quality is to be subjected to bhavana for twenty one days with cow's urine, previously boiled with triphala. It is then to be rubbed for one day with the above decoction and subjected to heat by gajaputam. Next it is to be rubbed during day time with the above decoction, and subjected to putam at night. Performance of the process for twenty one days, leads to the incineration of the iron

द्वादशोविधिः।

शुद्धलोहभवं चूर्णं लगरुड़ीरसैः।
मद्दीयत्वा पुटेद्दव हो दद्यादेवं पुटत्रयम्॥
पुटत्रयकुमार्थ्याश्च कुठारिक्कता रसैः।
पुटषट्कं ततो दद्यादेवं तीच्णं मृतं भवेत्॥

Twelfth process

Purified and powdered iron is to be rubbed with juice of patalagaruri and heated by putam. This is to be performed thrice. It is similarly to be treated with the juice of kanya for three times, and for six times with the juice of kuthara-chhinna. This will lead to the incineration of the tikshna iron.

त्रयोदशोविधिः।

द्वादशांशेन दरदं तीच्णचूर्णेन मेलयेत्। कन्यानीरेन संमर्घ यामयुग्मं तु तत् पुनः॥ शरावसंपुटे कृत्वा पुटेद्द गजपुटेन च। सप्तधेवं कृतं लोहरजो वारितरं भवेत्॥

Thirteenth process

Powdered and purified tikshna iron, mixed with one twelfth its weight of cinnaber, is to be rubbed for six hours with the juice of kanya, and then subjected to heat by putam. This process is to be performed for seven times leading to the incineration of the powder, which will be so light as to float upon the surface of water.

च हिंद्रामेंद्रिधिः।

क्षौहन्या पलं चेवोषरकस्य पलं तथा।
श्वगन्धा पलं चापि सर्व्वमेकः मह येत्॥
कुमार्यक्रिदिनं पश्चात् गोलकं श्वभुपत्रकैः।
संवेष्ट्य च मृदा लिप्त्वा पुटेद्द गज्युक्तः च॥
स्वांगशीतं समुद्दधृत्य सिंदूराभमयोरजः।
मृतं वारितरं प्राद्यं सर्वकार्यकरं परम्॥

Fourteenth process

Purified and powdered iron, usharaka (saltpetre), and asvagandha, each one palam in weight—all of

these are to be rubbed together with the juice of kanya for one day, and made into a ball which is to be wrapped up with the leaves of eranda and coated all round with mud. This ball, when dried, is to be heated by gajaputam, leading to the reduction of the iron into red ashes, which will float upon the surface of water.

पञ्चदशोविधः।
तन्मध्ये लोहचूर्णञ्च विनिचिपेत्॥
ततोऽयं ते में द्रवैः पूर्यः पुनः पुनः।
अर्जुनस्यारणालेर्वा लोहमेवं विमार े॥
Fifteenth process

Bark of arjuna is to be rubbed with water, mixed with kanji and kept in a bell-metal pot. Purified and powdered iron is to be thrown into the afore-said liquid, and the pot containing the whole thing is to be exposed to the heat of the sun. Fresh juice of arjuna bark or aranala is to be poured into the pot over and over again, as soon as the iron is found to be dried. This leads to the incineration of iron.

षोडशोविधिः।

दन्तीपत्रद्रवेन हि लौह चूर्णं विलोड़ येत्। दिनैकं येद में देयं पुनः पुनः॥ ा रात्रौ पुटे पचेदेभिद्राविश्च भावयेत्। एवमष्टदिनं र्यात् लौहस्य मृत्यवे खलु॥

Sixteenth process

Purified and powdered iron is to be mixed with the juice of danti leaves, and exposed to the heat of the sun for one day, the juice being applied as many times as necessary for the moistening of the iron powder, whenever it is dried. The iron is then to be dried and subjected to heat at night by putam. It is then to be taken out of the putam, when cooled of itself, and again mixed with the juice, and exposed to the heat of the sun. This is to be done for eight days, leading to the incineration of the iron.

सप्तदशोविधः।

चिश्रापत्रनिमं कुर्य्यात्त्रिवधं लौहपत्रकम् । मृत्पात्रस्थं चिपेत् घर्म्म दन्त्या द्रावैः प्रपृरितम् ॥ द्रावोऽयं दोयते तावत् यावज्जरति लौहकम् । म्रियते तीव्रधम्मन चूर्णितं तिश्वयोजयेत्॥

Seventeenth process

Iron is to be made into leaves as thin and small as tamarind leaves. These are then to be kept immersed in the juice of danti, contained in an earthen vessel, which is to be exposed to the heat of the sun

The heating is to be continued with fresh quice of danti applied, over and over again, till the incineration of iron, which is to be powdered very fine, when the process is completed

अष्टादशोविधिः ।

कान्तं ती चणं तथा मुगडं पत्री कृतं विशोधयेत्।
चूर्णितं भावयेत् तत् तु ति स्याच्च जद्रवैः ॥
ततस्तद् भावयेद् यलाद् द्विदिनं चित्रकद्रवैः ।
त्रिकगटकद्रवैस्रचहं सहदेव्यास्तथेव च ॥
गोर्त्रे स्त्रिफला थैः त्रचहं त्रचहम् ।
धातक्याश्च ततो ददेयं पुटं पुटम् ॥
रुद्धा गजपुटेनैवं मृतं योगेषु योजयेत्॥

Eighteenth process

Powdered and purified iron is to be subjected to bhavana for three times with each of the following — juice of kantakari, juice of trikantaka, cow's urine, decoction of triphala, and juice of dhataki. After each act of bhavana referred to above, the iron is to be rubbed and subjected to heat by Gajaputam. This will lead to the incineration of the iron.

उनिषंशोविधिः।

द्रवैः कुरगटपत्रे तथैलीहिचूर्णं विमर्द् येत्। दिनैकमातपे तीत्रे तथा द्रवैस्त्रिकगटजैः॥ वन्ध्याभृद्गीपुनर्नवागोर् त्रेश्च दिनं दिनम्। गोमृत्रैस्त्रिफला थ्या तत्ः भावयेत्॥ त्रिसप्ताहं प्रयत्नेन दिनैकं मह येततः।
रुद्धा गजपुट पचेदिनं काथेन मह येत्॥
दिवा मद्यं पुट इ रात्रावेकविंश्रत्यहानि वै।
एकविंश्रत्यहेनै- म्नियते त्रिविधं ह्ययः॥
Nineteenth process

Purified and powdered iron is to be rubbed in the ntense heat of the sun for one day with each of the ollowing—juice of kuranta leaves, (b) juice of rikantaka, (c) juice of bandhya, (d) juice of bhrinaraja (e) juice of punarnava, and (f) cow's urine the iron is next to be subjected to bhavanas for wenty one days with the decoction prepared from riphala boiled with cow's urine. The iron is then o be subjected to Gajaputam for twenty one times to night, after having been rubbed each time during the day with the same liquid (iiz decoction of triphala and cow's urine). This is how iron is incinerated

विशतितमोविधिः।

माचिकश्च शिला ह्यम्ले हंरिद्रामरिचानि च।
पिष्ट्रा तिरुद्धधः पत्रं तत्तं तत्तं निषंचयेत्॥
सप्तधा त्रिफलाकाथे जलेन चालयेत् पुनः।
कृहरेह्ये हृत्युद्धंद्व पेषयेत् त्रिफलाजलेः॥
श्रम्लेनालोडितं रुद्ध्या गजान्धकपुटे पचत्।
निरुत्थं जायते भस्म कान्तं तीच्णं च मुण्डकम्॥
पोड्रशांशंन लोहस्य दातव्यं माचिकं शिला॥

Twentieth process.

Makshika, manas-shila, haridra (turmeric), and maricha are to be rubbed with a sour vegetable juice. Into this solution are to be immersed hot iron leaves previously purified. They are next to be immersed, red hot, into the decoction of triphala for seven times. They are then to be washed off in water, and reduced to powder by being hammered by an iron rod. The powder, thus obtained, is to be rubbed with decoction of triphala and a sour non-metallic juice, and then heated by Gajaputam in a blind crucible. This will result in the reduction of the iron into ashes, incapable of being restored to their original state. The makshika and manas-shila used in this case should be one-sixteenth part of the iron.

पकविंशोविधिः।

तिन्दु य मज्जाभिर्लिप्त्वा लौहं खरातपे। धारयेत् ंस्य स्थं दिनान्तं तत् पुटेन्निशा॥ त्रिफ थसंयुक्तं कुर्य्यादेवम् पुनः पुनः। अनेन म्रियते लौहमचिराद्धि न संश्यः॥

Twenty first process.

Purified and powdered iron is to be smeared with the internal kernel of tindu fruits (previously rubbed with water and made into a paste), kept in a bell-metal pot, and subjected to the heat of the sun during the whole of the day time, and again subjected to heat by putam at night, having been previously rubbed with the decoction of triphala. This process of smearing and heating, as described above, is to be repeated over and over again, leading to the incineration of the iron

द्वाविंशोविधिः।

स्थाल्यां वा लौहपात्रे वा लौहद्दर्या विलोड़नैः। पाचयेत् त्रिफलाकाथे दिनैकं लौहचूर्णकम् ॥ तत्पिगडं त्रिफलातोयैः पिष्टा रुद्धा पुटे पचेत्। पोडशाहानि कर्त्तव्या प्रक्रियेषा प्रयत्ततः॥ ततः त्रिधा प्रकर्त्तव्यं स्थालीपाकम् पुटाद् । मृङ्गीद्रावे तालमूल्यां हस्तिकर्णस्य मुलके ॥ शतावर्घ्या विदार्घ्याश्च मूलकाथे च त्रैफले। वर्णितं सर्व्वमेतिद्धं कर्त्तव्यं पुनरव च॥ ततः पुनर्णवातीयैर्दशमूलकषायकैः। वृहत्याश्च कपायैर्वा वीजपुरस्य तोयतः॥ ब्रह्म्ब्रह्में शिष्र्रसौर्गोपयसाऽपि च। प्रत्येकेन प्रपेष्याद्यी पृट्ववत्तत्पुटे पचेत् ॥ भावयंत्तु द्रवेनैव पुटान्ते याममात्रकर्। प्रत्यकेन कमादेव पिष्टा पुटेश्च पाचयेत्। भनेन म्रियते सम्यक् कान्तं तीच्ण्ञ सुगडकम् ॥

Twenty second process

Purified and powdered iron is to be heated with

the decoction of triphala, kept in an iron pot, and turned constantly with an iron ladle till the whole thing turns into a lump, which is to be rubbed with the decoction of triphala and subjected to heat by This process is to be performed for sixteen The iron is then to be subjected to heat by the sthall paka system (to be described in process No 26) with the following liquids —juice of bhringajuice of talamuli, juice of the root of hastikarnapalasha, juice of the root of shatavarı, juice of the root of bidari, and decoction of triphala. Next, all these processes from beginning to end are to be again performed for the second time. The iron is then to be subjected to bhavana for three hours at a stretch with each of the under-mentioned liquids, respectively ___ juice of punarnava, decoction of dashamula, decoction of brihati, juice of bijapura fruit, juice or decoction of palasha seeds, and cow's milk. It is then to be rubbed with the same juice, and subjected to heat by putam after each act of bhavana and rubbing This results in the incineration of the iron.

त्रयोविंशोविधिः।

पत्रं लौहभवं सुतप्तमसकृत् थे चिपेत् त्रैफले।
चूर्णीभूत गो पचेत् त्रिफलजे काथेऽथवा गोजले॥
मत् चीत्रि रसेन पुटयेद्यावित्ररूथं भवेत्।
पश्चाद्रावि मद्भुतं सुपुटितं सिद्धं भवेदायसम्॥

Twenty third process.

Iron sheets are to be burned red hot and

immersed in the decoction of triphala. They are then to be reduced to powder and boiled with a decoction of triphala or cow's urine. The iron is next to be rubbed with decoction of triphala or juice of matsyakshi, and subjected to heat by putam. The last process is to be repeated till the iron becomes incapable of being restored to its original condition. Thus incinerated, the iron gains in efficacy, if subjected to bhavana with the juices of suitable herbs, and again subjected to heat by putam after every act of bhavana.

चतुर्विंशोविधिः।

परिप्तुतं दाड़िमपत्रवारा लौहं रजः स्वल्पकठोरिकायाम् । म्रियेत वस्त्रावृतमर्कभासा पुटेत् ततो वे त्रिफलादिवारा ॥

Twenty fourth process.

Purified and powdered metal is incinerated, if it is kept immersed in the juice of pomegranate leaves contained in a small earthen basin, and exposed to the heat of the sun, duly covered by means of a piece of cloth.

Purified iron, thus reduced, is to be rubbed with the juice or decoction of triphaladi and subjected to heat by putam (For meaning of triphaladi, see page 48.)

पञ्चविंशोबिधिः।

विशोधितमयश्चूर्णं गोमूत्रेन वि इ येत्। शतशस्तत् पुटेद्वक्को मृतमेवं भवेद् ध्रुवम्॥

Twenty fifth process.

Purified and powdered iron is to be rubbed with cow's urine and subjected to putam Performance of this process for hundred times results in the incineration of iron

रसव्यतिरेकेन मारितलौहस्य पुटविधिः।

शतादिस्तु सहस्रान्तः पुटो देयो रसायने ।
दशादिस्तु शतान्तःस्यात् पुटो वै व्याि शनः ॥ विज्ञेषः पश्च पश्च शताधिकः ।
पुटादोषविनाशःस्यात् पुटादेव गुणोदयः ॥
प्रियते च पुटाङ्कोहं पुटांस्तस्मात् समाचरेत् ।
यथा यथा प्रदीयन्ते पुटाः वहवो यदि ॥
तथा तथा विवर्द्धन्ते गुणाः शत सहस्रशः ॥
धात्नां नीरसं भस्म पुटाधि न शस्यते ।
सरसस्य पुटाधिक्यं नैव हि गुणवृद्धये ॥

Utility of putam.

For the purpose of incineration of iron, heating by putam for ten to hundred times may be considered necessary for the cure of diseases only. Putam for hundred to one thousand times is necessary for the purpose of curing and preventing physical decay and senility. For the purpose of retention of semen, it is necessary to subject iron to putam for more than one thousand times

Increase in the number of putam is calculated to increase the efficacy of a metal, incinerated without mercury. This is not the case with a metal incinerated by the help of mercury

षड् विंशोविघि ।

भानुपाकात् तथा । लीपाक पुटपाकतः । निरुत्थो जायते लोहो यथो लदो भवेत् ॥

Twenty sixth process.

Iron is incinerated and becomes incapable of being restored to its former condition, if it is roasted by means of all the three different operations called (a) Bhanu-paka, (b) Sthali-paka, and Puta-paka, as described below.

भानुपाकविधिः।

लौ शदि लौहञ्च मृद्गरेग हतं मृहुः । शिक्त्वाम्बुगि ं शुद्धं जलेन त्रैफलेन वा ॥ च येदबहुशः पश्चाद द्रवाचैव विमोचयेत्। शोषयेद्द भानुभिः पुनर्भानुपाके प्रयोजयेत्॥ †

श्रीहदूशिद लौहखल्वे इत्यर्थः ।

क भिः सुर्व्यक्षिः भिः।

प्रदेयं भानुपाके तु लौहतुल्यं फलत्रिकम् । जलं द्विग्रिणितं दत्त्वा चतुर्भागंतु रचयेत् ॥ एवमुक्तफलकाथजलं दत पुनः पुनः । शोषयेत् सूर्यं तेजोभिर्निरन्तरमहस्त्रयः ॥ अथवा तत्र तत् काथं दत्त्वा सप्तवारं भिषक् । शोषयेदर्करिमभिः वारं प्रयत्नतः॥

(a) Bhanu-paka Process

Purified iron is to be reduced to powder by being kept in an iron mortar and hammered repeatedly. The powder is then to be mixed with a sufficient quantity of water or decoction of triphala, and thus washed off. It is then to be dried by being exposed to the sun, subjected to the process of heating called bhanu-paka For the purpose of bhanu-paka, triphala, equal in quantity to the iron, is to be boiled with double its quantity of water which is to be reduced to one fourth its quantity. The iron is now to be saturated with the decoction referred to above, and dried by the sun. The process is to be performed continuously for three days or it may be performed for seven times

अथ ीपाकविधिः। इत्थमादित्यप न्ते । पा उचरेत्। फलत्रिकं प्राह्मस्यसस्त्रियुस्मिकृतः॥ तस्य षोड़िश्वकं तोयमष्टभागावशेषि म्।

मृदुमध्यकठोराणामन्येष म्।।

कथनीयं समादाय चतुरष्ठौ च षोड़श्।

गुणानां प्यते तोयं शेषयेदयसा ॥

स्वर पि लौहेन पाके स ता।

ाल्यां थादिकंदत्वा यथाविधि विनिर्मितम्।

पाकेन चीयते येन पिपाक दुच्यते॥

हस्तिकर्णपलाशस्य मृलञ्च शतमृलिका।

मृङ्गराजपितृप्रियपुन रसेः सह॥

स्थाल्यां लौहं पचेद्धीरः थात्तु व्दनु।

यथादोषौषधेनापि स्थालीपाको विधीयते॥

(b) Sthali paka

Roasting of iron by sthali-paka is to be resorted to after bhanu-paka. For the purpose of sthali-paka, triphala, three times in weight of the iron, is to be boiled with water, sixteen times in weight of the former, to be reduced to one eighth of the water

Decoctions of other things than triphala are to be prepared as follows—The article from which a decoction is to be prepared is to be equal in weight to the iron. Such an article is to be boiled with water which is four, eight or sixteen times its weight, according as it is soft, hard, or very stiff, respectively. The quantity of the decoction, thus

repared, should be equal to that of the iron. he juice of a plant is to be used instead of a decocion, the quantity of such a juice should also be qual to that of the iron. Roasting by sthali-paka neans heating of the iron by fire in an iron cauldron, n which the iron is boiled with some decoctions or uices of plants, till the decoction or juice is comletely dried up Such a roasting generally takes slace, first of all, with decoction of triphala (to be repared in a way described above), and then with the ecoction or juice of the following -hastikarnapalasha roots, satamuli, bhringa-raja, kesharaja, and For the purpose of sthall-paka, juices or decoctions of other herbs also may be made use of, if called upon by the nature of the disease for the reatment of which the iron is meant to be prepared.

अथ पुरपाकविधिः।

स्थालोपाके सुं ं प्रचाल्य खच्छवारिणा।

शुष्कं संचूर्ण्य यत्नेन पुटपाके प्रयोजयेत्॥

पुटादोषविनाशः स्थात् पुटादेव गुणोदयः।

प्रियते च पुटाल्लोहस्तस्मात् पुटं समाचरेत्॥

यथा यथा प्रदीयन्ते पुटा सुबहुशो यदि।

तथा तथा प्रकुट्वन्ति गुणानेव सहस्रशः॥

पुटपाकेन ंतु शस्यते रस्त ।

दशादिशतपय्यन्तो गदे पुटो विधिः।

शतादिस्तु सहस्रान्तः पुटो देयो । यने॥

वाजिकर्माण विज्ञेयो दशादिः शतपश्चकः।

राह्ने पुटेह्नोहं यावचूर्णीकृतं जले॥

निस्तरङ्गे लघुत्वेन समुत्तरित हंसवत्।

पुटपाकौषधस्यापि थो वा स्वरसोऽपि बा॥

वच्यमानप्रमाणेन कर्त्तव्यो भिषजां वरैः।

सर्वेषां स्वरसाभावे थो प्राह्यो मनीषिभिः।

श्रभावे स्वरसस्यापि काथ एव फलित्र त्॥

(c) Puta-paka

The iron, properly roasted by sthali paka process. should be washed with clear water, then dried. powdered, and again roasted by puta-paka Roasting by putam serves to remove the natural blemishes and to increase the properties of iron and other metals. Such a roasting causes the incineration of iron which gains in efficacy in proportion to the number of putam resorted to Metals, properly incinerated by means of putam, should be used in mercurial operations. If it is meant to cure diseases only. iron, incinerated by 10 to 100 putams, may be made use of. Putams from 100 to 1000 are to be resorted to, if it is meant to prevent and cure senile decay. Putams from 10 to 500 are necessary, if it is meant to use the metal as an aphrodisiac. Putams, in case of a metal, are to be resorted to so long as it does not float upon calm water. For the purpose of puta-paka, the juice or decoction, whichever is

available, of the herbs named below should be made use of --

अथ त्रिफलादिगणः।

त्रिफला त्रिवृता दन्ती ुकी वृद्धदारकवृश्चीरवृषप चित्र :॥ शृङ्गचेरविङ्ङ्गीच भृङ्ग गैषधम्। दाड़िमस्य च पत्रानि श्तपुत्री पुनर्शवा॥ कुठारकामके कन्दः तन्त्री े स्य पर्शि हस्तिकणेपलाशश्च कुलिशः केशर कः॥ मानः खरिडतकर्णश्च गोजिहा लोहमार ः। गिरिशैयोंगिभिः प्रोक्तस्त्रिफलादिखं गणः॥ सामान्यपुटपा र्थमेतानीच्छिन सूरयः। विशेषपुट य गणानन्याः शृणुदितान्॥

अथ परएडादिगणः।

एर ः शारिवा द्राचा शिरीपश्च रणी। माषमुद्राख्यपर्णिनौ विदारीकन्दकेतकी। एरएडादिगएो। ह्येष सर्व्ववातवि रनुत्॥

अथ किरातादिगणः।

किरातममृता निम्बः कुस्तुम्बुरु शतावरी। पटोलंचन्दनं पद्मं शाल्मल्युड्म्बरी जटा । पैत्तिकामयहन्ताऽयं वि ।तादिगगो

अथ श्रङ्गवेरादिगणः।

श्वक्तवेर मृलानि द्विष्ट्यं कौटजं फलम् । करञ्जद्वि मूर्वा शोभा शिरीषकौ ॥ वरुणश्चार्कपर्णंच पटोलं कर्यटकारि । श्वक्तवेरादिको ह्येष गणः श्लेष्मगदापहः ॥

अथ गोक्षुरादिगणः।

गोचुरचुरकौ व्याघी सिंहपुच्छीद्वयं स्थिरा। गोच्रादिरिति प्रोक्तो वातश्लेष्महरोगणः॥

अथ पदोलादिगणः।

पटोलपत्रकोशीरकासमद्दीपराजिताः। लोध्रे न्दीवरकह्लारवराही कान्तया सह। पटो दिरिति ज्ञेयः पित्तरलेष्मगदापहः॥

अथ किंशुकादिगणः।

किंुकः काश्मरी विश्वमग्निमन्थि कि कः। श्योनाकं तक्ष्णि च सिंहपुच्छीद्वयं स्थिरा॥ पा। ारी च ती बिल च। किं कादिगणो ह्येष दोषत्रयहरोमतः॥

अथ शतावर्यादिगणः।

श री व धात्री गुड़ूची वृद्धदारकः । वानरीभृह्गर ख्यविदारीगोचुरचुराः । वाजिगन्धा क चैव वाजिकम्मेसु स्यते ॥

अथ विदार्घ्यादिगणः।

विदारीकन्द्पिगडाह्वभृङ्गराजशतावरी। चीरिकंचुकभञ्जाता तकाचित्रकास्तथा॥ करिकर्ण शश्च मुषलोमधु वपि। मुगिडरीकेशराजौच शस्ता एते रसायने॥

अथ पुटपाके उपदेश:।

मान्ये च विशेषे च पुटे यद्धयत् प्रकीर्त्तितम् । मिलितैरेकशो वा ें पुटयेत् ः। षुटपाके फलादीनामयसा यहगां म्॥

Triphaladi gana.

They are as follows—triphala, trivit, danti, katuki, tala-muli, briddha-dara, brischira, basaka, chitraka, ardraka, biranga, bhringa-raja, bhallataka, shunthi, darima leaves, shatamuli, punarnava, kuthar-chhinna, mustaka, suranam, guduchi, veka-parni, hasti-karna-palasha, asthi-sanhara, kesha-raja, mana, khandita-karna (kharakona), and go-jihva. These are incinerators of iron They are generally used in the process of heating of iron by putam.

Erandadı-gana.

They are as follows —eranda, shariba, draksha, shirisha, prasarani, mashaparni, mudgaparni, bidarikanda, and ketaki. They serve to pacify all the diseases due to an abnormal excess of air. Iron, rubbed with the juice or decoction of these drugs,

and heated by putam, is therefore efficacious in diseases due to an excess of vayu

Kıratadı-gana

They are as follows—kirata, guduchi, nimba bark, green dhanya, shatavari, patala, chandana, padma, shalmali, udumbara, and jata-manshi. They serve to pacify all the diseases due to an abnormal excess of pittam. They should therefore be specially used in the process of incineration of iron by heating by putam, if it is meant to use such iron in diseases due to excess of pittam

Shringaberadi gana

They are as follows —ardraka, nirgundi, indrajava, karanja, visha-karanja, murba, shobhanjana, shirisha, baruna, arka leaves, patala, and kantakari They serve to cure diseases due to an excess of kapha They should therefore be used in the process of incineration of iron by heating by putam, if it is meant to use such iron in diseases due to an excess of kapha.

Gokshuradı gana

They are as follows—gokshura, kokılaksha, kantakarı, shala-parnı, and prıshnı-parnı They serve to pacify an abnormal excess of vayu and kapha They are therefore to be specially used in processes of incineration of iron by heating by putam, if it is meant to use such iron in diseases due to an excess of vayu and kapha.

Pataladi gana.

They are as follows -patala leaves, ushira,

kasha-mards, aparajita, lodhra, nilotpala, kalhara, (white utpala), barahi-kanda, and priyangu. They serve to pacify diseases due to an excess of pittam and kapha. Iron meant to cure such diseases should be rubbed with the juice or decoction of these drugs before it is heated by putam

Kınshukadi-gana

They are as follows—palasha, gambhari bark, shunthi, agnimantha, trikantaka, shyona, sapta-parni, shala-parni, prishni-parni, shalmali, patala, kantakari, brihati, and bilva They serve to pacify diseases due to an abnormal excess of the three doshas (i.e. vayu, pittam, and kapha). Iron meant to cure such diseases should be rubbed with the juice or decoction of these drugs and then heated by putam.

Shatabarjadi gana

They are as follows—shatabarı, bala, amalaki, guduchi, brıddha-daraka, banari, bhrınga-raja, kesharaja, bıdarı, gokshura, kokilaksha, ashva-gandha, and pıppali They are aphrodisiac Iron meant to be of this description should be incinerated with these drugs

Bidarjadi gana

They are as follows—bidari-kanda, tagara, bhringa-raja, shatabari, kshirika, kanchuka, bhallataka, guduchi, chitraka, hasti-karna-palasha, mushali, jasti-madhu (or mahua plant), mundiri, and kesharaja These are curer and preventer of senile decay. Iron meant to be of this description should be rub-

bed with the juice or decoction of these drugs, before it is heated by putam

N B. Iron should be rubbed, before being heated by putam, with all or any one of the groups of drugs referred to above, according to the necessity of the case. Such a rubbing, followed by an act of heating by putam, may be repeated as many times as desired. For the purpose of each act of such a rubbing, the quantity of the juice or decoction of the group of drugs referred to above should be equal to that of the iron.

प्रयोजनवशार पुटपाके प्रयोज्या :।

वारिशियु ।शेभकर्णभृद्गद्रवाम्भसा ।

अत्रोत्तरे पुनर्द्याद्भ्यसिक्ष पुटान् ॥

तद्दानाद्दवन्धकोष्ठस्य लोहं वातानुलोम्थकः ।

स्मृतं पिष्पलितो के मन्दाग्ने रिप्तवृद्धये ॥

दिद्धविद्याद्धिय क्लाँ व्येऽरुची जम्बीरवारिणा ।

शिरीषतो वर्ण्यं वाते वाट्या मम्भसा ॥

पित्ते वर्ण्यं वाते वाट्या मम्भसा ॥

पित्ते वर्ण्यं वाते वाट्या मम्भसा ॥

दशमूली येन सित्तपातोद्भवे गदे ॥

करातिक्ततोयेन ज्वरेषु विषमेषु च ।

गुरुचीवारिणा मेहेऽतिसारे टजाम्भसा ॥

बह्मयष्ट्यम्भसा श्वासे कासे वास ।रिणा ।

कोदुम्बरिकातोये र पित्त न्तये ॥

पागडुत्वे महिषीमुत्रैः क्रमौ जन्तुव्ञतगडुलैः । कुष्टे विड्क्सभल्वातैः प्रीह्रि रोहितकाम्भ ॥ सिन्दुवारद्रवेम् घाते शूले तुषोदकैः । पामादद्रुविचर्चीषु दद्यादद्रु रिगा॥ मुशलीवारिगार्शःसु हृद्रोगेऽर्जुनवारिगा। तप्रशान्त्यर्थमुच्चटामूलर्जीद्रवैः॥ सोमराजी ेः कुष्टे त हि खदिरोदकैः।

सोमराजी ः कुष्ट त हि खदिरोदकः। शिलोद्धे दाम्बुनाऽश्मर्थ्यामुदा े त्रिवृज्जलेः॥ गुल्मेऽम्लदाड़िमाम्भोभि ब्रीह्मीतोयैः खरचये। वाजिगन्थाजटातोयै राजयचमि ृत्तये॥

Putam with special drugs for the treatment of special diseases

Iron is to be subjected to heat by putam after having been rubbed with the following drugs, if it is meant to cure constipation.—triphala, sigru, hastikarna-palasha, bhringa-raja, and again triphala. Similarly, iron is to be rubbed with decoction of pippali for the purpose of curing indigestion. Juice of bidari is to be used for the treatment of impotency. Lime juice is to be made use of, for the treatment of loss of appetite. Decoction of shirisha is to be thus used for the removal of loss of complexion Juice of bala is to be used for the treatment of rheumatism, paralysis, and other diseases due to excess of vayu Juice of parpata is to be used for

diseases due to pittam Decoction of dashamula for disesases due to an abnormal excess of the three doshas Juice of kirata-tikta is to be used in bisamaqvaram (malaria, kalazar, etc.) Decoction of guduchi ın spermatorrhoea Juice of kutaja in diarrhœa Juice of bhargi in asthma Juice of bashaka in Juice of kakodumbura in racta-pitta she-buffalo is to be used in Tirme of Decoction of biranga and rice in worms Decoction of biranga and bhallataka in leporsy. Decoction of rohitaka in spleen Juice of sindu-bara in gleet and stricture Kanjı in colic. Juice of dadrumari in itches and ringworm Juice of mushali in piles Juice of arjuna in heart disease. Juice of ucchata roots in rheumatism. Decoction of somaraji and khadira wood in leprosy. Juice of shilodbheda in stone disease Juice of tribrit in udabarata or intestinal obstruction Juice of sour pomegranate in gulma Juice of brahmi in hoarseness of voice Juice of ashva-gandha and jata-mangsi phthisis

पुनः स्थालीपाकविधिः।

अथ कृत्व ोभागडे दत्त्वा त्रिफलाचशेषमन्यद्वा। प्रथमं स्थालीपाकं कुर्यादेतत् चयात्तदः ॥ गजकर्णच्छदमूलशतावरीभृद्गकेर्व्यक्तरसैः। प्राग्वत् ।लीपाकं कुर्यात् प्रत्येकमेकं वा॥

(d) Sthalipaka for the second time

The iron reduced in the above manner is to be

boiled with triphaladi, etc (see page 47) in an iron pot. When dried, it is again to be boiled with some or all of the following juices—hasti-karna-palsha roots, satabari roots, bhringa-raja, and kesha-raja

सप्तविंशोविधि।

कान्तादिलौहमारणविधानसर्बिख उच्यते तावत्। यस्य कृते तल्लीहं पक्तव्यं तस्य शुभदिवसे ॥ समृदङ्गारकरालो ू गो शिवं समभ्यच्ये। वैदिकविधिना वहिं निधाय दस्त्वाहुती तः॥ शक्त्यनुरुपं द द द्विजाय सन्तोषिने गुणिने ॥ सन्तोष्य कारं प्रसादप्गादिदा ब्रादौ तद्शमसारं निर्मलमेकान्ततः कुर्यात् ॥ तद्नु द्वन्यव्यक्तित्रज्ञागिरिकर्णिकास्थिसंहारैः। करिकर्णच्छद्मृलश्तावरीकेशराजरसैः॥ शालि ू ।शी प्रावृज्जमृह्गराजैः। लिप्त्वा दग्धव्यं तद्दृष्टिकियलोहकारेगा ॥ चिरजलभावितनिर्मलशा ङ्गारेगा परित आच्छाद्य। कुशलाध्मापितभस्त्रानवरतमुक्तेन पवनेन ॥ मृच्छवलसलिलभाञ्जि किञ्च खच्छाम्बूसं तानि॥ द्रव्यान्तरसंयोगाद्वा स्वां शक्तिं भेषजानि मुञ्चन्ति। धिलमत् सर्वं सर्वत्र हि जीयेत् तस्मात् ॥

संदंशेन गृहीत्वान्तः प्रज्विलताः। ध्याद्पनीय। ति यथायथ तेथेव दग्धं रच्चयेन्निपुगः॥ निहितमुद्धं मुखांकुश्लग्नं त्रिफलाजले विनिःचिपेत्।

निर्वापयेदशेषं शेषं ति लाम्बु रचेच ॥
यञ्जोहं न मृतं तत् पुनरिष पक्तव्यमुक्तमार्गेण ।
न मृतं तथापि यत् तन् न पक्तव्य गौहमेव हि तत् ॥
तदनु घनलौहपात्रे कालायसमुद्दगरेण संचूण्य ।
दत्ता व शः सि ं प्रचाल्याङ्गारमुद्धृत्य ॥
तदयः केवलमग्नौ शुष्कीकृत्वातपेऽथवा पश्चात् ।
लौहशिलायां पिंष्यादसितेऽश्मिन वा तद्प्राप्तौ ॥

Twenty seventh process.

Shiva is to be worshipped on a piece of land, duly cleansed, on a day consistered auspicious for the man for whom the iron is meant to be prepared (an auspicious day is to be ascertained having regard to the configuration of the planets for the time being, with special reference to the position of the moon at the time of birth). The worship is to be conducted and a sacrifical fire is to be kindled in accordance with the rites prescribed in the Vedas. Presents may also be given to the Brahmanas, chemists, and the smiths according to ability. First of all, the iron is to be purified very carefully. It is to be coated with a paste made of

the following herbs, covered by means of charcoal prepared from shala wood (previously cleansed by being washed off in clear water), and heated by means of a bellows -kuthara-chinna, triphala, girikarnika (black aparajita), asthi-sanhara, hasti-karna-palasharoots, shatavari, kesha-raja, shalincha-roots, mulaka, bhringa-raja The iron, thus heated, is to be immersed into decoction of triphala only, when It is then the coating is completely burnt out to be washed off, dried, and duly powdered The process is to be repeated over and again until the iron is reduced to ashes. The metal which is not incinerated by the above process is not iron at all. In performing the process, care should be taken to see that dust, mud, and other impurities do not find their way into the iron at any stage of its incineration, in as much as herbs and other medicinal ingredients lose their property coming in contact with foreign matters.

अथ पुटपाकप्रकारः।

लौहादि पुटनीयं हि रवितापसुशोधितम् । संरुथ्य मृत्शरावाभ्यां सन्धिलेपं समाचरेत् ॥ सपंकवस्त्रखराडेन तथा कर्दमयोगतः । रूपह्यद्वंपुटं तद्धि संपुटं च पुटं तथा ॥ पा ं पुटयन्त्रेन पुटपाको विकथ्यते । हस्तमात्रमिते गर्ते करीषेनार्द्धंपूरिते ॥ श्र । तुष ष्टाभ्यां शरावसंपुटं चिपेत्। श्रिप्तां निधापयेत् तत्र ततो गर्तं प्रपूरयेत्॥ दिवा वा यदि वा रात्रौ विधिनानेन पाचयेत्। चतुर्भिः प्रहरैरेव पु । केन मारयेत्॥ कुक्कुटपुटसंज्ञोऽयं पुटपाको विकथ्यते। अ पुटपाके चाणादूद्धं स्थितो भवति भस्मसात्॥ श्राधस्तादपकृष्टस्तु मन्दो भवति वीर्घ्यतः। कुगढ गो नाच्छन्न श्राक्रष्टच्यः सुशी ः। य तप्तस्य गुण्हानिः प्रजायते॥

How to heat a thing by putam

The material which is meant to be heated by putam is to be dried up by sun's rays, and put upon an earthen basin, covered by another basin of the same kind, the joint being closed by means of mud and rags. The basins, thus joined, are called putam, samputam or sharaba-samputam Heating of materials, confined in this appartus, is called puta-paka*

Fill up one half of a cubical pit, one cubit in dimensions, with cowdung cakes or wood and husks, set fire to it, and place the samputam containing iron, etc, upon the heap Fill up the remaining half of the pit with cowdung cakes, etc. Such a

^{* े}२६३—२६६ पृष्ठाः :।

^{*} See page 293 and 296, Vol. I.

fire is to be kept burning for 12 hours continuously. When cooled of itself, the samputam is to be taken out, and the iron, etc, to be obtained, breaking open the samputam Heating in this way is known by the name of kukkuta putam (see page 296, Vol 1) Heated in this way, even a little longer than the prescribed time of 12 hours at a time, the contents of the iron becomes incinerated, but they lose in quality, if they are heated for a shorter than the time prescribed

अष्टाविंशोविधिः।

ज्ञेयमेतत् स्वतन्त्राऽयःपाकं न पलपञ्चकादर्वाक् ।
सुबहुप्रयासदोषादूद्ध त्रयोदश त् ॥
तत्रायिस नीये दौ त्रयोदश न्ते ।
लौहात् त्रिग्रणा त्रिफला षड्भाः रिघका ॥
मई उनस्थालीपा स्त्रिफलोकभागसम्पा ः ।
त्रिफलाभागद्वितयं ध्रूण्णियः लौहपाकार्थम् ॥
सर्व्व यःपुटनस्थालीपाक र्य्ये जलं संख्यातम् ।
इमांशेन शेषः थ यत्नतः स्थाप्यः ।
तेन हि मई नपुटनस्थालीपा भविष्यन्ति ॥
पा र्थे तु त्रिफलाभागद्वितयं शरावसंख्यातम् ।
प्रतिपलमम्बुसमं ।दिधकं द्वाभ्यां शरावाभ्याम् ॥

तत्र चतुर्थीभागः शेषो निप्रौः नो ह्यः। अयसः पाकार्थत्वात् स हि सर[ि] त् प्रधानतमः ॥ पाकार्थमश्मसारे पञ्च दौ त्रयोद्रशृद्धान्दे । दुग्धश्ररावद्वितयं पादैरेकाधिकैरधिकम् ॥ पञ्चपलादेमात्रा तदभावे तदनुसारतो ग्राह्मम्। चतुरादिकमे न्तं शक्तावधिकं त्रयोदशादिकात् ॥ ात्रिकटुचि कान्त मकविड़ङ्गानाम्। तीको विका द्वानाम्॥ रि कृष्णाजीरयोरिप चूर्णान्यय स नि स्युः। त्रिकटुविड्ङ्गा नियता अन्ये यथाप्रकृति ॥ सदोषकृते तीफलादेर्लवङ्गकान्तस्य। च्चेपः प्त्यनुरूपः सर्व्वस्योन ै।चैः॥ कान्त मके निःशेषं दोष हर द्विगुण्त्रिगुण्चतुर्गुण्माज्यं याद्यं यथाप्रकृति ॥ यदि भेषजभूयस्त्वं गोकत्वं वा तथापि चूर्णाणाम्। यं संख्याभूयोऽह ेन भूयोऽ े॥ एवं धात्वनुसारात् तत्तत् कथितौषधस्य बाधेन । % सर्वत्रैव विधेयस्तद्कथितस्यौषधस्योहः॥

Twenty Eighth process

For the purpose of incineration, the minimum

बाधेन वर्जनेनेत्तर्थः ।

and maximum quantities of iron should be 5 and 13 palas, respectively. In other words, iron less than 5 palas and more than 13 palas in quantity is unfit for incineration For the purpose of such incineration, triphala, three times in weight of the iron, plus 6 palas is to be made use of One third of this tuphala is to be used for the purpose of rubbing, heating by putam and by sthalipaka process the purpose of the final act of loasting, the remaining two thirds of triphala is to be used. For the purpose of rubbing and heating by putam of iron, the quantity of water to be used for the preparation of decoction of triphala should be sixteen thirty two times that of the triphala. If the quantity of iron varies from seven palas to 13 palas, the quantity of water to be used in preparing decoction should be as stated above, plus an additional quantity of 3 to 11 sarabas on the whole. quantity of water thus used is to be reduced, by boiling, to one eighth of its original quantity The decoction, thus prepared, should be used in bing and heating by putam and then boiling the iron by the sthali paka process

Next is the process of final roasting. For this purpose, the parts of triphala, as referred to above, should be boiled with water, eight times in weight, plus an additional quantity of two sarabas added to the whole. The water thus boiled with triphala should be reduced to one fourth its original weight. The decoction so prepared is the most important factor in the process of final roasting

of the iron. If kanta iron or load stone is to be reduced to ashes, milk, one and one fourth prasthas in weight, should be added to the decoction at the time of the final roasting Kanta iron or load incinerated, even if it is less stone may be than five palas in weight. As a matter of fact, the less the weight of the kanta iron to be incinerated. the greater is its efficacy. The milk referred to above is prescribed for the preparation of kanta lauha, 5 to 13 palas in weight. If the quantity of the kanta iron is less than 5 palas, the quantity of the milk to be used should be reduced accordingly At the time of the final roasting of all sorts of iron, including load stone, powder of the following herbs, equal in quantity to the iron, is to be mixed with the iron undergoing roasting triphala, trikatu, chitraka roots, nagarmustaka. bidanga, jatiphala, jatipatra, ela, kakkola, lavanga, white jira, and black-jira Of these, triphala, trikatu, and bidanga are to be used in all cases, whereas they are to be chosen from, having regard to the constitution of the patient for whom the preparation is meant. For the purpose of removing the faults of black iron (ायसः), all the herbs from jatiphala to lavnga are to be given so far as they can be procured In the event of the one being incapable of being procured, that which precedes it in the above list should be used as a substitute. Of all the herbs named above, only nagara mustaka is sufficient for removing the faults of any iron In all cases of final roasting, clarified butter to the extent of 2 to 4 times in weight of the iron (to be decided upon in reference to the constitution of the patient) is to be applied at the final roasting. Herbs, not included in the list, may also be made use of, if considered necessary, exactly as one or more of those included in the list may be rejected, if called upon by the nature of the case

ऊनत्रिंशोविधिः।

लोहचूर्णं पलद्रन्द्रं गुड़गन्धो स्ट्रांस्ट्रे । खल्वे विमर्घ नितरां पुटेद्विंशतिवारकम् ॥ पेषणं तु प्रकर्तव्यं पुटः पश्चात्प्रदीयते । श्रनेन विधिना सम्यग्भस्मीभवति निश्चितम् ॥ सर्वरोगान् निहन्त्येव नात्र कार्या विचारणा । श्वेतपुनण्वापत्रतोयेन दशसंख्य ः । पुटास्ततः प्रदेयाश्च सिन्दूराभं प्रजायते ॥

Twenty ninth process.

Two palas of purified and powdered iron and the same quantity of each of gandhaka and gurh (molases) are to be rubbed together and heated by putam. This process is to be performed for twenty times leading to the incineration of the iron, which should then be rubbed with the juice of white punarnava for ten times, and subjected to heat each time it is so rubbed. The product will be ashes as red as vermilion.

त्रिंशोविधिः।

दाड़िमस्य दलं पिष्ट्या त ्तुर्गुगावारिगा।
तद्ररसेनायसं चूर्णं प्रा ेत् सुशोधितम्॥
अ शोधयेत् पुटेदेवं पुनः पुनः।
एकविंशतिवारं न् म्रियते संश्यः॥
Thirtieth process

Powdered and purified iron is to be saturated with the juice of pomegrante leaves pestled with four times their weight of water. When dried by the sun, they are to be subjected to heat by putam Performance of the process for two times results in the incineration of the iron

एकत्रिंशविधिः।

शिलागन्धार्कदुग्धाक्ताः खर्णाद्याः सर्वधातवः । म्रियन्ते द्वादशपुटैः ं गुरुवचो यथा ॥

Thirty first process.

All the metals including gold are incinerated by being subjected to heat for twelve times, after having been rubbed with manas-shila, gandhaka and milk of arka plant

द्वात्रिंशोविधिः ।

अथ मारण थिं कथ्यन्ते भेषजानि च। तत्र गरि निका मुख्या कचित्प्रोक्ता महौषधिः॥ कचित् श्रीति हरित्पर्णीति सा कचित्। दिज्योषधीति पि कद्मिन्मर्तकलम्बुका॥

अन्यत्समानं चांगेर्याः कुठारछिन्नसंज्ञकम्। विकङ्कतं तृतीयं च चतुर्थं र रिषः॥ पञ्चमं त्वचकं प्रोक्तं पष्टमुक्तं मनःशि हिङ्गुलं सप्तमं प्रोक्तमप्टमं खर्णमाचिकम्॥ मिलितान्येतानि हन्युः पित्तं कफमस्यव्दरम्। विविधां पागड्तां कगडु वहिमान्यं विवर्णताम् ॥ Thirty second process.

The following are some of the drugs having the property of killing iron -shalincha, kutharachhinna, bikankata, racta marisha, twachakam, manasshila, hingula, and swarna makshika All of these combined have the property of curing pittam, kapha, menorrhagia, anemia, itches, loss of appetite, and losof complexion. (Iron may be rubbed with all these drugs and heated by putam in the usual way)

पारदविहीनलौहभ ो दोषापनयनम्। लौहस्य नीरसं भ कन्यानीरेगा मर्दयेत । तृतीयांशरसेनैव गन्धेन द्विगुनेन च॥ एवं यामद्वयं कुर्य्यात् ततो देयो पुटो लघुः। द्गशीतं ममुद्धार्यं सिद्धं भ

Removal of defects of iron incinerated without mercury.

Iron incinerated without mercury is to be rubbed with one third its weight of mercury, and sulphur, double the quantity of mercury, for six hours with the juice of kanya. It is then to be heated by Laghuputam, before it is used as a drug

> त्रयोस्त्रिंशोविधिः । (शुक्रलौहम् ।)

प्रगाम्य शंकरं रुद्रं दगडपागिं महेश्वरम् । जीवितारोग्यमन्विच्छन्नादिमः पृच्छते गुरुम् ॥ शुकाचार्यं द्विजश्रेष्टं रसज्ञमौलि ू एम्। सुखोपायेन हे नाथ शास्त्रच राम्निमिर्व दुबेलानां च भीरूणां चिकित्सां वक्तुमईसि॥ तच्छिष्यवचनं श्रुत्वा लोकानां हित म्यया। अर्शसां नाशनं श्रेष्टं भैषज्यमिद्मीरितम् ॥ पागिडवज्रादिलौहानामादायान्यतमं शुभम्। कृत्वा नि मादौ च कुनट्या माचिकेण वा ॥ पत्त्रमूलकल्केन खरसेन दहेत् ततः। वहाँ निचिप्य विधिवत् शालांगारेण निर्धमेत्॥ च तस्य बोद्धव्या त्रिफलाया रसेन च। ततो वि य गलितं शंकुनोद्धं समुत्विपेत्॥ रसे पूर्व तदाकृष्य तु निर्वपेत्। न सम्यग् गि ं यत् तु तदेव विधिना पुनः। ध्मातं निर्वापयेत् तस्मिन् लौहं तत्त्रिफलारसे ॥ ततः संशोष्य विधिवत् चूर्णयेल् लौहभाजने । लौहेन च तथा पिंष्याद दशदि श्वच्णचूर्णितम् ॥ धृत्वा लौहमये पात्रे मार्चे वा लिप्तरन्ध्रके । रसैः पं मं ऋत्वा पचेत् तद्गोमयाप्रिना ॥ पुटानि क्रमशो दद्यात् पृथगेषां विधानतः। त्रिफलाद्रं कभृंगानां केशराजस्य बुद्धिमान् ॥ कन्द्मानकभ तवहीनां शूरणस्य च। हस्तिकर्णपलाशस्य कुलिशस्य तथैव च ॥% प्रदे प्रदे चूर्णियत्वा लौहात् घोड़शिकं पलम् । 🕇 तन्मानं त्रिफ याश्च पलेनाधिकमाहरेत्॥ भागावशिष्टे तु रसे त ाः ेद्बुधः। अष्टी पलानि दत्वा तु सर्पिषो लौहभाजने । तावेव लौहदर्व्या तु चालयेत् विष्ट्रिव्वकम् ॥ ः पाकविधानज्ञः खच्छे चोद्धे च सर्पिषि । मृदुमध्यादिभेदेन गृही त् पाक ज्यतः॥ ेत वि नेन कौतुकमङ्गलः।

घृतस्रामरसंथुक्तं लिहेदारक्तिक

^{*} कुलिशः ख ेः काणिछँ ड्रा इति

[🕆] त्रयोदशपलादूर्द्धं लीहं न पाच्यम् ।

वर्द्धमानानुपानं च गव्यं चीरोत्तमं मतम्। गन्याभावेऽप्यजायाश्च स्निग्धवृष्यादिभोजनम् ॥ सद्योवहिकरं चैव भस्मकं च नियच्छति। हन्ति वातं तथा पित्तं कुष्टानि विषमज्वरम् ॥ गुल्माचिपागडुरोगांश्च निद्रालस्यमरोचकम्। श्रुलं सपरिग्णामं च ेहं चाववाहकम्॥ श्वयथुं रक्तस्रावं च दुर्णाम च विशेषतः। बलदं बृंहणं चैव कान्तिदं खरवर्द्ध नम्॥ लाघवं च ोाज्ञं च नैरोग्यपुष्टिवर्द्ध । श्रायुष्यं श्रीकरं चैव वयस्तजस्करं तथा ॥ सस्रीके पुत्र ं बलीपलितनाशनम्। दुर्गामारिरयं शु हो वारसहस्राः। निर्मुलं दह्यते शीघं य तूलिमवािम

Thity third process

The sage, Shukra, who was a very great chemist, gave the following recipe to his disciple, Adıma, for curing piles, etc., without the use of surgical instruments, etc.—A leaf of iron of a superior quality is to be freed, first of all, from rust by manas shila or makshika. It is then to be smeared with a paste made of the roots of shalincha rubbed with the juice of the same, and burnt by means of a fire, made of charcoal prepared from the shal wood, and blown by

bellows. The intensity of the heat is to be tested by means of decoction of triphala. When sufficiently burnt, the iron is to be removed from the fire and immersed at once into the pure decoction of triphala. If it has not been completely incinerated, the iron is again to be burnt in the same way and immersed in properly, and powdered in an iron mortar, by means of an iron rod, and then again finely powdered in a boat-shaped iron mortar by being rubbed by an iron The iron is then to be mixed with the juices pestle. of the under mentioned drugs in such a way as to resemble mire, and then heated over fire made of cowdung cakes in an iron cauldron or in an earthen pot sufficiently strong The iron is next to be subjected to putam after having been rubbed with the juice of each of the following separately, and in accordance with the order in which they have been given —triphala, ardraka, bhringaraja, kesharaja, bidari-kanda, mana, bhallataka, chitraka, shurana, hastı karna-palasha, and kulisha (khanda karna)

The iron is to be powdered each time after it is heated in the afore said way. Sixteen palas of this iron* is to be roasted in an iron cauldron with a decoction prepared from triphala, seventeen palas in weight, boiled with 136 palas of water which is to be reduced to seventeen palas. In course of the roasting, eight palas of clarified butter is to be put into

[•] Iron is generally not to be prepared in quantities greater than 13 palas. The present case is an exception.

प्रथमोऽध्यायः।

the iron which is to be turned all along with an iron ladle. The preparation is to be considered complete, as soon as the clarified butter is found to float on the surface in a clear state. It may however be still roasted according as it is intended to make it soft, harder, and very stiff (see process No 5 page 77)

The minimum dose of the iron, thus prepared, is one racti (ie, it may be increased up to six ractis a day) to be taken every morning with clarified butter and honey. After taking the medicine, the patient is to drink a little of cow's milk which is to be increased day by day. In the absence of cow's milk, goat's milk may be used. The diet should be prepared with clarified butter and be of a nutritious character.

This medicine increases at once the power of digestion. It cures bhasmakagni or an abnormally strong appetite, all the diseases due to an abnormal excess of vayu and pittam, leprosy, visama-jvaram (malaria, kalazar, etc.), gulma, eye-diseases, anemia, excess of sleep, lethargy, aversion to food, all sorts of colic, prameha, dysentery, dropsy, bleeding, and especially piles of all sorts. It increases strength, nutrition, beauty, activity, longevity and voice. It is easily digested and is agreeable to the patient. It increases procreative power and is a destroyer of senile decay. It has been found to cure piles immediately.

चतुस्त्रिंशोविधिः । सुधा लौहम् ।

अव्यवहृतपूर्वस्य गुल्मतृण्वनस्पतेः।
रसेन दिवसे लोहं मर्दायत्वा निशा पुटेत्।
द्वादश्वर्ष लं हि नित्यमेव समाचरेत्।
अव्यव्यक्ष्य लं हि नित्यमेव समाचरेत्।
अव्यव्यक्ष्य हि रसं नित्यं प्रयोजयेत्।।
पूर्वं संमर्दितं येन तद्धरसं न पुनर्ददेत्।
एतस्य सुधालोहस्य यवमात्रं प्रदापयेत्।।
वृद्धमेव जराजीर्णं यतः स तरुणायते।
दन्तानामु गो पुनः शुक्ककेशस्य कृष्णता।।
दद्ता लोलचर्मण्यतस्यैव जायते पुनः।
स्थितं फलोदरे पक्कतां हि विनाशयेत्।।
लोहमे सुधातुल्यं मर्त्तेच दीर्घायुः दम्।
मात्रे हि प्रहीतव्या चैकविंशस न्तरे॥

Thirty-fourth process

these days In other words, the iron is to be heated by putam for 4380 times, after having been rubbed each time with the juice of the leaves of a tree. herb, or grass, which is to be used in this way for one day only, so that 4380 different kinds of vegetable juices are required to complete the process. The tree, herb, or grass which has once been used must not be used for the second time. The iron, thus incinerated, has the property of re-juvenating an old man It causes the growth of new teeth in place of fallen ones, even in old age, turns grey hair black; and makes the skin of an old man as tight as in youth Ripe fruit turns green, if a grain of this iron is kept for a few hours inside the former. One dose of this medicine is to be taken once in every 20 years

होहभस्मनः परीक्षा।
मध्वाज्य तलोहं च रूप्यसंपुटके चिपेत्।
सद्ध्वा ध्मातं ं ह्यम् रोप्यकं पूर्वमानकम्।
तदा लोहं तं विद्यान्निरुत्थं यते च तत्॥
रूप्यस्य पूर्व नस्य ह्यासेन ज्ञायतेऽमृतम्।
उत्थितं च विजानीयान् मारयेत् तत् पुनर्भिषक्॥

Test of incinerated iron.

Incinerated iron, mixed with honey and clarified butter, is to be confined in a silver samputam, and subjected to heat by putam. If in so doing, the quantity of the silver does not undergo any diminu-

tion, the ashes of the iron are to be considered actually incinerated and incapable of being restored to their original condition of un-incinerated iron. In case, the silver is found short of the original quantity, the iron is to be considered un-incinerated and capable of being restored to its original condition. In that case, it is to be incinerated again.

उत्थितलौहस्य निरुत्थीकरणम्।

(१)

अनिरुत्थं मृतं लौहं पक्तव्यं मि अकैः। यद्यं वं न्निरुत्थञ्ज सेव्यं वारितरं हि तत्॥ धु सर्पि था गुंजा टङ्कनं गुग्गुलु था। मि अकमेतत् तु गणितं धातुमेलने॥

How to deprive the askes of iron of the power of being restored to their original condition

(1)

Ashes of iron, which can be restored to their original state, should be brought to a state in which it is impossible for them to be so restored, and this may be done, if the ashes are roasted with the panchamitam, viz honey, clarified butter, gunja, tankanam, and guggulu.

(२)
गोघृतं गन्धकं लोहं खल्वे विमह्े।
दिनैकं कन्य द्रावे ्रा गजपुटे पचेत्।
इत्येवं सर्व्वलोहानां व्यं स्यान्निरुस्थितम्॥

(2)

Ashes of iron are to be rubbed in a hot mortar with cow's ghee, sulphur, and juice of kanya for one day and then heated by *Gajaputam*, resulting in the ashes being incapable of being restored to the state of original iron

अथ मृतलौहस्यामृतीकरणम्।

(१)

तो ष्ट गशेषेगा त्रि पिलप म्।

घृतं काथस्य तुल्यं स्याच् चूर्गं तुल्यं मृतायसः ॥

प येत् ता त्रे च लौहद्द्या विचालयेत्।

मृद्धाः पचेत् तावद् यावत् सर्व्वं हि जीर्थ्यते॥

लौ ल्या शिवा योज्या सु मेव तारयेत्।

यो हिमदं ख्यातं मृ गौहं महामृतम्॥

Nectarization of incinerated iron.

(1)

In a copper cauldron, heated by a mild fire, five palas of iron are to be roasted with an equal quantity of clarified butter and the same quantity of decoction of triphala (prepared by boiling five palas of triphala fruits with 40 palas of water, reduced by heating to 5 palas), the whole thing being turned by an iron ladle till the iron is completely roasted. It is then to be again roasted with an equal quantity of powdered haritaki.

(?)

गुड़स्य कुड़वे पकं लौहभस्म पलान्वितम्। कोलप्रमानं रोगेषु तच्च योगेन योजयेत्॥

(2)

One pala of incinerated iron is to be mixed by heat with four palas of iron and made into pills of the size of a plum fruit. One such pill may be used in diseases with suitable accompaniments

(३)

घृतं तुल्यं मृतं लौहं लौहपात्रे स्थितं पचेत्। जीर्णे घृते समादाय योगवाहं प्रयोजयेत्॥

(3)

Equal quantities of incinerated iron and clarified butter are to be roasted in an iron pot till the latter is dried up altogether. The iron, thus prepared, is a joga-bahi, ie a thing which increases the property of any other thing with which it is mixed

रसायनप्रयोगे छोहस्य संस्कारविशेषः।

8)

घृतमधुगुञ्जाटंकसमं लौहभस्म मई येच विचच्चगाः। धमेद्रह्यौ पुनलौ हं तदा योज्यं रसायने॥

(4)

Ashes of iron become especially fit for being used in medicines meant for preventing and curing senility, if they are rubbed with clarified butter, honey, gunja, and tankanam.

(4)

लौहारकूटताम्रकटाहे दृढ़मृन्मये वा प्रणम्य शिवम् । भस्मायः पचेदचपतः काष्ठे न्धनवहिना मृदुना ॥ निचिप्य त्रिफ जलमृदितं यत्तद् घृतञ्च दुग्धञ्च। स लय लौहमय्या दर्व्या लग्नं समुत्पाट्य ॥ मृदुमध्य रभावैः पाकस्त्रिविधोऽत्र वद्यते पुंसाम् । पित्तसमीरण्के ष्मप्रकृतीनां मध्यमस्य समः॥ त्रिविधोऽपि पाक ईदक् सर्वेषां गुग्किदेव न तु विफलः। प्रकृतिविशेषे सूचमौ युगादोषौ ज तोत्यल्पम् ॥ अभ्यक्तद[ि] गैहं सुखदुः खलनयोगि मृदुमध्यम्। उज्भितद्विं खरं परिभाषन्ते केचिदाचार्घाः। अन्ये विहीनदवीं प्रले विषत् खर ति बुवते ॥ मृदुमध्यमद्भ चूर्णं सिकतापुञ्जोपमं खरम्। विज्ञाय पाकमेवंद्रा तार्य्य चितौ चणान् कियतः॥ वि म्य तत्र लौहे हि लादेः प्रचिपेच् चूर्णम्। यदि कर्पूरप्राप्तिभवति ततो विगलिते तदुष्णत्वे चूर्णीकृतमनुरूपं चिपेत् तत् प्रयत्ततः।

ं तदश्मसारं सुचिरं घृतस्थितं गोदोहनादिभा े लौहाभावे संरच्याियम्। यदि तु परिम्नु तिहेतौ घृतमोचेताधिकं ततोऽन्यस्मिन्
भागडे निधाय रचेद्द भाठ्युपयोगो ह्यनेन महान् ॥
अयिस विरुचीभूते स्ने हिर लाघृ संपाद्यः ।
एतत्ततो ग्रेणोत्तरमित्यमुनैव स्ने हनीयं तत् ।
अत्यन्तकप्रमृतेभेच्णमयसोऽमुनैव शंसन्ति ।
केवलमपीदः शितं जनयत्ययसोग्रणान् कियतः ॥
अथवा वर्णितविधिमारितं कृष्णाभ्रमादाय ।
लोहचूर्णचतुर्थार्म्वं समद्वित्रचतुःपञ्चग्रणभागम् ॥
प्रिच्प्यायः प्राग्वत् पचेदुभाभ्यां भवेद् रजोयावत् ।
तन्मानानुकृतेः स्मृतितः स्यात् त्रि ।दिद्रव्यपरि णम्।

इदमाप्यायकमिदमतिपित्तनुदिदमेव कान्तिवल-जननम्।

स्तभ्नाति तृटचुधौ परमधिकाधि । । युक्तम् । नानाविधरुक् शान्त्ये कान्त्ये पृष्टेच शिवं

समभ्यर्चे ।

सुविशुद्धं ऽहिन पुग्ये तदमृतमादाय लौहाख्यम्। दशकृप्णलपरिमाणं शक्तिवयोभेदमाकलय्य पुनः। सममसृणामलपात्रे लौहे लौहेन मर्दयेच पुनः। दत्तृा मध्वनुरूपं तदनु घृतं योजय धिकम्॥ श्रों श्रमृतेन्द्रं भच्चयामि नमः हेति मन्त्रमुचार्य्य भच्चनीयं तत्। जग्ध्वा तदमृतसारं नोरं वा चीरमेवानुपिवेत्। कान्तकामकम ं सर्जरसं पिवेदनु। श्राचम्य च म्बूलं घनसारसहितमुपयोज्यम्॥

(5)

Incinerated iron is to be placed with decoction of triphala, milk, and clarified butter, in a cauldron made of iron, brass or copper, heated by a very mild fire made of wood, an iron ladle being used for turning the contents of the cauldron every now and This preparation may be of three kinds, viz mild, medium, and dry They are especially beneficial to patients having an excess of pittam, vayu, and kapha, respectively One having equilibrium of the doshas (vayu, pittam, and kapha) should use a preparation which is also neither mild nor dry ve. of medium softness Each of these three different kinds of preparations, although especially efficacious to patients of especial temperaments, is beneficial, at least to a certain extent, to patients in general, irrespective of temperaments. A mild preparation in this case means that in which the iron sticking to the ladle can be separated easily, a medium preparation is that in which the iron paste sticking to the ladle can be separated with difficulty; a dry preparation in this case is that in which the

iron paste is so dried as not to attach itself to the ladle altogether or to do it only to a slight extent The mild and the medium are partially powdered, whereas the dry preparation of non is in a state of sands On the completion of the preparation of the iron the cauldron is to be got down quickly from the oven, and after a few minutes, powdered triphala, etc may be mixed with the product Some camphor may also be mixed with it, when the product is sufficiently cooled. The iron, thus prepared, is to be very finely powdered, and kept with a sufficient quantity of clarified butter in an iron pot or in an earthen vessel previously used for keeping milk the clarified butter is found to be much in excess of the quantity required to keep the iron soft, a quantity of the former may be taken out and kept in a separate pot This ghee is very useful. It may be used to soften the propagation in case it loses its softness. A patient having an abnormal excess of kapha should take iron mixed with this ghee, which, even if taken alone, produces a part of the effects which are produced by iron prepared in the aforesaid wav

The incinerated iron may also be roasted in the afore-said manner, after having been mixed with decoction of triphala, clarified butter, milk, and one fourth or half or an equal or double or triple or four fold or five fold its quantity of powdered black mica, duly incinerated (see vol. II). The powder, thus prepared, is soothing to the system, destroyer of all abnormal excess of pittam, and is a giver of strength

: 11

and beauty. If taken in doses gradually increased to a large quantity every day, it does away with thirst and hunger altogether without impairing the strength and longevity of the latter. After making due obeisance to God, the medicine should be begun to be taken on an auspicious day, in doses of ten ractis a day (a dose which is modifiable having regard to the age and strength of the patient), which should be rubbed with honey and ghee in an iron mortar by an iron rod The following mantra is to be uttered at the time of taking the medicine —"Om amritendra bhakshayami nama swaha," After taking the medicine, a little of water or milk is to be taken A little after that, juice or decoction of nagaramusta, mixed with pure rala or exudation of a sarja tree, should be taken

लौहादीनां सेवनमात्रा।

गुञ्ज त्रं रसेन हे तो भ च भच्येत्।
तारं त्रिगुञ्जकं सेव्यं म्र द्विगुञ्जकम्॥
बौहाभ्रनागवङ्गानां यशोदस्य तथाने तम्।
धातृनां ते त्रा षड्गु प्रमि ख ॥
कांस्य पत्तलयो भच्चयेत् ताम्रभस्मवत्।
यवद्वयमितं लकं यवसप्तकम्।
ततो चा भिषग् दद्यान् मा वित्

Doses

The following are the doses in which mere etc are generally given —mercury, one gunja a dincinerated gold—one gunja a day, incinera silver, 3 gunjas a day, incinerated copper, 2 gun a day, iron, mica, lead, tin, zinc, and other met (each incinerated), six gunjas a day; incinera bell-metal and brass—two gunjas a day; incinera diamond, 2 javas a day, purfied or incinerated ha talam, seven javas a day. In especial cases, t physicians, having regard to the age and constitutiof the patient, should use their own discretion in t matter of doses

लौहभस्मभक्षणमंत्रः ।

ॐ अमृतेन्द्र' भक्षयामि नमः खाहा । छोहभस्मानुपानम् ।

शूले हिङ्गु घृतान्वितं मधुयुतं कृष्णा पुराण्डवरे।
वाते साज्यरसोनकः श्वसनके चौद्रान्वितं त्रूथषण्म्।
शीते व्याललत दलं समरिचं मेहे वरा सोप ।
दोषाणां त्रितयेऽनुपानमुदितं सचौद्रमाद्रीदकम्॥
धृतेन वातके देयं मधुना पित्तजे ज्वरे।
श्लेष्मपित्ते चार्द्रकेन निर्णु श्रीकृष्णां प्रदापयेत्।
शुग्रठीं वाते हि ं पित्ते कृष्णां प्रदापयेत्।
सन्धिरोगे त्रिजातकं प्रोक्तं लोहा पानकम्॥

Anupanas or accompaniments of iron

(1)

Incinerated iron is to be taken with hingu (purified by being fried with ghee) and honey in colic. with powdered pippali in chronic fever (such as malaria, kalazar, etc), with ghee and garlic juice in rheumatism, paralysis, and other diseases due to an excess of vayu, with honey and trikatu in asthma, with the juice of brischikali mixed with powdered maricha in coldness, with triphala and sugar-candy in spermatorrhoea, with honey and ginger juice in diseases due to an excess of the three doshas, with clarified butter in fever due to an excess of vavu, with honey only in fever due to an excess of pittam; with the juice of ardraka in diseases due to an excess of kapha and pittam, with the juice of nirgundi in shivering due to an excess of vayu, with powdered shunthi in diseases due to an excess of vayu; with sugar in pittam, with pippali in kapha; and with trijatakam in diseases affecting bone joints

Foot note —The general rule with regard to the taking of a mineral drug, either in the form of powdered ashes or in the form of a pill, is this — It is first of all to be rubbed in a small stone mortar with a little of honey (even when there is no mention of it, unless it is explicitly prohibited or considered harmful in a particular case) and then again rubbed with the anupanam or accompaniment prescribed. When the drug is thus sufficiently rubbed, it is to be taken by licking or drinking, as the case may be

(2)

वह्नं वह्नार्द्धमानं च यथायोगेन योजयेत्। वरया सह लौहं हि वलीपिलतनाश्नम्॥ कज्ज्वलीमधुकृष्णाभ्यां श्लेष्मरोगिनवारणम्॥ खराडया सचतुर्जातं रक्तपित्तविनाशनम्॥ पुनर्णावायुतचीरैर्वलवृद्धिकरं परम्। पुनर्णावारसेनैव पार्रोगिनसूदनम्॥ सनिशं भिततं लौहं पिष्पल्या मधुना सह। विंशतिं च प्रमेहानां नाशयेन् नात्र संशयः॥

(2)

Incinerated iron, in doses of four and half ractis, is to be taken with the following anupanams.—with triphala in senile decay; with kajvali (equal quantity of sulphur and mercury, turned into a black powder), honey, and pippali in diseases due to an excess of phlegm; with khanda gurh mixed with chaturjata in ractapittam; with cow's milk mixed with the juice of punarnava for increasing strength and vigour; with the juice of punarnava in anemia; with the juice of haridra and powdered pippali, mixed with honey, in 20 different kinds of spermatorrhoea including gonorrhoea.

शिलाजतुयुतं लोहं मूत्रकृच्छ्रनिवारणम् । वासकपिप्पलीद्राचालोहानां मधुना सह ॥ गुटिकां भच्चयेत् प्रातः पश्चकासिनवृत्तये। ताम्बुलरससंयुक्तं भच्चयेल् लौहमुत्तमम्॥ श्रिप्तदीतिकरं वृष्यं देहकान्तिविवर्द्धनम्। त्रिफलामधुसंयुक्तं सर्व्वरोगेषु योजयेत्॥ षथ्यासितालौहभस्म यथोक्तगुणदं भवेत्। वि त्र बहुनोक्तेन देहलोहकरं परम्॥

(3)

Incinerated iron may be used with shilajatu in gleet and stricture, with basaka, pippali, draksha, and honey (all rubbed together) in all sorts of cough, with the juice of betel leaves for increasing the power of digestion, nutrition, and physical beauty, with triphala and honey in all sorts of diseases, with triphala and sugar for increase of strength.

लौहसेवने पथ्यम्।

लावकस्तित्तिरिगोंधा मयूर काद्यः।

वटकः कलविंकश्च वर्त्तिश्च हरितालकः ॥

हे कश्च वो वर्ष्यविस्किरकादयः।

हितकरमृगादीनां मांसं जांगलकं शुभम्॥

मद्गुरो रोहितः श्रेष्टः श्कुलश्च विशेषतः।

मत्स्यराजा इमे प्रोक्ताः हितमत्स्याश्च ये नवाः।

^{*} कल^{िं} कः।

प्रशस्तं पापिताफलं पटोलं डिंडिसी तथा।
प्रलम्बामीरुवेत्राप्रं ताड़कं तगडुलीयकम्॥
वास्तुकं धान्यशाकं च स्वर्णालुकपुनर्णवम्।
नारिकेलं च खर्ज्जुरं दाड़िमं लवलीफलम्॥
श्रुंगाटकं च पकाम्रं द्राचालताफलानि च।
जातीकोषं लवंगं च पूगं ताम्बूलपत्रकम्॥

Dietary

The following dietary is salutary for the person who takes iron —

laba (a migratory bird—a sort of a quail), titti (the francoline partridge), godha (iguana), peacocl hare, bataka (a bird, popularly called, batkal kalabinka or chataka (sparrow), barti (a bird popularly called, 'bater'), haritala (green partridge) hawk, big laba, all sorts of deer, fresh and whole some fish, such as, madgura, rohita, and shakula vegetables like papita, patola, dindisi, eatable sprou arising inside a palm fruit, shatavari, soft blossoms of a betra plant, the soft portion inside the upper most part of a palm tree, tanduliyaka, bastu, leaves of dhanya plant, karnalu, punarnava, cocoanut, date fruit, pomegranates, lavali fruit, shringataka, ripe and sweet mango, grapes, jatiphala, lavanga, betel-nut, and betel leaves

लौहसेवने अपथ्यम् ।

(?)

नाश्चीयाल्लकुचं कोलं कर्कनधुं वदराणि च।
जम्बीरं बीजपूरश्च करमई कितिन्तिड़ीम्॥
नूपानि च मांसानि क्रकरं पुण्ड्रकादिकं।
हंससारसदात्युहमद्गुकाकवलाहकान्॥
माषकन्द गिराणि च ंच म्।
कुष्मा कंच कर्कोटिं केंबुकश्च विशेषतः॥
कदलीं लशाकश्च कशेरुं कर्कटीं तथा।
विदलानि च सर्व्वाणि ककारादींश्च वर्ज्येत्॥

Prohibitions.

(1)

The following are to be avoided dy one who takes iron—lakucha, kola, karkandhu, badara, lemon fruit, vijapura, karamarda, tintiri, meat of animals other than those enumerated in page 84, karkata bird, pundraka, goose, swan, water crow, madgu, crow, crane, masha gram, tubers of all kinds (such as potato, radish, onion, etc.), karira (shoot of a bamboo, and a thorny plant of that name), chanaka gram, kadamba fruit, kushmanda, karkoti, kebuka, banana fruit, pot herbs, kasheru, karkati, and all sorts of pulses.

(2)

कुप्माग्डं तिलतेलं च रसोनं राजिकां तथा।

मद्यमम्लरसं चैव त्यजेत् लोहस्य सेवकः॥

ऋहितमत्स्यवार्त्ताकं माषं च कारवेल्लकम्।

व्यायामं र व्वेसन्धानमासवञ्च सदा त्यजेत्॥।

ऋत्युपवेशनं जह्यात् श्रमं चैवातिभाषणम्।

नपानाशनादीनामाधिक्यं शोतवातयोः॥

ऋकालभोजनञ्जेव विरुद्धाशनमेव हि।

दिवास्वापं तथा नक्तं जागरगं सदा त्यजेत्॥

वातपित्तकृतः सर्वान् कट्टम्लतिक्ततुवरान्।

तत्त्रणनाशहेतृंश्च मेथुनकोपसं न्।

मारकं रसलोहानां सर्व्वथा हि परित्यजेत्॥

(2)

One who takes iron should avoid the following—kushmanda, tila oil, rasona, raji, wine, sour things, bad fish, jeera, vartaku, masha gram, karbella, physical exercise, all sorts of fermented things, asava, sitting for a long time, physical exertion, excess of talking, excess of bathing, drinking, eating, and exposure to coldness and wind, eating at unusual times, eating articles of food stuff which, if taken with the same meal produce injurious effects (such as milk with fish, meat, or sours); sleeping in day time, keeping late

hours at night, all things having the property of increasing vayu and pittam, things which are pungent, sour, bitter, and astringent, sexual indulgence; anger, physical exertion, and all things calculated to kill mercury and the metals

लोहव्यापन्नाशन' चूर्णम्।

जीर्गे लोहे तु पतित चूर्णं भुञ्जीत सिद्धिसाराख्यम् । लोहव्यापन् नाश्यति तदु वर्द्धयति जाठरं वहिम् ॥

Remedy of evils due to irregularities in taking metals

When incinerated iron (or any other metal) is digested in the stomach, a dose of the powder named siddhisara (described below) should be taken in order to counteract any evil arising out of irregularities committed while taking the iron (or any other metallic preparation)

सिद्धिसारः।

पथ्यासैन्धवशुगठीमागधिकानां पृथक् समं भागम् । त्रिवृताभागौ निम्बुभाव्यं स्यात् सिद्धिसाराख्यम् ॥ काले मलप्रवृत्तिर्लाघवमुदरे विशुद्धिरुद्धगारे । श्रङ्गेषु नावसादो मनःप्रसादोऽस्य परिपाके । रद्धभिद्धादशकादृर्द्धं वृद्धिरस्य भयप्रदा ॥

Siddhi sara

Powders of haritaki, saindhava, shunthi, white jeera—each equal in quantity, and trivrit, double the quantity of each of the above-mentioned, should be subjected to bhavana with the juice of lemon. Dose—I racti, to be gradually increased to 12 ractis, which should not exceed on any account. This medicine causes movement of the bowels in due time, lightness of the stomach, freedom of the belching (of wind from the stomach) from acidity and toxin, comforts of the limbs, and cheerfulness of the mind

अपकलौहस्य अवगुणः।

अल्पोषधिस्तोकपुटहीनगन्धकपारदैः। पक्कं हि लौहजं चूर्णमायुःचयकरं परम्॥

Evil effects of taking iron not properly incinerated.

Iron roasted with too little in quantity of the liquids prescribed, or by a fewer than the prescribed number of putams, or by being rubbed with sulphur or mercury of inferior quality (i.e. not properly purified), is injurious, and serves to shorten the longevity of the man who takes it.

अशुद्धलौहसेवनजनितविकारानां शान्तिः ।

मुनिरसपिष्टविड्ङं मुनिरसलीढ़ं चिरस्थितं घर्मे। इष्टर्णः लौहदोषान् वर्ह्धिनवनीतपिगडमिव॥ Remedy of the evil effects of iron not properly incinerated.

(1)

Evil effects of impure iron are removed, if one takes biranga, previously rubbed with the juice of vasaka, and exposed for a long time to the heat of the sun, mixed with a sufficient quantity of the juice of vasaka

(२)

श्रारग् मज्ञया रेचनं कीटशान्तये। भे क्ष्यितिसारश्च पीत्वा दुग्धं तु तं जयेत्॥ यदि लौहविकारेण उदरे श्लसंभवः। तदाद्र कविड़ङ्गं तु विड़ङ्गरससंयुतम्। पिवेद्वा खग धुना एलाचूणं दिनत्रयम्॥

(2)

Purgation by the oily part of aragbadha is to be resorted to for the purpose of destroying worms (growing from the use of iron, not incinerated with mercury) In case of diarrhoea being caused by the purgation, it is to be cured by the drinking of milk Colic in the stomach, due to use of bad iron, may be cured by using ginger and biranga, taken for 3 days with the juice of biranga, or by taking for 3 days powdered ela mixed with khanda gurh and honey

लौहस्य द्रावणम्।

(१)

देवदालीरसै भीव्यं गन्धकं दिनसप्तकम्। ® तेन प्रवापमात्रेग लोहं तिष्ठति सूतवत्॥

Liquefaction of iron
(1)

Sulphur is to be subjected to bhavana with the juice of devadali for seven days. This sulphur, thrown upon iron, melted by fire, makes the iron resemble mercury (even after the heat is discontinued)

(२)

सुरदालिभवं भस्म नरमूत्रेण गालितम् । त्रिसप्तवारं तत्चारं वापेत् कान्ते द्रुतिर्भवेत् ॥

(2)

A kshara or alkalı is to be prepared by dissolving the ashes of devadali with human urine, filtering it for 21 times and then drying it up by heat. A little of this alkali, if thrown upon melted kanta iron, keeps the latter in a liquefied state even after the heat is removed.

इते द्रव्यान्तरक्षेपो छौहादौ क्रियते हि यत्।
 स प्रवापः प्रतीवापस्तदेवाच्छादनं मतम्॥

(३)

गन्धकं न्तपाषागां चूर्णीयत्वा समं समम्। द्रुते लौहे प्रतीवापो देयो लौहाष्टकं द्रवेत्॥

(3)

Eight different kinds of iron can be kept in a state of liquefaction, even after the removal of heat, if equal quantities of powdered sulphur and kanta iron are put upon them, while in a melted condition.

अथ मगडूरम् (लौहिकदृम्)।

सिंहानिका च सिंहानं लौहिक हं च मग्डूरम्। प्रतापिताद घनाहताल् लौहाच् च्युतं मलं हि तत्॥ यह्नौहे यद्युगं प्रोक्तं तत् किहे तद्युगांशकम्।

त् त्र मगडूरं रोगशान्त्ये हो ते।।

दि द्दशगुगं मुगडं त् तीचगं शतोन्मतम्।
तीचगाल् लचगुगं न्तं भचगात् कुरुते नृगाम्।।
तर त् कान्तं सदा सेव्यं जराव्याधिहरं परम्।
कान्ताभावे प्रदातव्यं स्वर्णं वा रूप्यमेव वा।

Mandura.

If iron is heated red hot, and hammered, small pieces throw themselves out of it, and scatter themselves all round. These particles of iron are called mandura. The mandura of a particular

iron possesses a part of the properties of the latter. Mandura also may therefore be used in medicines. Munda iron is ten times as efficacious as mandura. Tikshna iron is hundred times as efficacious as munda, and kanta is hundred thousand times as efficacious as tikshna. Kanta iron should therefore be used for the purpose of destroying diseases and senility. In the absence of kanta iron, gold or silver is to serve as a substitute

मण्डूरस्य भेदाः।

ईषच्छिव ग्रह सिग्धं मुग्डिकहं जगुर्बुधाः। भिन्नांजनप्रभं यत् तु विशेषाद् ग्रह निर्वागम्॥ निः कोटरं च विज्ञेयं तीच्गािकहं मनीिषभिः। पिंगं हत्तं ग्रहतरं यद्र्धमवकोटरम्॥ छिन्ने च रजतच्छायं तत् किहं कान्तलोहजम्॥

Varieties of mandura

Mandura from munda iron is slightly coloured, heavy, and soft; that from tikshna iron is like a collyrium of mixed ingredients, is much heavy, and has a smooth surface. The mandura which comes out of kanta iron is of grey colour, coarse, heavier than other manduras, with half its surface devoid of hollows, and it presents a sectional surface as glazy as silver, when cut into two pieces.

मण्डूरस्य व्यवहारयोग्यता ।

अकोटरं गुरु स्निग्धं हतुं शतसमाधिकम्। चिरोत्थितजनस्थाने संस्थितं किद्दमाहरेत् ॥

Fitness of mandura for use in medicines.

The mandura which should be used in medicines should be of the following description —It is devoid of hollows, heavy, soothing, strong, of more than a hundred years' standing, and collected from an old village

्२) शतोद्धमुत्तमं किद्धं मध्यश्वाशीतिवार्षिकम्। अधमं षष्टिवर्षीयं ततोहीनं विषोपमम्॥

Mandura of over hundred years old is the best, that of over 80 years is of moderate efficacy, and that of sixty years' standing is the least efficacious. Mandura less old than the last-mentioned is like poison and should be avoided for medicinal purposes

मण्ू शोधनमारणम्। प्रथमोविधिः।

अचाङ्गारैर्धमेत् किष्टं लौहजं तद् गवां जले । निचिपेदच्पात्रस्थे सप्तवारं प्रयत्नतः ॥ चूर्णयित्वा ततः काथैद्वि गुगौस्त्रिफलोद्दभवैः॥ श्रालोड्य च धमेद वहाँ मगडूरं जायते वरम्॥

Incineration of mandura First process.

Manduram is to be heated by means of char-coal prepared from bibhitaki wood, and then immersed in cow's urine contained in a pot made of the same wood. It is then to be powdered very fine and roasted with double its quantity of decoction of triphala (by being boiled in a cauldron over fire)

द्वितीयोविधिः।

गोमूत्रैस्त्रिफला काथ्या तत् थैः सेचयेच्छनैः। लौहिकद्वं सुतप्तां तु यावजीर्यति तत् स्वयम्॥ Second process

A decoction of triphala is to be prepared by boiling it with cow's urine, Mandura, heated red hot, is to be immersed in this liquid. Repetition of this process leads to the incineration of the mandura

तृतीयोविधिः।

मगडूरं चूर्णितं श्रुच्णं गोमूत्रेऽष्टगुणे पचेत्। चूर्णितं पुनरेव तत् स्व र्येषु नियो ेत्॥ Third process

Mandura is to be powdered very fine and then roasted with eight times its weight of cow's urine. When sufficiently roasted, it is to be powdered again and used where necessary.

मण्डूरस्य व्यवहारः।

त्रूचषणं त्रिफला मुस्ता विड़ंगं चव्यचित्रकम्। दावीं यन्थि देवदारु तुल्यं तुल्यं विचूर्णे ्॥

प्रत्येकं किट्टसंतुल्यं तेन सह विमिश्रयेत्। भच्चयेत् कोलमात्रं तु जीर्णान्ते तकभोजनम् ॥ पागडुशोफहलीमं च उरुस्तम्भं च कामलाम् । अशांसि इन्ति सत्वरं हंसमगडूरकाह्वयम् ॥

Use of mandura

Incinerated mandura, mixed with an quantity of each of the following, and taken in doses of one kola (all combined) a day, cures pandu (anemia), shotha (dropsy), halima (jaundice of the worst type), urustambha (carbuncle in the thighs), kamala (jaundice), and arsha (piles) -trikatu, triphala, musta, biranga, chavya, chitraka, darvi. granthi, and deva-daru Mandura, thus used is called the hansa mandura. Butter-milk should be drunk after the medicine appears to have been digested in the stomach

ूरस्य द्रावणम् । निरसपिष्टं विडुंगं नि । विडं चिरस्थितं घम्में । ति लौहवि वहिर्नवनीतिप मिव॥

Liquefaction of mandura

Rust of iron is liquefied and assumes the shape of butter, if it is immersed in a liquid paste, made of biranga pestled with the juice of agastya and dissolved in the same liquid, and exposed for a long time to the heat of the sun

द्वितोयोऽध्यायः।

CHAPTER II.

अथ यशोदम्।

रसकस्य विजानीयादु यशोदं सत्वमेव हि । ® तदेव खलु वै नां यशोदं धीमतां परम् ॥

Jasoda (Zinc)

Jasoda is the essence of rasaka or calamine (see page 125, Vol II) Literally, it means a thing which helps the earning of fame. It is really a thing which enables a learned physician to earn reputation.

अस्य गुणाः।

यशोदं तुवरं ति ं शीतलं कफपित्तहृत्। चनुष्यं परमं मेहपा ुश्वासविनाशनम्॥

Its properties

Jasoda is astringent, bitter, cool, pacifier of kapha and pittma, beneficial to eye-sight, and destroyer of spermatorrhoea, gonorrhoea, jaundice, and asthma.

इतीयखण्डे १२५ पृष्ठं द्रष्टव्यम् ।

यशोदस्य शोधनम् ।

प्रथमोविधिः।

य गोदमिशिविद्रुतं दुग्धमध्ये तु येत्। एकविंशतिवारैश्च ततोऽयं शिद्धमानुयात्॥

Purification of Jasoda.

First process.

Jasoda is purified, if it is immersed into milk for twenty one times, after it is melted each time.

द्वितीयोविधिः।

द्वितीयखण्डे २४२ पृष्ठे खर्णशो करणे तृतीयोविधिः द्रष्ट्यः। Second process

See Process No 3, page 243 Vol II

यशोदस्य मारणम् । प्रथमोविधिः ।

द्वितीयखण्डे २४७ पृष्ठे खर्णमारणप्रकरणे चतुर्थीविधि द्रष्टयः।

Incineration of Jasoda.

First process.

See Process No 4, page 247, Vol II

द्वितीयोविधिः।

यशोदं लौहजे पात्रे दृष्टाधितः। पुनर्धमेत्।
तत्ते ऽस्मिन् चिपेन् नि बपत्रमेकं तदुपरि॥
घर्षणा गौहदगडेन वहिरुत्तिष्ठति ध्रुवम्।
य भवेद घृष्टिर्भ ॥ था तथा॥

भस्मीभृतं पृथक् पुनः गा घर्षयेत्। ब्रष्टव्यं र कतस्तावद् यावत् ं न हन्यते। क्रिक्तं तद् यथाविधिपेत्रभृत्या विमुच्यते॥ नेत्रयोगेषु सर्वेषु भस्मीभृतिमदं शुभम्। भच्गो न प्रशस्तं तदंजनार्थं प्रयोजयेत्॥ Second process.

Zinc is to be kept in an iron pot over fire, and heated highly, even after it is melted. A leaf of nimba tree is then to be thrown upon the molten zinc, which is to be rubbed with the leaf by means of an iron rod. This is followed by the rise of flames upon the molten zinc and the incineration of a part of the metal at the spot where the rubbing is carried on. Fresh nimba leaves are to be applied and the rubbing is to be continued. Wherever there is rubbing, there is incineration The part which is incinerated may be sifted out and the remaining part of the zinc again incinerated in the same way. The powder, thus prepared, should be freed from the ashes of the nimba leaves by being washed off with water. Zinc, thus incinerated, is found to be beneficial to eye-sight and may be used as a collyrium. It is not commendable for internal use

वृतीयोविधिः।

बशोदं तच्चतुर्थाशपारदगन्ध न्वितम् । मर्दयेत् खक्वके सम्य र कन्यानिम्बुरसैः पृथक् ॥

लेपयेत् तेन पत्राणि गजाह्वे पाचयेत् पुटे। एकेनैव पुटेनैवं यशोदं म्रियते खलु॥

Third process.

Fine leaves of zinc are incinerated, if they are subjected to heat by Gajaputam for once only, after having been smeared with a paste made of kajvali (mercury and sulphur, combined in equal parts), one fourth in quantity of the zinc, rubbed separately with the juices of kanya and nimbu (lemon)

यशोदमारणस्य विध्यन्तराणि।

ग प्रकारेण यशोदमपि मार्घ्यते । तयोरेव प्रकारेण शोष्टिष्टिप हि तत् ॥

Zinc may also be purified and incinerated in the same manner as vanga (tin) and sisaka (lead) *.

यशोदस्यानुपानानि ।

खर्जुरतंडुलीहिमै रक्तातिसारनाशकः । अ विनाशयेज् ज्वरं चैव यशोदं मायुजं खलु ॥ नि भ्यां युतं शीतज्वरं ेत्। शर्कराजाजिसंयुक्तमति रंविमंत ॥ पुराणघृतसंयु नेत्रह्विहारं परम्॥

अप्रे वङ्गनागप्रकरण'

[•] See page 102

यशोदं प्रमेहं हन्ति ताम्बूलखरसेन हि। अग्निमन्थेनाग्निकरं त्रि गन्धे स्त्रिदोषहृत ॥

Accompaniments of Jasoda.

kashayam (decoction prepared without the application of heat) of kharjura (dates), and tanduliya roots. If taken in this way, it also cures fever due to an excess of pittam. It cures fever accompanied with a sensation of coldness, if taken with jamani and lavanga. In diarrhoea and vomiting it should be used with sugar and jeera. It is beneficial to eyesight, if used as a collyrium with old ghee (clarified butter). It cures spermatorrhoea and gonorrhoea, if taken with the juice of betel leaves. It increases power of digestion, if taken with the juice of agnimentha. It is a destroyer of all the doshas, if taken with the trisugandhi.

यशोद्भस्मनो ।

गुंजाद्वयं तु यशोदं तालेन भिततं देत्। अन्यथा मारितं तत् तु गृहीयान् मासम कम्।

Doses of zinc.

Dose of zinc, incinerated with orpiment, is 2 ractis a day. It is six ractis a day, if incinerated without orpiment.

सदोषयशोदस्य अवगुणः।

यशोदं रोगान् प्रमेहाजीर्णमारुताः । विमं भ्रमिं होत्येतच् छोधयेन् मारयेतः ः॥

Evil effects of zinc, not properly incinerated

Zinc, not properly purified and incinerated, gives rise to the following diseases—gonorrhoea, indigestion, flatulence, vomiting, and giddiness. It is therefore to be purified and incinerated properly.

यशोद्विकारशान्तिः।

भयां सितायुक्तां सेवते यो दिनत्रयम् । यशोदस्य वि ति स किमान्नोति निश्चितम् ॥

Remedy

A man is freed from the evil effects of bad zinc, if he takes for three days bala and haritaki mixed with sugar.

अथ वङ्गम्।

वंगं रंगं कलोहं कुरूप्यं पिचटं तथा।
त्रपु च त्रपुसं चैव त्रपुषमि यते॥
स्वर्णजं नागजी दंगं गुरुपत्रकः।
चक्रसंज्ञं रञ्ज गिरं॥

मालीमकं सिंहला च स्ववेतं च तथा पुषम्। हिमं च पृतिगन्धं च संगरमपि कथ्यते॥

भेदः।

खुरकं मिश्रकं चेति द्विविधं वह्नमुच्यते । खुरं गुगौः मिश्रकं न हितं मतम् ॥ धवलं मृदुलं क्षिग्धं द्रुतद्रावं सगौरवम् । निःशब्दं खुरवङ्गं स्टान्मिश्रकं श्यामशुभ्रकम् ॥

VANGA (tin).

Its varieties

There are two kinds of tin, viz. khuraka and mishraka. The former is better than the latter which is unfit for use in medicine. Khuraka is white, soft, soothing, and capable of being melted quickly. It is heavy and melts without any noise. The mishraka variety is blackish white in colour.

गुणाः । १

वद्गः तिकोष्यकं रुचमीषद्वातप्रकोपनम् । मेहरलेष्मामयञ्ज मेदोञ्जः हिल्हित्यशनम् ॥ पाग्रहुश्वासविनाशनं पित्तलं च सरं लघु । चचुष्यं लेखनं वृष्यं विशेषान् मेहनाशनम् ॥

Its properties

(1)

Tin is bitter, warm, coarse, and a little increaser of vayu. It cures spermatorrhœa, phlegm, obesity, worms, anemia, and asthma. It is laxitive, light, improver of eye-sight, nutritious, reducer of fat, and a special curer of spermatorrhoea

(2)

दीपनपा रुचि ंशीतलम्। सौन्दर्यं विर्द्धनं हृतजरं नीरोगताकारकः॥ स्थै रं चयच्यायारं सर्वप्रमेहापःम्। भच्चयतो न भवेत् स्वप्नेऽपि शुक्रच्यः॥

(2)

Vanga, duly incinerated, is an increaser of strength, power of digestion of food, appetite, intelligence, and beauty. It produces a cooling effect on the system Duly taken, it does away with senility, diseases, and waste. It makes the dhatus stable, and cures all sorts of pramehas Taken regularly, it prevents the nocturnal emission of semen.

शोधनम्।

प्रथमोविधिः।

द्रावियत्वा निशा े चिप्तं निर्गुरि रसे । विध्यति त्रिवारेण खुरवङ्गं न संश्यः ॥

First process.

Tin is purified, if it is melted for 3 times, and immersed each time in the juice of nirgundi, mixed with powdered haridra (turmeric)

द्वितीयोविधिः।

अम्लतकवि निचिप्तं वर्षाभूवि तिन्दुभिः। कट्वावुगतं वङ्गं द्रावितं परिशुध्यति॥

Second process.

Tin is purified, if it is melted with punarnava, visha-tinduka, and katu-alabu, and immersed in sour butter milk.

तुर्वाष्टर्भेष्टः ।

शुष्यति नागवंगौ घोषावाराऽतपेऽपि निसंख्यैः। निर्गुंडोरससेकैस्तन्-ुलरजःप्रलेपेश्च॥

Third process

Lead and tin are purified, if they are smeared for seven times with the juice of ghosha only or with the juice of nirgundi mixed with the powder of its roots, and dried in the sun, each time they are so smeared

चतुर्थोविधिः।

त्रपु मूत्रवर्गेऽम्लवर्गे वहूनां जले चारतोये च

वज्रार्कदुग्धे।

ततः च्यार्क्स्यस्थ कदंबस्य नीरे शुभं चालयेत्

कं सप्तवारैः ॥

Fourth process.

Vanga is purified, if it is heated and immersed, after each act of heating, in the following:—urines, amlas, juice of arka plant, solutions of ksharas, and milks of snuhi and arka. It is then to be again heated and washed off by means of decoction of kadamba leaves

पञ्चमोविधिः।

नागवङ्गे च गलिते रविदुग्धेन सेचिते। त्रिवारैः शुद्धिम तः सच्छिद्रे हिण्डिकान्तरे॥ Fifth process.

Sisaka (lead) and (tin) are purified in the following way —Keep the metal (tin or lead) inside an earthen vessel, the lower part of which is full of pores, and heat the metal with a fire, made of char-coal, placed inside the vessel, which is to be kept upon a pot containing milk of arka. The metal, when melted, will fall through the pores. The process is to be performed for three times.

षष्टोविधिः।

मार्ड चूर्णसंयुक्ते दो यन्त्रे हि स्वेदनात्। वंग ं विशुद्धति सूदमीकृतं न संश्यः॥

Sixth process

Thin leaves of vanga are purified by being boiled for one and half hour by means of the Dola Jantram containing lime water

मारणम्।

प्रथमोविधिः।

्तालेनार्कंदुग्धेन लिप्ता वङ्गदलानि च। वोधिचिश्चात्वचः चारैर्द्याङ्मघुपुटानि च। मर्द्धात्वा चरेद्रस्म तद्रसादिषु कीत्तितम्॥

Incineration of tin.

First process,

Leaves of tin are to be smeared with haritala and milk of arka and then subjected to Laghuputam with the ashes of bodhi (called 'bauri' in Bengal) and chincha (tamarind).

द्वितीयोचिधिः।

प्रद्राज्य खर्परे ं भो शांशं रसं चिपेत्। स्वल्पस्वल्पालकं दत्त्वा रद्वाहार :। मर्दियत्वा चरेद्रस्म तद्रसादिषु कीर्त्तितः॥

Second process.

Melt some purified banga in an earthen pot placed over fire, and put upon it one sixteenth its weight of mercury Then put a little purified haritala, every now and then, upon the compound which is to be frequently rubbed by means of a stick made of vanya karpasa wood, till the compound is reduced to ashes

द्वितीयोऽध्यायः।

तृतीयोविधिः।

ाशद्रवयुक्तेन हरितालेन लेपितम् । म्रियते वंगपत्रं हि पुटेन नात्र संशयः ॥

Third process.

Leaves of vanga are reduced to ashes, if the are subjected to putam after having been smear with haritala rubbed with the juice of palasha

चतुर्थोविधिः ।

भक्षाततैलसंलितं वङ्गं त्रे वेष्टितम्। चिश्रापिप्पलपलाशका गौ याति प म्॥

Fourth process

Vanga is reduced to ashes, if it is heated by f made of chincha, palasha, and pippala wood, afthaving been mixed with oil or essence of bhallata and wrapped with a piece of cloth.

पञ्चमोविधिः।

दुग्धेन संपिष्टं सतालं पुटस ैः। वंगं हि म्रियते शुष्काश्वत्थवल्कलवेष्टितम्॥

Fifth process

Vanga is incinerated, if subjected to putam seven times after having been mixed with haritand rubbed with milk of arka plant, dry barks

aswatha tree being placed on all sides of the vanga, while confined within the samputam

षष्ठोविधिः ।

विशुद्धवङ्गपत्राणि द्रावयेद्धणिडकान्तरे ।

अपामार्गोद्भवं चूर्णं तत्तुल्यं तत्र मेलयेत् ॥
स्थूलायया लौहद्द्यां शनैस्तद्भिमद्वं येत् ।
यावद् भस्मत्वमाप्तोति तावन्मद्वं यन्तु पूर्त्त् ॥
ततस्त्वेकोक्ठतं चूर्णं क्रत्वा चाङ्गरविर्जितम् ।
नृतनेन शरावेण रोधयेच्च भिषग्वरः ।
पश्चात्तीत्राप्तिना ंवङ्गं भवेद् ध्रुवम् ॥

Sixth process.

Purified leaves of vanga are to be melted in an earthen vessel, placed over fire, and an equal quantity of ashes of apamarga is to be mixed with the melted vanga. The whole thing is to be rubbed quickly by means of the thick end of an iron rod, till the whole thing turns into ashes, which are next to be freed from powdered charcoal, and again subjected to a very strong heat by putam. This results in the incineration of the vanga

सप्तमोविधिः।

वंगं खर्परके कृत्वा चुल्ल्यां संस्थापयेत् सुधीः। द्रवीभूते पुनस्तस्मिन् चुर्णान्येतानि दापयेत्॥ प्रथमं रजनीचूर्णं द्वितीयं च यमानिका।
तृतीयं जीरकं चैव ततश्चि त्वगुद्दम ्॥
श्चरवत्थबल्कले त्थं च चूर्णं तत्र विनिःचिपेत्।
लयेदविरामं ्लौहदर्व्या च खर्परे॥
एवं विधानतो वंगं म्रियते नात्र संश्यः।
चूर्णाणि भस्मीभू नि चालयेद्द वारिणा ततः॥

Seventh process

Vanga is to be placed over fire in an earthen pot When it melts, the following powders are to be placed upon it, the whole thing being turned constantly by means of an iron ladle —turmeric, jamani, jeera, chincha bark, and aswatha bark—all of these finely powdered. The whole thing is thus reduced to ashes. The ashes of the powders are then to be washed off by means of water, leaving the white powders of vanga deposited at the bottom

अष्टमोविधिः ।

माचिकं हरितालञ्च पलाशस्वरसेन च। पिष्टा कल्केन संलिप्य वङ्गप णि मारयेतु॥

Eighth process

Vanga is incinerated, if it is subjected to heat by putam after having been smeared with a paste made of makshika, and haritala, duly rubbed with the juice of palasha leaves

नवमोविधिः।

नागवच् छोधयेद वंगं तद्वदश्वप्थिचश्रयोः।
सद्भस्म हरितालं च तुल्युमम्लेन केनचित्॥
पलाशोत्थद्रवैर्वाथ लिस्ना वङ्गं पचेत् पुटे।
उद्घृत्य दश्मांशेन तालेन सह मर्दयेत्॥
पूर्वद्रावैः सहालोड्य ्रा पुटे ्।
तद्वविंशतिपुटैः मृतं ति भस्मसात्॥

Ninth process

Both vanga and sisaka (lead) may be purified in the same way, and both may be incinerated in the following way —Ashes of aswatha and chincha and an equal quantity of haritala are to be rubbed with a sournon-metallic juice or with the juice or decoction of palasha leaves. Vanga or sisaka is to be smeared with this paste and heated by putam. When cooled, the whole thing is to be taken out of the putam, rubbed again with one tenth its weight of haritala and the liquid referred to above, and then subjected to heat by putam. Twenty such putams are to reduce the vanga (or sisaka) into ashes.

इशमोविधिः।

वंगपादेन सूतेन वङ्गपत्रं वि पयेत्। शिरीषरजनीचूर्णं कुमार्थ्याः सह पेषयेत् ॥ सूतलिप्तं वङ्गपत्रं कल्केन विलेपयेत्। हिंहाहुद् स्य ं चान्तरस्रव्नं च तराडुलैः॥ पिष्टा तत् पिरा ध्ये तु वंगपत्रं च रचयेत्। पुटे विंश्स्या म्रियते पुटैः ॥

Tenth process

Leaves of vanga are to be smeared with one fourth their weight of mercury, and then with a paste made of bark of shirisha, turmeric, and juice of kanya They are then to be put inside a paste made of rice and tamarınd seeds, and then heated by putam. Twenty such putams result in the incineration of the vanga.

एकादशोविधिः।

मृत्पात्रे द्राविते वङ्गे चिपेत् तत्र वर्चिकाम्। घर्षयेत् लौहदर्ज्या यावत् तस्मात् तनुनपात्। निः प्रदहेत् ं शी मुद्धरेत्। स्रवचि कापनोदार्थं सि ैः चालयेन् मुहुः॥ ततोऽतिनि ं वङ्ग ीषिणा। लं चित्राम्लेन विमर्दयेत्॥

ततो गजपुटे पक्ता एनरम्बेन अद्ध्येत्। ताबेन द्रश्यांशेष राममेकं ः पुटेत्॥ एवं दशपुटेः ंवंगं भवति मारितम्॥

Eleventh process,

Tin melted in an earthen pot, kept over fire, is to be rubbed, by means of an iron ladle with salt petre, gradually put upon it, till fire comes out of it and burns the whole thing. Upon the fire being put out and the pot with its contents being cooled of itself, the ashes of tin are to be freed from those of salt-petre by means of water. The ashes, thus prepared, with an equal quantity of haritalam, are to be rubbed with a sour vegetable juice, and subjected to heat by Gaja-putam. The product with one tenth its weight of haritalam is again to be rubbed with a sour vegetable juice, and again subjected to heat by putam. Ten such acts of putam will kill the tin out-right

दादशोविधिः।

माचिकं हरितालं च पलाशस्वरसेन च। पिष्ट्रा कल्केन संलिप्य वंगपत्राणि मारयेत्॥

Twelfth process.

Vanga is incinerated, if it is subjected to heat by putam, after having been smeared with a paste made of swarna-makshika, haritala, and juice of palasha.

त्रयोदशोविधिः।

त कैः कर्कटास्थिभिः शंखशुि वराटकैः। सिन्धुकपूरसंयुक्तं येदु कम्॥

Thirteenth process

Leaves of vanga are incinerated by means of haritala, rock-salt, camphor, shells of crab, conch, oyster, and cowrie. [This may be effected in one of these two ways —(1) Molten vanga may be roasted with the powder of the things specified, the ashes of which may be washed away afterwards, or (2) Leaves of vanga may be heated by putam after having been smeared with a paste of the things specified.]

चतुर्वशो ः। भद्घाततोयेन पि्वा वंगं विलेपयेत्। ततस्तिलखिलमध्ये ्वा पुटे पचेत्। एयेर्जायते चत्वारिं प्रं कैः॥

Fourteenth process.

Vanga is incinerated, if it is heated by Gaja putam for forty times, after having been smeared each time with a paste made of bibhitaki and decoction of bhallataka and covered on all sides by means of sesamum cakes.

: 1

वंगभस्म समं कान्तं व्योमभस्म च तत्समम् ।
मर्वयेत् कनकाम्भोभिर्निम्बपत्ररसैरिप ॥
दाड़िमस्य मयूरस्य रसेन च पृथक् पृथक् ।
भृणालावर्त्तभस्माऽथ विनिःचिष्य समांशकम् ॥
गोमूत्रकशिलाधातु ैः सम्यग् विमर्दयेत् ।
ततः गुग्गुलुतोयेन मर्दयित्वा दिनाष्टकम् ॥
विशोष्य परिचृण्याऽथ समभागेन योजयेत् ।
अष्टबब्ब्रिनिर्यासैराह्द्विद्यिह्यूर्णकैः ॥
ः चिपेत् करं तर्विधाय पटगालितम् ।
गोतकपिष्टरात्रीणां सारेण सह दापयेत् ।
धातुर्गाद्धारं चै प्रमेहकुलनाशनः ॥

Vanga-kalpa.

Tin, kanta iron, and mica—all equal in quantities and reduced to ashes, are to be rubbed with the juices of leaves of kanaka dhutura, nimba, pomegranate, and apamarga, respectively and separately. Incinerated rajavarta, * equal in quantity to the tin, is then to be mixed with the compound, referred to above, and the whole thing is to be rubbed well with cow's urine, and shila-jatu dissolved with water.

^{*} घृष्टं बन्धूकनिर्यासैर्नाकुळीबीजचूर्णकैः । इत्येतत् पाठान्तरम् ।

^{*} See chapter on gems in the present volume

The product is then to be rubbed for eight days with guggulu (duly purified by means of being boiled in a Dola-Jantram with the decoction of guruchi, dashamuli, or triphala), dissolved with water. It is then to be dried, powdered, and mixed with an equal quantity of gum of babbula (acacia), fried by heat and reduced to powder, and with the same quantity of the powder of akuli (nirmali) seeds. The whole thing is then to be finely powdered and sifted by means of a piece of cloth and kept carefully. This medicine cures all sorts of meha and prameha, if taken with the juice of turmeric, pestled with butter-milk (prepared from cow's milk).

चतुर्भिर्वञ्ज तुल्यमेतद् वंगं र म्। निश्चितं तेन नश्यन्ति मे विंशतिभेदकाः॥ शा ो मुद्दगसूपं च तितं तिलोद्भवम्। पटोलं ति ुंडीरं पथ्याय शस्यते॥

This preparation of vanga, taken in doses of 12 ractis a day, serves as a destroyer and preventer of sensity. It also cures all sorts of diseases relating to the semen. The following diet should be taken by the user of the preparation —shali rice, juice of mudga pulses, butter, sesamum oil, patola, gopalakarkati, and butter milk.

अपामार्गस्य मूलेन षगढत्वं नाश्येद् ध्रुवम् । देवपुष्पसमायोगात् समुद्रफलयोगतः। गपत्ररसैि ं शिक्षवृद्धिकरं परम् ॥ गोरोच वंगेन ति को मोहनं भवेत। एरगडमूलि योगादु घर्षयित्वा च वंगकम्॥ ल टे लेपन ैव शीर्षगदः प्रशाम्यति॥ कौब्जेऽपामार्गमूलेन भ्रीहि ं सत्तंयुद्धाः। रसोन े युङ् यमपर रनिसूदनम्॥ पुत्राप्त्यै रासभीचीरै काट्यं ७७म-ुत् । य नि युतं वाते वाजिगन्धायुतं तु वा ॥ गोदरे त्वजाचीरसंटतं गुण्कुद्द भवेत्। जातिफलाश्वगन्धाभ्यां कटिपी निवारणम्॥

Accompaniments of vanga.

Vanga cures bad smell coming out of the mouth, if taken with camphor. It is nutritious and retainer of semen, if taken with jatiphala In diseases relating to the semen, it is to be used with the juice of tulashi leaves. It is to be used in anemia with clarified butter, in gulma with tankanam, in amlapittam (acidity and biliousness) with haridra, for increase of strength with honey; in an excess of

pittam with sugar-candy; for an increase of semen, with juice of tambula (betel leaves), in loss of digestive power, with pippali, in asthma or gasping, with haridra, with juice of champaka flower, in bad smell coming out of the body, with juice nimba leaves in inflammation of the body, with musk, in diseases due to an excess of vayu, with juice of khadira in skin diseases, with betel nuts in indigestion, with butter in the decay of bones, with milk for nourishment, with bhanga (bhang), etc, for retention of semen, with the juice of rasona (garlic), in diseases due to vayu, in leprosy with samudra fruit mixed with the juice of nirgundi, with the root of apamarga, in impotency, for increase of growth of the penice, it should be used as a paste with lavanga, samudra fruit, and juice of betel It produces a sort of hypnotising power in the man who uses it as a tilaka (a mark with sandal paste, etc., on the forehead) It cures head diseases, if applied on the forehead as a paste made with eranda rocts and water It is to be used with apamarga roots in hunch-backedness, with tankanam in enlargement of spleen It cures hysteria, if used as a snuff with rasona and sesamum oil It is to be used with the milk of ass for the purpose of conceiving or begetting a male child, with butter-milk in gulma due to an excess of vayu, with jamani or ashwagandha, in diseases due to an excess of vayu; with goat's milk in dropsy; and with jatiphala and ashwagandha in sciatica

शोधनमारणहीनवङ्गस्य अवगुणाः।

(१)

पाकेन हीनः खलु वंगकं हि कु नि गुल नि बहुंश्च रोगान्। पागड्प्रमेहापचिवातरक्तं बलापहारं कुरुते नराणाम्॥

Evil effects of vanga, not properly purified and incinerated

(1)

Vanga, not properly purified and incinerated, gives rise to various diseases such as leprosy, gulma, anemia, spermatorrhœa and gonorrhœa, scrofula, vata-racta (leprosy of a mild type), and loss of strength.

(१)

वंगं विधत्ते खलु शुद्धिहीनमाचेपकम्पौ च वि गुल्मौ।

कुष्टानि शूलं किल वातशोथं पाग्डु प्रमेहञ्च

भगन्दरञ्च ॥

विषोपमं रक्तविकारहन्दं चयञ्च क्रच्छ्रानि कफज्वरञ्च। मेहाश्मरीकिद्रधिमुष्करोगान् नागोऽपि क्रर्यात् कथितान् विकारान्॥

(2)

Vanga as well as sısaka, not properly purified and incinerated, gives rise to the following .—spasm, shivering, kılasha, gulma, kustha, colic, dropsy,

anemia, prameha, fistula, impurities of the blood, phthisis, obstinate fever due to an excess of kapha, stone disease, and tumour.

वंगवि ान्तिः।

मेषश्वर्ङ्गीसितायुक्तां सेवते यो दिनत्रयम्। वंगदोषविमुक्तोऽसौ सुखं जीवति नवः॥

Remedy

A man is freed from the evil effects of vanga, prepared improperly, if he takes for three days mesha-shringi (powder or decoction) with sugar or sugar-candy

अथ नागम्।

सीसं ंच ंच योगेष्टं सीसकं ना । कुवंगं च कुरंगं च द्विरद्सर्पनाम ।।

सीसकस्य गुणाः।

सीसं रंगगुगं ज्ञं यं विशेषान् मेहनाशनम्।
सितिकः धुरो नागो मृतो यदा तु भ त्।
आयुःकीतिंवीर्यवृद्धिं ऐति सेवनात् सदा॥

Sisaka (Lead.)
Its properties
(1)

The properties of lead are similar to those of tin. It is especially efficacious in diseases affecting the semen. It is bitter and sweet in taste

(२)

नागस्तु नागश्ततुरू सं ददाति
व्याधिं विनाशयति जीवनमा गोति ।
विह्विं प्रदी ति मबसं करोति
मृत्युं च नाश्यति सन्ततसेवि : सः ॥

(2)

When incinerated, it increases longevity, semen, power of digestion of food, and procreative energy, if taken regularly and for a long time.

(३) अत्युष्णं सीसकं स्निग्धं तिक्तं वात पहम्। ेहतोयदोषघ्नं दीं मवातनुत्॥

(3)

Lead produces a very hot sensation in the system It is soothing, bitter in taste, destroyer of vayu, kapha, prameha, and rheumatism, and increaser of power of digestion.

(४) सित मधुरो नागो त य र गिपरः। रुखाधुर्वीर्घ्य नं गेति से सदा॥

(4)

Lead is bitter and sweet in taste. It is a good dyer of silver. By constant use, it increases memory, longevity, and semen.

(4)

च्चयवनविकारे गुल्झ्यास्ट्यस्येषु । १,११६५६:१८४६:शूले मेहकासामयेषु ॥ ग्रह्सीगुदगदे वै न हो प्रशस्तः । शुभविधिकृतनागः कामपुष्टिं ददाति ॥

(5)

Lead, incinerated in the best way prescribed, is efficacious in phthisis, diseases due to vayu, gulma, anemia, giddiness, worms, colic due to an excess of phlegm, spermatorrhæa, chronic diarrhæa, diseases affecting the rectum, and loss of the power of digestion. It also serves as an aphrodisiac.

शुद्धसीसस्य परीक्षा ।

द्रुतद्रावं महाभारं छेदे कृप्णं सन्ज्ञलम्। पूतिगन्धं बहिः कृष्णं शुद्धसी तोऽन्यथा॥

Test of lead free from alloy

Lead is to be regarded free from alloy, if it melts quickly, weighs heavy, and presents a black and bright sectional surface at the place where it is cut into two pieces.

अस्य शोधनम् । गोविधिः ।

निर्गुषडीमूल ्र्योन चार्कदुग्धेन लेपयेत्। नागपत्रं परिशुष्कं वियत्वा निषेचयेत्॥

निर्गुगडीद्रवमध्ये तु ततः 'तु कारयेत्। लिप्त्या व्यं पुनः सेच्यं वारं विशुद्धये॥

Purification of Lead.

Lead is purified, if it is made into leaves, smeared with powdered nirgundi roots rubbed with milk of arka, and then dried, melted, and immersed into the juice of nirgundi, the process being performed for seven times

द्वितीयोविधिः।

निशा तुम्बुरुबीजानि कोकिलाचं कुठारि ।
गौरीफ म्लिका चगडी जूद्रब्राह्मी च जीरकम्॥
यथालाभेन भस्मेषां वज्रीचीरेगा भावयेत्।
तन्मध्ये निहितं नागं शुद्धे च स्वेद्यं तु सप्तधा॥
Second process.

Leaves of lead are purified, if they are smeared with a paste made of the milk of snuhi and the ashes of as many as available of the following, and then heated for seven times, after having been smeared with the paste each time—haridra, green dhanya seeds, kokilaksha, kootharika, amalaki, chincha, redrose, small brahmi, and jeera

तृतीयोविधिः।

घोषारनागवंगं हि तापितं स ारतः। चिर्मुगडीर ध्ये तु विशुध्यते निमज्जितम्॥

Third process

Bell-metal, brass, lead, and tin are purified by heating and immersing them into the juice of mirgundi for seven times.

चतुर्थोविधः।

सिन्दुवारजटाकान्तीहरिद्राचूर्णकं चिपेत्। द्रुते नागेऽथ निर्गुग ाहि रं निचिपेद् रसे। नागः शुद्धो भवेदेवं मूर्च्छा होटादि नाचरेत्॥

Fourth process

Powdered root of nirgundi, barahi-kanda, and haridra are to be thrown into molten lead which is then to be immersed into the juice of nirgundi for three times (after having been melted each time) Lead, thus purified, does not give rise to hysteria, boils, etc

मोबिधिः।

गलिते नागवङ्गे च चिप्ते सच्छिद्रे खर्परे। निषेचिते खेदुं भे त्रिवारेण विशुध्यति॥

Fifth process

Lead as well as tin is purified, if it is melted for three times and immersed each time through an earthen pot full of pores, into the milk of arka

षष्ठोविधिः।

नागवङ्गौ विगलितौ त्रि त्रि नि ्। तैले ेच काञ्जिके क ेच कुलत्थजे। रविदुग्धे निर्मेणेय गोरेव विशुद्धये॥

Sixth process.

Lead as well as tin is purified, if it is immersed for three times in each of the following, after having been melted each time—oil, butter-milk, kanji, decoction of kulattha, and especially, milk of arka plant.

सप्तमोविधिः।

त्रिकज ये वा कुल्लिक्ट वा करिक्टिक के वा गालयेत सप्तवारम्। खदिरदहनतप्त लौहपात्रस्थितं स्थात् तदनु सपदि नागः जायते शुद्धभावः॥

Seventh process.

Lead is purified, if it is melted for seven times in an iron pot by a fire made of khadira wood and immersed each time either in the decoction of triphala, or in the juice of kanya, or in the urine of elephant.

मारणम् । प्रथमोविधिः ।

श्रत्थिचंचात्वग् चतुरं ः। चिप्त्वा चु ं त् पात्रे च येल् लौहयष्टिना॥ यावद् भ भवेत् तद्य भस्मतुल्यं मनःश् । जम्बोरैरारनालैर्वा पिष्टा ्वा पुटे पचेत्॥ स्वांगशैत्यं पुनः पिष्टा विंशत्यंशैः शि कैः। एवं पड़िभः पुटैः पाको नागं कुर्यात् निरुति म् ॥॥

Incineration of Lead.

First process

Leaves of lead are to be roasted with one fourth their quantity of the ashes of the barks of aswattha and chincha, in an iron cauldron, turned by an iron rod, till the whole thing turns into ashes. These ashes are to be rubbed with an equal quantity of manas-shila and lime juice or aranala and subjected to heat by putam. When cooled of itself, the contents of the putam are to be taken out and subjected to heat by putam for six times, after having been rubbed each time with one twentieth their weight of manas-shila and a sufficient quantity of a sour vegetable juice

क्रितीयोविधः।
अथवा नाम्प्रमास्ति चूर्णिति नि खर्परे।
अत्यम्भी पाचयेद् यामं तद्भस्म ि कद्भवैः॥
भर्जयेल् लौहजे पात्रे चालितं पार्थदगढकैः।
यामधोद्धराष्ट्रकेन्द्रं द्रवो देयः पुनः पुनः॥
पाकान्ते सर्वमुद्धृत्य मर्दयेच्चित्रकद्भवैः।
गोलिथित्। विमारयेत् षड्भि ुपुटैश्च तत्॥

षड्मिः पुटैः इत्येतस्य स्थले षष्टिपुटैः इत्येतत् पाटान्तरं द्रष्टव्यम् । 126

Second process.

Leaves of lead are to be smeared with a sufficient quantity of slaked lime and heated in an earthen pot by a very strong heat for three hours. The ashes, thus prepared, are to be roasted with a decoction of chitraka roots for forty eight hours, being turned all the while by means of a branch of an arjuna tree, fresh decoction being poured into the vessel every now and then. The ashes are next to be subjected to heat by laghuputam for six times, after having been rubbed each time with a decoction of chitraka roots.

तृतीयोविधिः।

चिंचाचकेचुभह्वातव ल भवैः।

मार्गाष्ट्रधाश्वत्थभस्मभिर्भर्जयेद दृद्म्॥

सप्ताहं नियतं परिचालितम्।

पलाश्तरुद्रग्डेन म्रियते त्र संश्यः॥

Third process

Leaves of lead are incinerated, if they are fried steadily in an iron cauldron with the ashes of chincha, bibhitaki, ikshu (sugar-cane), bhallataka, bala, asthisanhara, apamarga, arjuna, and aswattha, for seven days continuously, being turned constantly all the while by means of a palasha rod.

चतुर्थोविधिः।

कुनटी माचिकं ै सम गं रयेत्। अर्कपर्णेन तत् पिष्टा सीसपत्राणि मारयेत् ॥

Fourth process

Leaves of lead are incinerated, if they are subjected to heat by putam after having been smeared with a paste made of an equal quantity of manassila and makshika, rubbed with the juice of arka leaves.

पञ्जमोविधिः ।

हतमुत्थापितं सीसं दशवारेगा सिध्यति । तन्मृतं सीसकं सर्वदोषमुक्तं रसा म् ॥ %

Fifth process

Lead, killed and revived for ten times, is to be killed once more. The ashes, thus obtained, are freed from all defects and serve as a medicine which prevents and cures senility.

षष्ट्रोविधिः ।

श्रित्हरू रविदुग्धेन ाणि लेपयेत्। माररेत् पुटयोगेः निरुत्थं यते त ॥

[#] धातूनामनिरुत्र⁻ं केनचिद्म्छरसेन सार्डं मर्दितं ध्मापितं च पूर्वाकारमवाप्नुयात्। यथा हि-क्षारा मु सर्वे : प्रबोधका: ।

Sixth process.

Leaves of lead are incinerated absolutely, if they are subjected to heat by putam after having been meared with manas-shila, rubbed with the milk of he arka plant. Such ashes are rendered incapable of being restored to their original condition.

सप्तमोविधिः।

त्रिभिः म्भिपुटैर्नागो वासारसविमर्दितः। सिश्लो भस्मतामेति तद्रजः सर्वमेहनुत्। Seventh process

Lead is incinerated, if it is rubbed with the juices f kumbhi (a kind of water plant), vasaka leaves, nd manas-shila, and then subjected to heat by utam for three times.

अष्टमोविधिः।

एकोभागोऽहिफेनस्य नागभागचतुष्टयम् । घर्षणान् निम्बकाष्टेन मन्दवहिप्रदानतः। नागभूतिभवेत् सिता वीर्यदार्ट्यं करी म ॥

Eighth process.

Four parts of lead and one part of opium are to heated together by a mild heat, and rubbed connuously, while heated, by a rod made of nimba ood. This results in the reduction of the lead to hite powder, which, taken in proper doses, strengiens semen.

नवमोविधिः।

कुड़वं नागपत्राणां कुनट्याः स्यात् पलार्छ कम् । तगडुलीयरसैर्यामं यामं वासारसैस्तथा ॥ संमर्घ चिक्रकां कृत्वा घर्मे संशोष्य तां पुनः । शरावसंपुटे कृत्वा पचेद्व वन्योपलैर्भिषक् ॥ एवं सप्तपुटैर्नागो भस्मीभवति निश्चितम् । द्विगुंजोऽयं ध्रुवं हन्यात् प्रमेहानखिलान् गदान् ॥

Ninth process

Sixteen tolas of leaves of lead and two tolas of manas-shila are to be rubbed for three hours each with the juices of tanduliyaka and vasaka, and made into cakes which are to be dried in the sun and heated by putam. Performance of this process for seven times results in the incineration of the lead which, taken in doses of two ractis a day (with honey and juice of turmeric, etc.) cures all sorts o prameha (gonorrhea).

दशमोविधिः।

नागं खर्परके निधाय कुनटीचूर्णं ददीत द्रुते । निम्बूत्थद्रवगन्धकेन पुटितं भस्मीभवत्याशु तत् ॥ एवं तालकवापतस्तु कुटिलं चूर्णीकृतं तत् पुटेत् । गन्धाम्लेन समस्तदोषरहितं योगेषु योज्यं भवेत् ॥

Tenth process.

Powdered manas-shila is to be mixed with lead, when melted in an earthen vessel. It is then to be powdered and subjected to heat by putam, after having been rubbed with sulphur and lemon juice. This results in the lead being reduced to ashes very soon. Powdered haritalam may be used in lieu of manas shila.

एकाद्शोविधिः।

(हरिद्भस्म)

खर्परे तापितं नागं रिवमुलेन घर्षयेत्। यामत्रिकैभवेद्दभस्म हरिद्वर्णमदूषणम्॥

Eleventh process.

Lead, heated in an earthen pot, is to be rubbed with the roots of arka plant for three hours, after which it is reduced to powder of a green colour.

द्वादशोविधिः ।

(पीतभस्म)

शिलागन्धककर्पूरं कुंकुमं मद्येत् म्। जंबीरस्य द्रवैर्यामं तत्समं नागपत्रकम्॥ लिस्वा लिस्वा पुटे पाच्यं यावत् षष्टिपुटं भवेत्। तन्नागं विदुचदाभासं जायते नात्र संशयः॥

Twelfth process

Leaves of lead are reduced to ashes of a yellowish colour, if they are subjected to heat by putam for sixty times, after having been smeared each time with minas shila, gandhaka, karpura, and kunkuma, ill combined being equal in quantity to the lead, rubbed with lime juice for three hours.

त्रयोदशोविधिः।

Thirteenth process.

On an oven of slanting shape place a vessel which also is of slanting shape. All parts of the latter, except its mouth, are to be coated with mud This apparatus is called the Bhrista Jantra.

Pour 20 palas of lead into this vessel, and heat it by a very strong fire. One tola of purified mercury is to be poured into the lead, when melted, the whole thing being rubbed by means of an iron rod. One pala of the kshara of each of the following is to be put, one by one, on the lead, and the rubbing is to be continued —arjuna, vibhitaki, mango tree, pomegranate tree, and apamarga. The roasting is to be carried on in this way by a strong heat for 20 nights, resulting in the reduction of the lead into ashes of red colour or of a colour resembling that of a pigeon.

चतुर्दशोविधिः।

तांबूलरससंपिष्टः शिलालेपात् पुनः पुनः । द्वात्रिंशद्भिः पुटैर्नागो निरुत्थो याति भर ाम् ॥ Fourteenth process.

Lead is incinerated, if it is subjected to heat by putam for thirty two times, after having been smeared each time with a paste made of manas-shila, rubbed with the juice of tambula (betel leaves).

पञ्चद्शोविधिः । (नागसिन्दुरः)

ुमारीपादघातेन तत्च्यान् म्रियते फणी। पुटेन शृज्दोजापि सिंदूरः केवलं भवेत्। तारे तथा वंगे ततो वेधी भवेद भूवम्॥

Fifteenth process.

Powdered lead is reduced to ashes of red colour, if it is subjected to putam for hundred times, after having been rubbed with the juice of the root of kanya each time it is so heated. Such ashes may transform silver, copper, and tin into gold

षोड़शोविधिः।

(नागसिन्दूरः ।)

भूडाठाठाद्ध्य शि पिष्ट्वा पात्रं विलेपयेत्। वा पामार्गजं चारं तत्र नागयुतं चिपेत्॥ चतुर्थांशप्रमानेन वासादर्व्या विघट्टयेत्। यामैकेन भवेद्भस्म वासकस्वरसान्वितम्। भर्दरेत् पुटयेचेव नागसिन्दूरकं हि तत्॥

Sixteenth process.

The inner surface of a pot is to be coated with a paste made of earthworms and leaves of vasaka. Into this vessel is to be placed some lead with one fourth its quantity of ksharas, prepared out of vasaka and apamarga plants (duly burnt, dissolved with water, filtered, and then dried). The vessel is then to be placed over fire and the lead with the ksharas to be turned constantly by a ladle made of the vasaka plant. This will result in the incineration of the lead, in course of three hours only The ashes, thus prepared, are to be rubbed with the juice

of vasaka leaves, and subjected to heat by putam. They will thus assume the colour of red vermilion.

सप्तद्शोविधिः । (नागसिन्दूरः ।)

भुजंगममगस्त्यस्य पत्रं पिष्टा प्रलेपयेत्।
तत्र संविद्रुते नागे वासापामार्गसंभवम्॥
चारं वा मिश्रयेत् तत्र चतुर्थांशं प्रतः।
प्रहरं पाचयेच् चुल्ल्यां वासाद्व्यां च घटितम्॥
तत उद्धत्य ूर्णं वासानीरैविमर्द्येत्।
पुटेत् पुनः समुद्धृत्य तेनैव परिमद्द्येत्॥
एवं सप्तपुटेर्नागः सिन्दूरो जायते घुवम्।
पादांशदरदेन च युक्तोऽयं जायते वरः॥

Sevent enth process.

Lead is to be smeared with a paste made of the leaves of vasaka. It is then to be melted and roasted for three hours with a decoction of vasaka and apamarga or one fourth its quantity of a kshara (alkali) prepared out of the ashes of vasaka and apamarga *, a branch of a strong vasaka tree being used as a ladle to turn the preparation. The ashes are then to be subjected to putam for seven times, after having been rubbed each time with the juice of vasaka. The product is sindura or red.

^{*} The process of preparation of ksharas will be described later in the present volume

It gains in efficacy, if mixed with one fourth its quantity of hingula (duly purified).

अद्यादशोविधिः । (नागसिन्दरः ।)

पादां भूनागितसं नागं विशोषयेत्।
तद्भागंडे वयेद् यत्नाद् दृढ़े भागंडे विनिचिपेत्॥
वासाचिवि योः चारं वासादले विघट्टयेत्।
ैं पाचयेच् चुल्यां समुद्धृत्य विमिश्रयेत्॥
ूर्ष प्यैर्वासकचारसंयुतैः।
तुल्यं पूर्व गैरेकविंशतिधा पुटेत्।
द्विपुटं चिश्रिटाचारदेंयं वासारसेः सह।
ें सिन्दूरवर्णाभं म्रियते कार्च्यत् ॥

Eighteenth process.

Lead is to be dried after having been smeared with one fourth its quantity of vasaka leaves rubbed with earthworms. It is then to be melted and kept in a strong pot. Ksharas of vasaka and apamarga are to be rubbed with the leaves of vasaka and then heated for three hours by fire. These ksharas are to be mixed well with the lead (finely powdered). The powder, thus prepared, is to be subjected to heat by putam for 21 times, after having been mixed each time with manas-shila, swarnamakshika, and kshara of vasaka, these three combined being equal to the

original quantity of the lead. The product is again to be subjected twice to heat by putam after having been rubbed each time with the juice of vasaka. The product is red vermilion.

नागामृतम्।

(१)

पलद्वयं मृतं नागं हिंगुलं च पलद्वयम् । शिला कर्षमिता ह्या सर्वतुल्यं हि गन्धकम् ॥ निम्बुनीरेण ततो गजपुटे पचेत् । तदा नागेश्वरोऽयं स्यान् गराजसुतोपमः । सस्ते मारिते नागे न देयं गन्धहिंगुलम् ॥

Nectarization of lead.

(1)

Two palas of lead incinerated (without the help of mercury), an equal quantity of hingula, and one tola of gandhaka—all of these are to be rubbed with the juice of nimboo (lime fruit), and subjected to heat by Gaja putam. Thus treated, lead becomes very powerful.

(२)

वैधं गोद्भवं ताप्यभस्मा भागिकम्। पादं पादं चिपेदुभस्म स्वस्य विम य च॥ It cures eighty different kinds of diseases due to an abnormal excess of vayu, and especially dhanus-stanbha (titanus), those due to an abnormal excess of phlegm, all sorts of urinary diseases, asthma, kapha, phthisis, anemia, dropsy, fever accompanied with a sensation of coldness, and hydrocele.

नागस्य अनुपानम्।

मृतं नागं सितायुक्तं मायुं वायुं शिरोव्यथाम् । नेत्ररोगं शुक्रदोषं ।पं प्रदाहं जयेत् ॥ प्रददाति रुचिं कामं वर्द्ध येत् पथ्यसेविनः । स्वबुद्धचा कल्पयेद् धीमान्ननुपानं गदेषु च ॥

Accompaniments of lead.

Incinerated lead, if taken with sugar, can cure pittam, vayu, head-ache, eye-disease, diseases affecting semen, delirium, inflammation, loss of appetite, and loss of sexual desire, provided there is nothing to be objected to in the diet taken by the patient.

शोधनमारणहीननागस्यावगुणाः।

कुष्टानि गुल्मारुचिपागडुरोगान् चयं कफं रक्त-विकारकृच्छूम् । स्मरीश्रुलभगंदर ंनागं त्वपकं कुरुते नरागाम्॥

End effects of lead, not properly purified and incinerated

Land, not incinerated in the prescribed way, gives rise to leprosy, gulma, loss of appetite, anemia, phthisis, phlegm, troublesome impurities of the blood, fever, stone disease, colic, and fistula

नागदोषशान्तिः।

हेम्ना हरीतकीं खादन् सि युक्तां दिन म्। पंकनागदोषेण विमुक्तः मेधते॥

Remedy.

One is freed from the evil effects of lead, not properly incinerated, if one takes incinerated gold with haritaki, (one fourth of a tola in weight), and sugar for three days.

तोयोऽध्यायः ।

अथ मिश्रधातवः।

अथ पित्तलम् । अस्य नामानि ।

पि ारकूटश्च द्रव्यदारु रीतिस्तथा।
मिश्रश्च पतिकावेरः पिंगला पीतलोहकः॥
ग्रारश्च कपि चद्र वर्णं सिंहलं तथा।
पीतलकं च पीतकं पिङ्गलधातु लोहितम्॥

अस्य भेदाः।

रीतिका द्विविधा को तत्राद्या राजरीति ।

रौति द्वितीया सा कतुग्डी च कथ्यते ॥
संतप्ता काञ्जिके चि । मा राजरीतिका ।

एवं या यते कृष्णा काकतुग्डी । हि ॥

यशोदं द्विग्रगं म्रं विते राजरीतिका ।

जायते ब्रह्मरीति ना गेगतः ॥

तिक्ता राजरीति रुचा जनतुन्नी र पित्तनुत् ।

वस्तिविशोधिनी योगात् सोष्णवीर्थ्या च शीत ।

कतुग्डी गतस्नेहा तिक्तोष्णा पित्त त्॥

यकृत्मीहहरा सा च शीतवीर्थ्या प्रकीर्त्तता। रीतिकायुगलं पागडुरोगन्नं कृमिनाशनम्॥

CHAPTER III

MIXED METALS

Pittala (Brass).

Its varieties

Riti or Pittala is of two kinds, viz. (1) raja-riti and (2) brahma-riti or kaka-tundi. Raja-riti is that variety of brass which assumes the colour of copper after it is heated and immersed in kanji. Brahma-riti or kaka-tundi is that variety of copper which assumes a black colour, if treated in the afore-said way. Raja-riti consists of two parts of copper and one part of zinc, whereas brahma-riti is the product of copper, zinc, and lead.

Raja-riti is bitter, coarse, destroyer of worms, curer of hemorrhage, and purifier of the abdomen. It is cooling, but produces heat in the system, if combined with other materials

Kaka-tundi is coarse, bitter, warm in its immediate effect, but cooling afterwards, destroyer of kapha and pittam, and curer of diseases affecting the spleen and the liver

Both the varieties are curer of anemia and worms.

शुभाशुभिक्त णम्। गुर्वी मृद्धी च पीताभा रांगी ताड़नचमा। सुक्षिग्धा मस्ट्रणाङ्गी च रीतिरेतादृशी शुभा॥

पाग्डुपीता खरा रुचा वर्वरा ताड़नाचमा । पूतिगन्धा तथा लघी रीतिर्नेष्टा रसादिषु ॥

Characteristics of good and bad brass.

Good brass is heavy, mild, yellowish, full of substance, malleable, soft, and smooth Bad brass is blackish yellow, rough, course, ugly, brittle, yielding bad odour, and light Such copper is not fit for being used in medicines.

ि शोधनम् । प्रथमोविधिः ।

पित्तलं च तथा ंस्यं त न् मारयेत् पृथक्। ता च्छोधनं तेषां ताम्रवदु गुणकारकम्॥

Purification of pittala (brass)

Brass as well as bell-metal is to be purified and incinerated in the same way as copper

द्वितीयोविधिः।

त चिप्ता च निर्गुगडीरसे श्यामारजोऽन्विते। पञ्चवारेगा संशुद्धिं रीतिरा ति निश्चितम्॥

Second process

Brass is purified, if it is heated for five times and immersed each time into the juice of nirgundi, mixed with powdered turmeric.

तृतीयोविधिः।

त्रिचारं पञ्चलवनं सप्तधाम्लेन भावयेत्। कांस्यारकूटपत्राणि तेन कल्केन लेपयेत्। ततो गजपुटे पा त् शुद्धिं यान्ति न संश्यः॥

Third process.

The three ksharas and five salts are to be sub jected to bhavana for seven times with a sour regetable juice. Leaves of brass and bell-metal are then to be smeared with the paste, referred to above, and subjected to heat by Gaja-putam. This results in the purification of the leaves.

चतुर्थोचिधिः।

सुवर्णरीतिकाचूर्णं भिचतं विष्ठितं पुनः । छागेन कृष्णवर्णेन मे तरुणेन च ॥ तिक्कितं खर्परे दग्धं द्रुतं ञ्चति शोभनाम् । चतुर्दशलसद्वर्णसुवर्णसदृशच्छविम् । देहलोहकरी प्रो । युक्ता रसरसायने ॥

Fourth process.

A lusty young goat of black colour is to be fed with powdered brass of an excellent colour, which, when come out of the goat's stomach in the form of stool, is to be burnt in an earthen vessel with the result that excellent brass resembling gold of four-teen units of colour will come out of it. This brass,

when properly incinerated, serves to strengthen the body. It is important both in alchemy and in medicine.

अस्य मारणम्।

प्रथमोविधिः।

नि बुरसशिलागन्धवेष्टिता पुटि । रीतिर ति भ त्वं ततो योज्या यथायथम्॥

Incineration of pittala

First process,

Brass is incinerated, if it is subjected to heat by putam for eight times, after having been smeared each time with a paste made of lemon juice, manasshila, and sulphur

द्वितीयोविधिः।

न्मारणं ताः कृत सर्ब्वत्र योजयेत्। म्रियते गन्धता भ्यां यु वा पुटपाकतः॥

Second process.

Brass may be incinerated in the same way as copper. It may also be incinerated, if subjected to heat by putam after having been smeared with a paste made of sulphur and orpiment

तृतीयोविधिः।

ंचीरं वटचीरं निर्गुगडीचीरकं तथा। ता ीतिध्वनिध्वंसे समगन्धकयोगतः। पुटपाकप्रकारेण थं जायते ध्रवम्॥

Third process.

Copper, brass, as well as bell-metal is killed, if subjected to heat by putam, after having been smeared with a paste made of the milks of arka, banyan, and nirgundi, rubbed with an equal quantity of sulphur

पित्तलस्य व्यवहारः।

मृतारकूटकं कान्तं व्योमसत्त्वं च रितम्। त्रयं समांशकं तुल्यव्योषं जन्तुन्नसंयुतम्॥ ब्रह्मबीजाजमोदादि ।ततिलसंयुतम्। सेवितं निष्क त्रं हि जन्तुन्नं नाशनम्। विशेषाच्छ्वेतकुष्टन्नं दीपनं पाचनं हितम्॥

Use of brass

Incinerated brass, kanta iron, essence of mica, —all equal in quantity to trikatu, biranga, palasha seeds, vana-jamani, chitraka roots, bhallataka oil, and tila (sesamum)——all of these are to be mixed together and taken in doses of one fourth of a tola a day, It cures worms, leprosy, and leucoderma. It increases appetite and power of digestion

कांस्यपित्तलयोर्वेधः।

त्र्यारं तारं समं कृत्वा मृतवंगं नियोजयेत्। एषा राजवती विद्या पिता पुत्रं न भाषते॥

Transmutation of brass and bell-metal

Brass and silver, equal in quantity, are to be melted. Incinerated vanga or tin is to be mixed, little by little, with this amalgam with the result that the whole thing will turn into silver.

अथ कांस्यम् ।

घ्वनिश्च कांस्यकं कांस्यं घोषपुष्पं च घोषकम्। घोषो घोषमग्निलोहं घोषा च कथ्यते हि तत्॥ चतुर्भागेन ताम्ने ए भागैकखुरकेए च। विद्रुतेन भवेत् कांस्यं रसे साधु तदेव ात्।

Kansya (Bell-metal)

Bell-metal is composed of four parts of copper and one part of vanga, melted together. Bell-metal, thus prepared, is commendable in medicines

शुभकांस्यस्य लक्षणम्।

तीच्णशब्दं मृदु स्निग्धमीषच्छचामलशु म्। निर्मलं दाहरक्तं च षट्कं कांस्यं प्रशस्यते॥

Characteristics of good bell metal

Good bell-metal has the following characteristics —(1) sharp sound, (2) softness, (3) mildness, (4) dusky white colour, (5) freedom from impurities and (6) assumption of red colour, when heated

अशुभकांर लक्षणम्।

तत् पीतं दहने म्रं खरं रुचं घनासहम् । मर्दनादागतज्योतिः षट्कं कांस्यं परित्यजेत् ॥

Characteristics of bad bell metal

Bell-metal of an inferior kind is (1) yellow in colour. (2) When heated, it assumes the colour of copper. (3) It is sharp, (4) coarse, (5) unable to stand percussion, and (6) turns glazy when rubbed with something else.

गुणाः।

कं ं लघु च तिक्तोष्णं लेखनं ह ादनम्। किमिकुष्टहरं वातिपत्तव्नं दी ं हि तत्॥ घृतमेकं वि चान्यत् सर्वं कांस्यगतं नृ म्। भु रोग्यसुखदं हितं सा रं तथा। रससेवी न भुञ्जीत कांस्ये च कदलीदले॥ ॥

Properties of Bell-metal

Bell-metal is light, bitter, and warm, reducer of fat, improver of eye-sight, curer of worms and leprosy, pacifier of vayu and pittam, increaser of power of digestion. Every article of food stuff, except clarified butter, becomes salutary to the system, if served on utensils made of bell-metal. One who takes a mercurial preparation should not take his food served on a bell-metal utensil.*

शोधनम्।

प्रथमोविधिः।

१२३ पृष्ठे तृतीयोविधिः १४३ पृष्ठे प्रथमो विधिस्तथा १४४ पृष्ठे तृतीयो विधिश्च द्रष्ट्याः।

Purification of Bell-metal

First process.

See Processes I and III, pages, 143-144 and Process III, page 124

द्वितीयोविधिः ।

ततं कांस्यं गवां मूत्रे वापितं परिशुध्यति । या मथवा रि ं तस्मिन्ने व ददाग्निना ॥

Second process.

Leaves of bell-metal are purified, if they are heated and immersed red hot into cow's urine, or boiled for three hours in the same liquid by a strong heat.

^{*} See page 204, Vol I

रसजलनिधिः—तृतीयखण्डम्।

१५०

अस्य मारणम् ।

प्रथमोविधिः।

(प्रथम 📄 २४७ पृष्ठे चतुर्थोविधि द्रष्टव्यः ।)

Incineration of Bell-metal

First process.

(See page 247, Process No 4, Vol II)

द्वितीयोविधिः।

पत्तलीकृतपत्रं हि कांस्यस्य शोधितस्य च। च्रियते गन्धता भ्यां निरुत्थं पश्चभिः पुटैः॥

Second process.

Thin leaves of bell-metal, duly purified, are reduced absolutely to ashes, if they are subjected to heat by putam for five times, after having been smeared each time with a paste made of sulphur and orpiment.

वर्त्तलोहम्।

्यार्करीतिस्मेहमहिन्मतं तद्वर्त्तलोहकम्। तदेव प गो ख्यं लोहविद्भिरुदाहृतम्॥

Varta-loha

It is an amalgam of bell-metal, copper, brass, iron, and lead It is also called pancha-loha (amalgam of five metals)

गुणाः।

(१)

हिमाम्लं कटुकं रुचं कफिपत्तिवनाश्नमः। रुच्यं त्वच्यं कृमिन्नं च नेत्रंच मलविशोधनम्॥

Its properties

(1)

Varta-loha is cool, sour, pungent, and coarse It pacifies kapha and pittam. It increases appetite, is beneficial to skin and eye-sight, is a killer of worms, and purifier of stool, urine, and other excreta from the system

(२)

तद्भाग्हे धितं सर्वमन्नव्यञ्जनसूपकम्। अम्लेन वर्जितं चातिदी ं हितम्॥

(2)

All sorts of food, prepared in an utensil of this metal, is salutary to the system, and serves to increase the power of digestion, if there is nothing of sour in the materials cooked

बस्य शो ारणम्। द्रुतमश्वजले चिप्तं व ोोहं विशुध्यति। म्रियते गन्धतालाभ्यां पुटितं तद्यथाविधि॥ Purification and Incineration of Varta-loha

Varia-loha is purified, if it is melted and immersd into the urine of horse. It is incinerated, if it is abbected to heat by putam after having been smeari with sulphur and orpiment.

अथ त्रिलोहम्।

पञ्चविंशतिः खर्णस्य तथा रौप्यस्य षोड़श । ताम्रस्य दश भागाश्च त्रिलोहं मिलिता मतम् ॥ त्रिलोहं सर्वदोषघ्नं परमेव रसा म् । पाचनं दीपनं चैव सर्वब् धिविनाशनम् ॥

Triloha.

Twenty five parts of gold, sixteen parts of silver, and ten parts of copper, melted together, form what is called the triloha. It destroys all the doshas and is a great rasayanam. It increases the power of digestion and is a curer of all the diseases

शोधनमारणम्।

शोधनं मारणं ज्ञेयं त्रिलोहस्य सुवर्णवत्। अशोधित रितं त्रिलोहं हि विषोपमम्॥

Purification and Incineration of Triloha.

It is purified and incinerated in the same way as gold. Triloha, not properly purified and incinerated, acts like poison

त्रिलोहरसायनम् ।

रक्तिकामानतो भस्म त्रिलोहस्य यथाविधि। सर्पिर्मधुवराव्योषसंयुक्तं यस्तु सेवते॥ पथ्याशी नियतं प्रातः दीर्घायुः स सुखी सदा। बलीपलितनिर्मुक्तो भजते विपुलश्रियम्॥

Triloha Rasayanam.

One who takes every morning one racti of incinerated tri-loha, mixed with honey, clarified butter, triphala, and trikatu, and observes the prescribed diet, lives a healthy, happy, and long life, without being affected by senile decay

भूना 🥳 ्।

Essence of Earthworms. *

Gold is the essence of earthworms growing in the vicinity of gold mines. The nature of the essence of other earthworms is similarly ascertained with reference to the nature of their place of birth. Essence

[#] द्वितीय े २३४ पृष्ठं द्रष्टन्यम् ।

^{*} See page 234, Vol II,

of earthworms (whether gold, silver, iron, or copper) is useful for the purpose of liquefaction of diamonds and other hard stones. It also increases the potency of mercury and diamonds.

खरसन्तुम्।

धोतं भूनागसम्भूतं मद्येद् भृङ्गजद्रवैः।
निम्बुद्रवेश्च निर्गुख्याः स्वरसीस्त्रिदिनं पृथक् ॥
तद्द्रावणगणोपेतं संमद्य वटकीकृतम्। ॥
निरुध्य दृद्गृषायां द्विद्गुढं प्रथमेद् दृद्गम् ॥
स्वतः शीतं समाहृत्य के विनिवेश्य तत्।
रवकान् राजिकातु ।न् रेणूनितभरान्विताः॥
द्वादशांशार्कसंयु ।न् ध्मात्वा तान् रवकान् त्।
प्रवाल्य रवकानाशु समादाय प्रय ः।
प्रवाल्य रवकानाशु समादाय प्रय ः।
वज्जादिद्रावणं तेन प्रकुर्वीत यथेप्सितम्॥
स्वरसत्त्विमदं प्रो ंर यनम्, त्तमम्।
द्वित्रमृषासु ंसत्त्वं भवति निश्चितम्॥

Khara-sattwam.

Essence of earthworms is to be cleaned with water, and rubbed for one day each with the juice of bhringa-raja, nimboo (lemon fruit), and nirgundi It is then to be rubbed with the Dravana-varga * and

३०५ पृष्ठं द्रष्टव्यम् ।

[•] See page 305, Vol I

strong crucible, and heated steadily for forty eight minutes. When cooled of itself, the contents of the crucible are to be taken out and kept on a piece of smooth stone slab from which are to be collected the heavy metallic dusts of the shape of mustard seed. These are to be mixed with one twelfth their weight of copper, and again heated in a crucible. The metallic dust is then to be separated from foreign matter by being washed off with water. It is then to be used for the liquefaction of diamond, etc. It is called khara-sattwam. It is not a good rasayanam (a medicine which can prevent and cure semile decay).

भू श्रेष्ठसत्त्वपातनविधिः।

भूमिना न् रढांदाय चतुःप्रस्थमितान् शुभान् । हुवर्गारु म्भूतभूमिजान् ॥ रुढीतोयैः शीतलैश्च ैरपि ।

्योषितं मयूरं शूरं वा गायुधम्॥ क्रमेगा चारिय ऽथ तद्धि समुपाहरेत्। चाराम्लैः सह संपेष्य विशोष्य च खरातपे॥ : खर्परके चिप्त्वा भर्जीयत्वा मसीं चरेत्। मसीं द्रावगावर्गेगा संयुक्तां संप्रमर्दिताम्॥ निरुध्य कोष्ठिकामध्ये प्रथमेद् घटिकाद्वयम्। श्रानलीभृतमूपायाः खोटमाहृत्य पेषयेत्॥ प्रचाल्य रवकानाशु समादाय प्रयत्नतः। सुवर्गारेणुवद्द ध्मात्वा नवं कृत्वा नियोजयेत्॥

Extraction of the best essence of earthworms

Four prasthas (4 × 64 tolas) of earthworms are to be collected from the vicinity of mines of gold, silver, copper, or load-stone, and are to be washed by means of turmeric juice and cold water These are then to be gradually made to be eaten by a hungry peacock, boar, or cock, and its stool collected. This stool is to be rubbed with ksharas and amlas, dried by the intense rays of the sun, and then fried in an earthen pot till it turns as black as ink This black powder is to be rubbed with the ingredients which facilitate the melting of hard metal (see page 305, Vol. I), and then heated for forty eight minutes by means of a bellows. When the crucible is cooled, the contents are to be powdered and washed off, and the metalic dust to be collected carefully. This dust is to be mellted like gold dust, and then used as necessary.

अनन्तरोक्तभूनागसत्त्वस्य गुणाः। भूनागोन्द्र द्वव्हसुत्तमतमं श्रोसोमदेवोदितं दत्तं पादमितं द्विशाणकनकेनैकां गतेनोर्मिक ।

अर्मिकामंगुरीयकम्।

तन्द्रौताम्बुविलेपनं स्थिरचरोद्भृतं विषं नेत्ररुग् शृलं मूलगदं च कर्णजरुजो हन्यात प्रसूतिप्रहम्॥

Use of the aforesaid essence

Essence of earthworms, as extracted in the aforesaid manner, is the best of all such essences. The present process was described by Soma-deva (author of Rasendra Churamani). One eighth tola of this essence, combined with half a tola of gold, is to be made into a finger-ring. The water into which this ring is kept immersed for some time can, by external application only, do away with poisons, both organic and inorganic, eye diseases, colic, piles, diseases affecting the ears, and troubles attending child-birth.

भेषजेषु रसप्राधान्यम् ।

भल्पमात्रोपयोज्यत्वादरुचेरप्रसङ्गतः ।
द्विष्ट मारोग्यदायित्वादोषधिभ्योऽधिको रसः ।
भसाध्या व्याधि या प्रोक्ता गोषधिभिश्चिकित्सया ।
साध्या प्रायशो । रसचिकित्सनेन हि ॥
उपरसं लुहं विषं ससूतं रस उच्यते ॥
रसात् परतरं नास्ति त्रिषु लोकेषु भेषजम् ।
मृतानि लोहानि रसोभवन्ति
निव्नन्ति युक्तानि महामयानि ।

श्रभ्यासयोगाद् दृढदेहसिद्धिं कुर्वन्ति रुग्जन्मजराविनाशम् ॥

Superiority of metallic drugs

A medicine, prepared mainly from mercury and minerals, is superior to that prepared from herbs, in as much as (1) the former can be administered in much smaller doses than the latter, (2) it does not give rise to aversion in the patient who takes it; (3) it cures diseases more quickly than the latter; and (4) it cures diseases which are considered incurable by medicines prepared from herbs. Medicines prepared from mercury, with or without the addition of other minerals, poison, etc are the best of all the medicines known to the world

Incinerated metals assume, to a certain extent, the properties of mercury They can also cure diseases which are troublesome and attended with complications. If used for a long time, they can not only cure diseases but also strengthen the body and cure and prevent senile decay.

चतुर्थोऽध्यायः ।

अथ रत्नानि।

जातौ जातौ यदुत्कृष्टं तिद्ध ं प्रचत्तते । रत्नश्च वरपाषागां रमन्ते यत्र मानवाः॥

रत्नानां प्रकाराः।

मरकतं चैव माणिक्यं मौक्तिकं तथा।
नीलमणिगोंमेदं च वैद्र्य्यं दम्ध्हीरकम्॥
स्फिटिकं चन्द्रकान्तं च सूर्य्यकान्तं प्रवाल
प्षपरागं च राजावर्तं च भीष्मकम्।
एते हि मण्यो चेयाः सूतवन्धनकारकाः॥
पालङ्कं रुधिरं पूत्ति तार्च्यं पीलु चोपलम्।
सुगन्धिकं च विचेया उपरतानि सप्तकम्॥
यत्ततस्ते प्रयोक्तव्या रसे रसायने तथा॥
॥

[#] सर्वेषां रत्नोपरत्नानां विस्तृतविवरणार्थं प्रधानतो निम्नलिखिताः ग्रन्था द्रष्ट्रयाः— वृहत्संहिता, भोजकृतयुक्तिकल्पतरुः, विष्णुधर्मोत्तर-पुराणम्, अग्निपुराणम्, गरुड़पुराणम्, तथागस्त्यप्रणीतं रत्नशास्त्रम् ।

CHAPTER 1V.

Ratnas (Gems)

Gents are precious stones The best of them are follows—(1) Vajram (diamond), (2) marakata (emerald), (3) manikyam (rubies), (4) mucta (pearls), (5) mila-mani (sapphire), (6) gomedam (zercon), (7) vaiduryam (oriental cat's eye), (8) dagdha-hirakam or vaikrantam (garnet), (9) sphatikam (quartz), (10) chandra-kantam (moon-stone), (11) surya-kantam sun-stone), (12) pravalam (coral), (13) karketam (chrysoberyl or chrysolyte), (14) pusparaga (topaz), (15) rajavarta (lapis lazuli), and (16) bhismakam (a kind of anti-poisonous white quartz).

These gems are used in consolidating mercury

The following are some of the upa-ratnas or minor gems —(1) palanka (onyx), (2) rudhiram (carnelian), (3) puttika (peridote or bottle-green stone), (4) turkshajam (turquoise, biraja, or peroja), (5) pilu (jade), (6) upalam (opal, chalcedony, and agate), and (7) sugandhikam (spinel),

All these ratnas and uparatnas may be used in the preparations of mercury as well as in preparing medicines meant for curing and preventing diseases and semile decay

For a detailed account of these stones, see Vnhat Sanhita of Barahamihira (Ist century B C), Jukii-kalpa taru of Bhoja raja, Vishnudharmottara puranam, Agnipuranam, Garura puranam. Ratna-shastram by the age Agastya, etc.

पञ्चरत्नम्।

पद्मरागेन्द्रनीलाख्यौ तथा मरकतोत्तमः। पुष्परागश्च वज्राख्यः पञ्च रत्नवराः स्मृताः॥

The Five Gems

(1)

The following five are reckoned to be gems of superior quality --(1) padma-raga (ruby), (2) indra-nila (sapphire), (3) marakata (emerald), (4) puspa-raga (topaz), and (5) hiraka (diamond)

(~)

नीलकं वज्रकं चेति पद्मरागश्च मौक्तिकम्। विद्रमं चेति विज्ञेयं पश्चरत्नं मनीषिभिः॥

(2)

The following five are gems in ordinary use — apphire, diamond, ruby, pearl, and coral

ग्रहरत्नानि (नवरत्नम्)।

माणिक्यमुक्ताफलविद्रु णि तार्च्यञ्च पुष्पं भिदुरं च नी ्। श्च गोमेदकं चाथ विदूरकं च क्रमेण रत्नानि नवग्रहाणाम् ॥

^{*} तार्स्यमिति मरकताख्यं पाषाणम् । िद्धिः । दे हिरकम् । 161

Gems favourite to the planets

Manikya (ruby), mucta (pearl), pravala (coral), turkshya (emerald), puspa-raga (topaz), hiraka (diamond), nila-mani (sapphire), gomedam (zercon), and vaiduryam (oriental cat's eye)—These nine gems are favourites, respectively, to the nine planets, viz. Sun, Moon, Mars, Mercury, Jupiter, Venus, Saturn, Rahu (Dragon's head), and Ket (Dragon's tail) *

व्यवहारयोग्यरत्नानि ।

रसे रसायने दाने धारणे देवतार्चने । सुलच्माणि सुजातीनि रलान्युक्तानि सिद्धये ॥

Gems fit for use

Only gems of excellent qualities should be used in mercurial preparations, in medicines meant to cure and prevent diseases and senile decay, in making gifts to objects of charity (such as priests, astrologers, etc), in being used by one's own self as an article of jewellery conducive to health and happiness, and in making offerings to God. Gems of inferior quality are abortive for each of these purposes.

^{*} In addition to these nine planets, the Hindu Astronmy recognises five minor planets (See Brihat Parashara Hoia Shastram).

अथ वज्म्।

हीरकः पुंसि व 115स्ती चन्द्रो मिणवरश्च सः। हीरश्च रत्न ख्यं च सूचीमुखं वरारकः॥ अभेद्यमिश्ररं दृढः षट्कोणं भागवं तथा। बहुधारश्च वज्राह्नं शतकोटी महामिणः॥ आयुःप्रदं भटिति सद्गुणदं च वृष्यम् दोषत्रयप्रशं स यशम्। सृतेन्द्रबन्धवधसद्गुणकृत् सुदीपि मृत्युअयं तदमृतोपं म्॥

Vajra or Hiraka (Diamond)

Diamond is increaser of longevity. It makes its good qualities felt quickly. It is nutritious pacifier of the three doshas, and curer of all the diseases. It improves the quality of the consolidation and killing of mercury, is an increaser of the power of digestion, is an enemy of death, and is like nectar itself.

वज्राणां वर्णाः।

हीरः श्वेतः स्मृतो विप्रो लोहितः चत्रियः स्मृतः । पीतो वैश्योऽसितः शृद्रश्चतुवर्णात्मकश्च सः ॥ रत्तव्यद्वव्यो विप्रः सर्वसिव्यिद्धायकः । स्वल्परसायनः चत्रः सफलो रोगनाशने ॥

वैश्यो धनप्रदः प्रोक्तस्तथा वादे फलप्रदः। शूद्रो नाश्यति व्याधीन् वयःस्तम्भं करोति च॥

Colour of Diamonils

Diamonds are of four different colours, viz. white, red, yellow, and black. The white variety is beneficial in all respects, and is a rasayanam of curer and preventer of diseases and semile decry. The red variety also is, to a certain extent, a rasayanam. The yellow variety is a giver of wealth (if worn with a ring), and is useful in alchemical operations. The black variety is a destroyer of diseases and a preventer of semile decay.

वक्राणां भेदान्तरम्।

(१)

स्रं वाऽष्टफलकं षट्कोग्रामितभासुरम्। अम्बुदेन्द्रजलाभासं शुश्रं पुंवज्रमुच्यते॥ तदेव चिपिटाकारं स्त्रीवज्ञं वर्त्तुलायतः। वर्तुलं कुगठकोग्रायं किञ्चिद्युरु नपृंसकम्॥

Another Classification of Diamonds (I)

Diamonds are of three kinds, viz (1) masculine, (2) feminine, and (3) neuter. The former have six or eight angles or eight faces. They are very bright, and resemble, in lustre, rain drops falling at the time

of the appearance of a rainbow in the sky. They are flat-shaped, whereas feminine diamonds are cylindrical, depressed at the extremities, and are slightly heavy

(२)

सुवृ ः फल ूर्णास्तेजोयुक्ता बृहत्तराः । पु स्ते स ख्याता रेखाविन्दुविवर्जिताः ॥ रेखाबिन्दुसमायुक्ताः षड्झास्ते स्त्रियः स्मृताः । त्रिकोणाः ला दीर्घा विज्ञेयास्ते नपुंसकाः॥

(2)

Masculine diamonds are well-rounded, well-faced, bright, comparatively big in size, and devoid of lines and spots

Feminine diamonds have six angles and are full of spots and lines. The neuter diamonds are three-angled, thin, and elongated

वज्रभेदानां गुणाः।

ेषु पुरुषाः श्रेष्ठा वेधक रसवन ः । स्त्रियः कुर्वन्ति य न्तिं स्त्रीगां सुखप्रदाः ॥ नपुंसकास्त्ववी ाः स्युरका ः सत्त्ववर्जिताः । रि ः स्त्रीभ्यः प्रदातव्यं क्लीवं क्लीवे प्रयोजयेत् ॥ सर्वभ्यः सर्वदा देयाः पुरुषा वीर्य्यवर्ष्ट् नाः । पुत्रकामा न धारयेन् नारी ं कदाचन ॥

Merits of different kinds of diamonds

Masculine diamonds are the best of all They are able to help the transmutation of metals and to consolidate mercury. Feminine diamonds bring happiness to women and enhance their beauty. Neuter diamonds are impotent, useless, and devoid of essence

Feminine diamonds are to be worn by women, neuter ones by hermaphrodites, but masculine diamonds may be worn always by any person, male, female, or hermaphrodite. A woman who wants to give birth to a son should on no account wear a diamond

उ लक्षणानि ।

(१)

मं ंनीचे गोमेदविद्रु मे ।
नायसोक्षिच्यते रत्नं हित्वा मौक्तिकविद्रु मो ॥
पाषाग्येनापि च प्राय इति रत्नविद्रो जगुः ।
न जरां यान्ति र नि विद्रु मं मौक्तिकं विना ॥
गुरुता ं नां गौरवाधार रकम् ।
वज्रे तद्वैपरीत्यं हि सूरयः परिचत्तते ॥
ं लघु ज्ञेयं तरत्यम्भसि तत् ख ।
पश्चदोरे हिन्दि हुक्तं स्निग्धं च चन्द्ररिमवत् ॥

Characteristics of good Diamond (1)

Vajram or diamond is the best of all gent-whereas gomeda (zeroon) and pravala (coral) are inferior to the rest. None of the gems, except pearl and coral, can be scratched by iron, or even by stones, generally. None of the gems, except pearls and corals, undergoes decay. Heaviness is generally an indicator of preciousness in gems; but the case is quite the reverse with diamonds. Diamonds of superior quality are so light as to float on water. They are free from the five defects (to be described below) and are as soothing as moon's rays.

(२)

यत् पाषागातले निकाषनिकरे नोद्घृष्यते निष्ठुरे।
ान्योप ोहमुद्गर नुलैर्लेखाञ्च यात्याहनम्।
य न्यन् निजलीलयैव दलयेद् ेण वा भिद्यते
तजात्यं कुलिशं वदन्ति कुशः : श्ठाव्यं महार्घ
च ततः॥

(2)

Diamond of an excellent quality is that which cannot be worn out by being rubbed with the surface of even a very hard touch stone; which cannot be cracked even by the sharp edges of other stones, iron instruments, etc., which can easily create a

crack on other substances, and which can be rent asunder by another diamond only Such diamonds are of a high order and very precious.

अशुभवज्रस्य लक्षणानि ।

भस्माभं कपादश्च रेख न्तं च ु म्। धारमिलनं विन्दुत्रासयुक् स्फुटितं तथा। नीलाभं चिपिटं रुचं तद्वज्जं दोषलं त्यजेत्॥

Characteristics of bad diamonds

Diamonds of the following description are bad—
(1) Those which are of ash colour, (2) those which have got spots of the shape of a crow's feet, (3) those which are marked by lines, (4) those which are cylindrical, (5) those which darken or soil their foils or receptacles, (6) those which have got spots, (7) those which have got cracks, (8) those which are rent asunder, (9) those which are of blue colour, 10) those which are flat-shaped, and (11) those which are coarse

Such diamonds are to be avoided

सर्वर ं साधारणदोषाः। गार सश्च बिन्दुश्च रेखा च जलगर्भता। श सर्वरत्ने ष्वमी पञ्च दोषाः साधारणा मताः। चेत्रतोयभवा दोषा रत्ने षु ते न्ति न॥

गारः कर्दमं मलिमत्यर्थः ।

Defects found in gems in general.

The following five are the defects found in genrs in general —dirt, crack, spots, lined spot, and bubble spot

Gems are not affected by defects in the soil in which they are found or in the water in which they are submerged

शोधनमारणहीनव गुणाः।

अशुद्धं कुरुते ं कुष्टं पार्श्वव्यथां तथा । पार् । पगुरुत्वं च मात् संशोध्य मारयेत् ॥

Evil effects of Diamonds, not properly purified and incinerated

Diamonds, not properly purified and incinerated, give rise to leprosy, pain in the side ribs, anemia, inflammation, and heaviness of the limbs. Diamonds should, therefore, be properly purified and incinerated.

शोधनम् ।

व्रथमोविधिः।

कुलत थितैः खिन्नं कोद्र थितेन वा ।® यामैकं दोलिकायन्त्रे वज्रं शुध्यति निश्चितम् ॥

[🚁] कोद्रवः कोदो इति भाषा।

Purification of Diamonds.

First process

Diamond is purified, if it is boiled for three neurs, by means of a Dola-Jantram, with the decoction of kulattha or kodrava (a kind of grass paddy).

द्वितीयोविधिः।

व्याचीकन्द्युतं व ं दोलायन्त्रेण पानि म् ।⊕ सप्ताहं कोद्रव थे कौलत्थे विमलं भवेत् ॥

Second process.

Diamond is purified, if it is put inside the tuber of vyaghri (red eranda plant or kantakarı), and boiled for seven days, by means of a Dola-Jantram, with the decoction of kodrava and kulattha.

तृतीयोविधिः।

यहीत्वा तु शुभं वज्रं व्याधीकन्दोदरे चिपेत्। महिषीविष्ठया जिप्त्वा करीषाग्नौ विपाचयेत्॥ निशायां तु चतुर्यामं निशान्ते चाऽश्वमूत्रके। सेचयेत् तानि कं सप्तरात्रेण शुध्यति॥

Third process

Diamond of excellent quality is to be put inside the tuber of vyaghri (red eranda plant or kantakari).

व्याद्योति रक्तैरण्डः कण्टकारी वा ।

his is to be covered on all sides with the stool of a he-buffalo, and burnt by means of a fire made of ow-dung cakes burning the whole night, at the close f which the diamond is to be immersed into horse-rine This process is to be performed seven night-esulting in the purification of the diamond

चतुर्थोविधिः।

मेघनादा शमी श्यामा श्रृङ्की मदनकोद्रवः ।
लत्थं वेतसं चैवमगस्त्यं सिन्धुवारकः ॥
एतेषां े थैर्व जम्बीरमध्यगम् ।
दोल न्त्रे त्रचहं पाच्यं एवं वज्रं विशुध्यति ॥

Fourth process

Diamond is purified, if it is kept inside a lime fruit and boiled for three days by means of a Dola-Jantram with a decoction of meghanada, shami, shyama, shringi, madana, kodrava, kulattha, vetasa, agastya, (vasaka or vaka), and nirgundi, mixed with a sufficient quantity of water.

पञ्चमोबिधिः।

व्याघीकन्दगतं ं मृदा लिप्तं पुटे पचेत्। होरात्रं समुद्धृत्य हयमूत्रेण सेचयेत्। वज्रीचीरेण सिश्चे द वा त ैवं खलु शुद्धये॥

Fifth process

Diamond is purified, it it is kept inside the tuber of a vyaghri plant coated on all sides with mud, heated by putam for twenty four hours, and then immersed into horse's urine or milk of snuhi

षष्ठोविधिः ।

स्वेद्येद् दोलिकायन्त्रे जयन्त्याः खरसेन च। मणिभुक्ताप्रवाला न यामकेन विशुद्धये॥

Sixth process

Any gem or ratha is purified, if it is boiled in a Dola Jantram for one hour with the pince of jayanti leaves

वज्राणां मारणम्।

(१) विप्रवज्ञस्य मारणम्।

प्रथमोविधिः।

अश्वत्थं बद्री भिगटी अस्तिकं कर्कटारित्यः। तुल्यं स्तुहीपयः पिष्ट्वा वज्रं तद्यांस**े चिपेत्।** रुद्धा गजपुटे पाकाद विप्रवज्ञं मृतं भवेत्॥

Incineration of Diamonds

(1) White diamonds

First process

Diamond of white colour is incinerated, if it is heated by Gajaputam, after having been coated on

all sides with a paste made of aswattha, vadari (plum), jhinti, makshikam, and shell of crab, all rubbed together with an equal quantity of milk of snuhi.

द्वितीयोविधिः।

गारुड़ी गन्धकं तालं बद्रीरससंप्लुतम्। अश्वत्थस्वरसेर्भाब्यं पुटेत् पिगडं सरक्तकम्। म्रियते तेन योगेन ब्रह्मवज्रं हि तः॥

Second process.

Diamond of white colour is incinerated, if it is subjected to heat by putam after having been kept inside a lump made of patala-garuri, sulphur, and orpiment, rubbed with the juice of plums, and then subjected to bhavana, first, with the juice of aswattha and then with blood (preferably bug's blood).

(२) क्षत्रियवज्रस्य मारणम् । प्रथमोविधिः ।

करवीरं मेषशृङ्गं वदरकमुड्म्बरम् । अर्कदुग्धं समं पिष्टुा विप्रवन्मारयेन्नृपम् ॥॥

(2) Red diamonds

First process.

Diamond of red colour is to be incinerated, if it is heated by Gajaputam, after having been coated

मृपिमिति क्षित्रयवर्णवज्रम् ।

on all sides with a paste made of karabira, meshashringi, vadara (plum), udumbara, all rubbed with an equal quantity of milk of arka plant.

द्वितीयोविधिः।

नीलं च शङ्खचूर्णं च शिलाभूनागशूरणम्। म्रियते चत्रवज्ञकमेषां मध्ये पुटेन हि॥

Second process.

Diamond of red colour is incinerated, if it is subjected to heat by putam, after having been confined within a lump made of nila plant (indigo), powdered conch shell, manas-shila, earthworms, and shurana.

(३) वैश्यवज्रस्य मारणम् । प्रथमोविधिः ।

ब चातिब गन्धं पेषयेत् कच्छपास्थि च। एतेश्च वारुगीदुग्धैर्म्चियते वैश्यो विप्रवत्॥

(3) Yellow diamonds

First process.

Diamond of yellow colour is to be incinerated, if it is heated by Gajaputam, after having been coated on all sides by a paste made of bala, atibala, sulphur, shell of tortoise, all rubbed with an equal quantity of the milk of indrabaruni.

द्वितीयोविधिः।

स्तुह्यर्ककरवीरं च ू गं दरदं :। उत्तमैर्वारुणीचीरैवैर्श नां मारणं पुटैः॥

Second process.

Diamond of yellow colour is incinerated, if it is subjected to heat by putam after having been rubbed with the milks of snuhi, karabira, bata (banyan), and Indra-varuni, mixed with earthworms and hingula (cinnabar).

शूद्रवज्रस्य मारणम् । प्रथमोविधिः ।

रसोनं शूरणं शङ्खं समं पेष्यं मनःशिला । वटचीरेण मूषान्तर्विप्रवच्छ्द्रमारणम् ॥

(4) Black Diammds

First process

Diamond of black colour is to be incinerated, if it is subjected to heat by Gajaputam, after having been coated on all sides with a paste made of shuranam, garlic, conch-shell, manas-shila, all rubbed with an equal quantity of the milk of banian tree

द्वितीयोविधिः।

गन्धाश्मकं घृतं तालं मेषशृङ्गं समांशकम्। विषं न्तं स्नुहीचीरं नारीपुष्पं पयः तम्। एभिर्विलित्तमृषायां नात् श्रुद्रमारणम्॥

Second process.

Diamond of black colour is incinerated, if it heated in a crucible, the inner surface of which coated with a paste made of sulphur, clarified butter orpiment, ram's horn, aconite, load stone, milk of arka, and menstrual excretion of women—all equal in quantity and rubbed with milk.

स्रीनपुंसकभेदेन वज्रानां मारणे वैशिष्ट्यम्। स्त्रियस्तेषां म्रियन्ते च तत्तदोषधियोगतः। चतुर्णामोषधिब्यूहैम्रियते च नपुंसकम्॥

Special directions

Feminine diamonds are to be incinerated in the same way as described above. Neuter diamonds are to be incinerated with all the herbs combined, required for the incineration of masculine diamonds of four different colours, as described above.

सामान्येन व णम्। प्रथमोविधिः।

त्रिः कृत्वा तत्तप्तः मूत्रेण सेचयेत्।

मत्कुणैस्ता ं पिष्ट्वा तद्गोरे लिशं चिपेत्॥

ंवाजिमूत्रेण सिक्तं पूट्वोदि ैः।

भस्मीभवति ंवज्रवत् कुरुते तनुम्॥

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(2) Incineration of Diamonds, irrespective of colour.

First process.

Diamond is to be heated and immersed into the urine of ass. Orpiment is to be rubbed with bug's blood and made into a lump, inside which the diamond is to be kept. It is then to be heated strongly and immersed into the urine of horse. Performance of this process for 21 times results in the incineration of the diamond

द्वितीयोविधिः।

ऊर्गायुश्वङ्गः परिपिष्य पिग्डमेतस्य मध्ये तु निधाय वज्रम् । पिग्डेऽथवाऽधाय च वज्रबल्ल्याः पुटत्रयं तस्या रसे विद्ध्यात्॥

नुत्युरेवं भवेदस्य व स्यस्य न संशयः॥

Second process.

Horn of ram is to be rubbed with the juice of asthi-sanhara and made into a lump. Diamond is to be kept inside this lump and subjected to heat by putam. Three such putams result in its incineration. A lump made of asthi-sanhara creeper may be made use of in the place of a lump made of ram's horn.

तृतोयोविधः।

द्विवर्षरूढ़कार्पासमूलं कन्यामूलैः सह । नारीस्तन्येन संपिष्य वज्रं निधापयेत् । अनेन म्रियते वज्रं पुटपाकविधानतः ॥

Third process.

Diamond is incinerated, if it is heated by putam, after having been kept inside a paste made of the roots of cotton plant of two years' standing and the roots of kanya, all rubbed with a sufficient quantity of human milk.

चतुर्थोविधिः।

मेष भुजङ्गारि कूर्म्मपृष्ठाम्लवेतसैः। गजदन्तसमं पिष्टा वज्रीदुग्धेन गोलकम्। अ । वज्रं मार्यते धमनेन च॥

Fourth process.

Ram's horn, snake's bone, tortoise shell, amlavetasa, and elephant's tusk—all these are to be pounded and made into a lump by being rubbed with the milk of snuhi. Diamond is incinerated, if it is kept confined within this lump and heated strongly.

गजदन्त इत्येतस्य स्थले शशदन्त इति पा

पञ्चमोविधिः।

त्रि गबल्ल्यास्तु कार्पासस्याऽथ मुद्धिहा । पिष्ट्वा तन्मव्यगं वज्रं मुषामध्ये निरोधयेत् । पचेदुगजपुटे म्रियते पुटसप्तकैः ॥

Fifth process.

Tambula creeper (betel) of three years' standing, as well as roots of a cotton plant are to be rubbed together and made into a paste. Diamond is incinerated, if it is confined within this paste and heated by Gaja putam for seven times, a fresh paste being used each time

षष्ठोविधिः।

मत्कुणानान्तु र ेन ऽतपशोषितम्। लिं वितं तद्वच्चूर्णिता च ःशिला॥ एते च बद्रिश्लेश्चिष्टिः पुटे ्। पुनर्लिप्यं पुनः पाच्यं स्त्रियते ः॥

Sixth process.

Diamond is to be subjected to bhavana with the blood of bugs for seven times, and dried each time in the sun. Manas-shila is also to be similarly treated. Both these things are to be put together, covered by means of plum leaves, and then heated by putam. Performance of this process for seven times results in the incineration of the diamond.

सप्तमोविधिः।

वज्ञं महानदीशुक्तौ चिप्रं भाव्यं मुहुर्मूः।
स्तुक्ष्यंद्रव्यद्वद्वयः द्वेगौकेन चाहि ्॥
कृष्णकर्कटमांसे तत्चिष्वा च वेष्टयेद्वहिः।
भूनागस्य मृदा स ् ातं भ त्वमाप्नुयात्॥

Seventh process.

Diamond, kept in shells of oyster growing in a big river, is to be subjected to bhavana, quickly and over and over again, with the juices of snuhi, arka, dhatura, and kanya, a separate day being allotted to each of these juices. The diamond is then to be surrounded on all sides with the flesh of black crab. The oyster shells are then to be closed and covered by means of mud, raised by earth-worms. The whole thing is then to be heated strongly resulting in the incineration of the diamond.

अष्टमोविधिः।

रक्तोत्पलस्य मूलैश्च मेघनादस्य ट्मलैः। पिष्डितैर्वेरिः तंव भ त्यलम्॥

Eighth process.

Diamond is incinerated, if it is heated after having been kept inside a paste, made of the roots of red water-lily and buds of meghanada.

नवमोविधिः।

कांस्यपात्रे हि भे य मूत्रे वज्जं विनिःचिपेत्। त्रिःसप्तकृत्वः सन्तप्तं वज्जमेवं मृतं भवेत्॥

Ninth process

Diamond is incinerated, if it is heated 21 times and immersed each time into frog's urine, kept in a bell-metal pot.

दशमोविधिः।

नीलज्योरि कन्दे े विशोषितम्।
भस्मत्वमायाति कर्मवज्ज्ञानवहिना॥

Tenth process.

Diamond is incinerated, if it is subjected to a necessary amount of heat after having been rubbed with the tuber of a blue jyotismati creeper and dried in the sun.

एकादशोविधिः ।

वितिप्तं मत्कुण्स्यास्त्रैः सं वि गोषितम् । कासमर्दरसापूर्णे लौहपात्रे निवेतितम् ॥॥ सप्तवारं परिध्मातं व म भवेत् खलु । ब्रह्मज्योतिर्मुनोन्द्रे ए क्रमोऽयं परिकीर्त्तितः ॥

 [#] लौहपात्रे इत्येतस्य स्थले पात्रे इत्येतत् पाठान्तरम् ।

Eleventh process.

Diamond is incinerated, if it is smeared with the blood of bugs, dried in the sun, and then heated and immersed into the juice of kasa-marda kept in an iron pot, the whole process being repeated for seven times. This process was described by the great sage Brahma-Jyoti.

द्वादशोविधिः।

मदनस्य फलोद्भृतरसेन चौ एटा गकैः। कृतकल्केन संलिप्य पुटेद विंशतिवारकम्। वज्रचूर्णं भवेद्वर्यं योजयेच र दिषु॥

Twelfth process

Diamond is reduced to ashes of an excellent quality, if it is heated by putam for twenty times, after having been smeared each time with a paste, made of earthworms, rubbed with the juice of the fruits of madana tree.

त्रयोदशोविधिः।

ं मत्कुणरक्तेन चतुर्वारं विभावितम् । सुगन्धिमूषि मांसैः क्रत्तैर्विमर्च वेष्टयेत् ॥ पुटेत् पुटेर्वाराहाख्यैस्त्रिंशद्वारं ततः परम् । ध्मात्वा ध्मात्वा शतं वारान् कुलत्थकाथके चिपेत् कुलत्थ थसंयुक्तलकुचद्रविष्ट्या । शिलया लिसमूषायां वज्रं चिष्त्वा निरुध्य च ॥ रं पुटेत् सम्यग् विशुष्कैश्च रह्मेख्तैः। शतवारं ततो ध्मात्वा निचिप्तः छग्रह्दे॥ निः प्रियते ं वारितरं भवेत्। वाक् चन्द्रसेन ते ैतद् विभारणः। त्ययसंयुक्त कवान् र गैतुकी॥

Thirteenth process.

Diamond is to be subjected to bhavana with bug's blood for four times. It is then to be covered on all sides with the flesh of rats, cut into pieces, and heated by Baraha-putam for thirty times. It is then to be heated for 100 times and immersed each time in decoction of kulattha. The diamond is then to be heated by putam for eight times after having been confined in a crucible, the inner surface of which is to be coated with a paste made of decoction of kulattha, juice of lakucha, and manas-shila. The diamond is then to be heated for 100 times, and immersed each time in purified mercury, with the result that the diamond is reduced to ashes which can float on the surface of water

This process was described by the chemist, Chandra Sena, founder of the Chandra dynasty

चतुर्दशोविधिः।

हिंगुसैन्धवसंयुक्तकाथे कुलत्थजे चिपेत्। तप्तं तप्तं पुनर्वज्रं भूयाच् चूर्णं त्रिसप्तधा॥

Fourteenth process

Diamond is incinerated, if it is heated for 21 times, and immersed each time into the decoction of kulattha, mixed with hingu and saindhava.

पञ्चदशोविधिः।

वज्रादिसर्वर मारणम्।

रसो हंसं शिला ंगरुड़ं गन्धटंकणम्। भून ं विमलं वंगं मेषश्रृङ्गः च चुम्बकम्॥ शुक्रशोनितसंयुक्तं सोक्येन्धिभावितम्। रूपालेपप्रयोगेन रगां ध्रवम्। एवं ूस्थाने नियोजयेत्॥

Fifteenth process.

General method of Incineration of all the Gems

Diamond and other gems are incinerated, if heated by putam, after having been confined in a crucible the inner surface of which is coated with a paste made of mercury, hingula, manas-shila, haritala, swarna-makshika, sulphur, tankanam, earthworms, bimala, vanga, ram's horn, load stone, semen, and blood—all these mixed together and subjected to bhavana with the juices of some of the herbs generally used in incineration of gems

वज्रस्य व्यवहारः।

(~)

तद्वज्रं चूर्णयित्वाऽथ किञ्चिटङ्कणसंयुतम् । खरभूनागसत्त्वेन विश्विद्यशितेन च । तुल्यस्वर्णेन तद्धमातं योजनीयं रसादिषु ॥

Uses of Dramond

(1)

The diamond, thus prepared and powdered, should be mixed with a little of borax, khara-satwa (see page 154), twenty times in weight of the diamond, and incinerated gold, equal in quantity to the diamond,—all these are to be rubbed together and heated. The product may be used in medicines

(२) त्रियुगोन रसेनव संमर्दच युटिकीकृतम्। मुखे धृतं करोत्याशु चलद्दन्तविबन्धनम्॥

(2)

Incinerated diamond, rubbed with three times its weight of mercury, and made into a pill, strengthens even a tottering tooth and makes it steady.

(🐧)

त्रिंशद्भागमितं हि वज्रभितं खर्णं गिकं तारं चाष्ट्रगुणं सि मृतवरं रुद्रांशकं भ्रकम्।

पादांशं ख ताप्यकं वसुगुगां वैक्रान्तकं षड़्गुगां भागोऽप्युक्तरसे रसोऽयमुदितः षाड़गुगयसंसिद्धये ॥

(3)

Thirty parts of incinerated diamond, four parts of gold, eight parts of silver, eleven parts of white shankhi, four parts of mica, eight parts of swarnamakshika, and six parts of vaikranta—all these are to be mixed together and used with mercury for the enhancement of its properties by six times.

(8)

सूतभ र्द्ध संयुक्तं मृतवज्रस्य ्।
मृताभ्रसत्त्वमुभयोस्तुलितं परिमर्दितम्॥
चौद्राज्यसंयुतं ्रं च सेवितम्।
निहृन्ति सकलान् रोगान् परमेतद् र ॥

(4)

Ashes of diamond, with half its quantity of incinerated mercury, ashes of the essence of mica, equal in quantity to both,—all these are to be rubbed together and taken in doses of one racti a day with honey and clarified butter—It cures all the diseases It is a great rasayanam.

व मृदूकरणम् ।

मातु लुंगान्तरे वज्रं रुद्धा लिम्प्यान् मृदा बहिः।
पुटेत् पश्चात् स्ये हि शतशो यत्नतो धीमान्॥

नागबल्ल्याद्रवैर्लिप्तं तत्पत्रेगौव वेष्टयेत्। भूमध्ये च स्थितं यावत् तद्वज्ञं मृदुतां व्रजेत्॥

Softening of Diamonds.

Diamond is to be confined within a matulunga fruit, covered on all sides with mud. It is then to be subjected to heat by Gaja-putam for a hundred times. Next is it to to smeared with the juice of tambula (betel) leaves, wrapped up with the leaves of the same creeper, and buried deep into the earth for some time resulting in the softening of the diamond.

वज्रस्य द्रुतिः।

(१)

वज्रबल्ल्यन्तरस्थं च कृत्वा वज्रं निरुत्थितम् । अम्लभाग्डगतं स्वेद्यं सप्ताहादु द्रवतां व्रजेत् ॥

Liquefaction of diamond.

Ashes of diamond, incapable of being restored to their former condition, are to be kept inside an asthisanhara creeper and immersed into a vessel filled with a sour vegetable juice (such as lime juice), and then heated for seven days with the result that it turns into a liquid.

सवरतानां द्रुतिः।

(2)

वणं चाराणां त्रितयं तथा। मांसद्रवोऽम्लवेतसर्चुह्निका गांत ॥ स्थ्रलं कुम्भी ं तथा मुखी शुभा।⊛ द्रवन्ती च रुद्रन्ती च पयस्या चित्रमृलकम्॥ दुग्धं रह्यास्तथार्कस्य ै संमर्यं तः। गोलं विधाय तन्मध्ये प्रचिपेत् तद्नन्तरः॥ युग्वत्रवरतानि जातिमन्ति नि च। भूर्जेग गोलकं कृत्वा सूत्रे वेष्ट्य तः॥ पुनर्वस्रे ए संवेष्ट्य दोलायन्त्रे निधाय च। सर्वाम्लयुक्तरन्थानपरिपृर्णघटोदरे ॥ अहोरात्रत्रयं स्वेद्येत् तीव्रवहिना । तस्मादाह्यः संचालः द्रुतिमाहरेत्॥ रत्नतुल्यप्रभा लघ्वी देहलो .करी शुभा ॥

Liquefaction of all the gems.

(2)

Hingu, five salts, the three ksharas, that variety of amla-vetasa which can decompose flesh into a liquid, nava-sara, well-developed and

कुम्भोफलमिति जयपालबीजम् । ज्वालामुखीति भङ्घातकम् ।

सर्वरतानां द्रुतिः।

र ठं पञ्चलवर्णं चाराणां त्रितयं तथा। मांसद्रवोऽम्लवेतसर्चुह्निकालवर्णं तथा ॥ स्थूलं कुम्भीफलं ं तथा ज्वालामुखी शुभा। द्रवन्ती च रुद्न्तो च पयस्या चित्रमुखकम्॥ दुग्धं ज्ह्यास्तथार्कस्य सर्वं संमर्यः यस्तरः। गोलं विधाय तन्मध्ये प्रचिषेत् तदनन्तरम्॥ गुगावन्नवरतानि जातिमन्ति शुभानि च। भूजेंग गोलकं कृत्वा सूत्रेगावेष्ट्य यस्ताः॥ पुनर्वस्त्रे संवेष्ट्य दोलायन् निधाय च। सर्वाम्लयुक्तसन्धानपरिपूर्णघटोद्दरे ॥ अहोरात्रत्रयं वत् स्वेद्येत् तीव्रवहिना । तस्मादाहृत्य संचाल्य रत्नजां द्रतिमाहरेत्॥ रततुल्यप्रभा लघ्वी देहलोहकरी शुभा ॥

Liquefaction of all the gemin.

(2)

Hingu, five salts, the three ksharas, that variety of amla-vetasa which can decompose flesh into a liquid, nava-sara, well-developed and

कुम्मीफलिमिति अथपालबीजम् । उचालाः चीति माझातकम् ।

well-ripened jayapala seeds, bhallataka, dravanti, rudanti, bidari, chitraka roots, milks of snuhi and arka—all these are to be rubbed together and made into a lump, into which is to be kept any of the nine gems of excellent quality. The lump is then to be wrapped up with leaves of bhurja (birch) tree, and again covered with a piece of cloth. It is then to be boiled by means of a Dola-Jantram containing fermented liquid mixed with all the amlas Strong heat is to be applied for 72 hours at a stretch, after which the gem, in a state of liquefaction, is to be collected from inside the vessel. This liquid has the glaze of gems. It is light. It makes the body as strong as iron

केतकीस्वरसं घाद्यं सैन्धवं खर्णपुष्पिका । इन्द्रगोपकसंयुक्तं सर्वं भागडे विनिचिपेत् ॥ सप्ताहं स्वेदयेत् तस्मिन् वे न्तं द्र ं त्रजेत् । सो एके तथा वज्रे प त् स्वेदनाद् द्रुतिः ॥ जायते सन्देहो योग ः । कुरुते शेगराजोऽयं र ं गां परम् ॥

(3)

Juice of ketaki flower, rock-salt, swarna-flower, and indragopa insect—all these are to be kept in a vessel Diamond and all the other stones, and

स्वणेपुष्पीति स्वणेयूथी विषलाङ्गली वा ।

metals are liquefied, if mixed and boiled for seven

वज्रविकारशान्ति:।

सितामधुघृतैः द्धं गोदुग्धं दिन कम्। विधिना सेवितं हन्ति न्जूदोषं चिरोत्थितम्॥

Removal of evil effects of diamond, not properly incinerated.

Cow's milk, taken for seven days with sugarcandy, honey, and clarified butter, does away with the evil effects of diamond, not properly incinerated.

शोधनकमः।

व्याप् वन्त्यक्समङ्गानि तैल बिन्दुरिवाम्भसि। न विना शोधनं धातवोमणयोऽपि च॥ रोगोपशमकर्त्तारः शोधनं तेन वच्यते। शो मार्गौ हीना हेयास्ते विषवत् सदा॥

Purification of Gems in general.

Metals, minerals, and gems do not spread through the different parts of the body, if not properly purified. They are positively harmful, if used without purification and incineration

तेषां शोधनस्य न्यविधिः।

(१)

पुंवज्रं गारुड़ोऽङ्गारं माणिक्यं पुष्पकं तथा।
वैद्र्र्याः च गोमेदं मौक्तिकं च प्र लकम् ॥
एतानि नवरदानि शानि सुधारसैः।
शोधितानि यथाविधि मारितानि च ः॥
शुष्ट्राद्धदेदं माणिक्यं जयन्त्य मौक्तिकं तथा।
विद्रु मं चारवर्गेण तार्च्यं गोदुग्धः॥
पुष्परागश्च सन्धानैः लत्थ थसंयुतैः।
राष्ट्रद्रिष्ट्रपद्धदेवज्ञं नीलं नीलीरसेन वा।
राष्ट्रद्रिष्ट्रपद्धदेवज्ञं नीलं नीलीरसेन वा।
राष्ट्रद्रिष्ट्रपद्धदेवज्ञं नीलं नीलीरसेन वा।

General Process of purification of gems
(1)

Masculine diamond, emerald, sapphire, ruby, topaz, cat's eye, zercon, pearl, and coral—these nine gems are like nectar itself, if purified and incinerated in the prescribed manner

(1) Ruby, (2) pearl, (3) coral, (4) emerald, (5) topaz, (6) diamond, (7) sapphire, (8) zercon, and (9) cat's eye—these nine gems are purified by being boiled with the following, respectively—(1) a sour vegetable juice, (2) juice of jayanti, (3) all the ksharas, (4) cow's milk, (5) fermented liquids mixed with the decoction of kulattha, (6) juice of tanduliya,

(7) juice of indigo. (8) go-rochana (dried bile of a cow sometimes found deposited in its horns), and (9) decoction of triphala

(२)

कुलत्थस्य पचेद्द्रोगां वारिगा गोन च। तेन पादावशेषेगा ध्याश्च मगायः शिलाः॥ स्रातपे त्रिदिनं शुष्कं काथसिक्तं पुनः पुनः। एवं शुध्यति तत् [°] मारगीयं ततः परम्॥

(2)

One drona of kulattha is to be boiled with eight dronas of water. Gems and stones are to be boiled with this decoction. They are then to be dried in the un for three days, saturated all this while with the ame decoction, put upon them over and over again. This is how the gems are purified.

(३) अम्लचारविपाचितं तु ं लोहं वि ं भवेत्। माचिकोऽपि शि ऽपि त्थग ं लंच

क्त ॥

मुक्ताविद्रुमशुिकाऽथ वरा : :। जायन्तेऽम्ह न्नि : सि च चिप्तः शुभः

दुवलिः ॥

(3)

All sorts of metals, makshika, manas-shila, tutthaka, abhra, haritala, mucta (pearl), pravala (coral), shucti (oyster-shell), chapala, and cowri-shells are purified, if boiled with a solution of vegetable acids and alkalis (ksharas) Sulphur is purified, if boiled in the same way and then immersed (through a piece of dry cloth) into milk.

(8)

१७२ पृष्ठे षष्ठोविधिईष्टव्यः ।

(4)

See Process VI page 172

अथ वज्रे तररत्नानां भस्मक्रमः।

व्रथमोविधिः।

लकुचद्रवसंपिष्टैः शि गन्धकतालकैः। वज् विनाऽन्यरतानि म्नियन्तेऽष्टपुटैः खलु ॥

Incineration of gems other than diamond.

First process.

All the gems, with the exception of diamond, are incinerated, if subjected to heat by putam for eight times, after having been smeared each time with a paste made of manas-shila, gandhaka, and haritala, rubbed with the juice of lakucha.

द्वितीयोविधिः।

कुमार्या तगडूलीयेन न्येन च निषेचयेत्। प्रत्येकं सप्तधा यलात् तप्तं तप्तं च कृत् शः॥ मौक्तिकानि प्रवालानि तथा र न्यशेषतः। चुगाद्व विविधवर्गानि म्रियन्ते नात्र संश्यः॥

Second process

Any gem may be incinerated, if it is heated and immersed, for seven times, into the juice of each of the following —kanya, tanduliya, and human milk.

वतीयोविधिः। वज्रवत् सर्वर नि शोधयेन् मारयेत् तथा।

Third process.

The rest of the gems may be purified and incinerated in the same way as diamond.

सद्रोषमणयः परिहर्त्तव्याः।

(१)

दोपोपसृष्टं मिण्मप्रबोधात् विभक्ति यः कश्चन कश्चिदेकम् । तं वन्धुदुःखञ्च सवन्धवित्तनाशादयो दोषगणा भजन्ते ॥ Desirability of avoiding defective gems

(1)

One who uses a defective gem is subjected to such calamities as loss of friends and wealth, imprisonment, etc

(२)

चगडाल एकोऽपि यथाभिजातान् समेत्य दूरादपहन्ति यत्नात् । तथा मग्गीन् भूरिगुग्गोपपन्नान् शक्तोऽपि विद्रावियतुं विजातः ॥

(2)

Exactly as a man of noble birth is ruined by coming in contact with a man of low birth and vulgar taste, the good effects produced by a genuine gem are nullified by the contact of bad gems

सर्वरतानां सामान्यगुणाः।

मुक्ताविद्रुमवज्रे न्द्रवैदूर्यस्फिटिकादिकम्। मिण्रिः सरं शीतं कषायं दु लेखनम्। चक्तष्यं धारणात् तच्च पापालक्मीविनाशनम्॥

General Properties of all the gems

They are laxative, cool, astringent, sweet, destroyer of fat, beneficial to eye-sight, and destroyer of vice and misfortune

अथ मरकतम्।

मरकतं च तार्चोत्थं गारुड़ं गरुड़ाङ्कितम्। अ रोहिण्यं सौपर्णं च गरुड़ोद्दगीर्णकं तथा ॥ पाचि च बुधरत्नं च तार्च्यं गारुत्मतं तथा। अश्मगभें हरिन्मणिः सुलभं तन् न भूतले॥

कतस्य छक्षणम्।

हरिद्वर्णं ग्रह क्षिग्धं स्फुरद्दरश्मिचयं शुभम्। मस्रणं भासुरं ताद्यं गाढ़ं सप्तग्रणं मतम्॥

MARAKATA (EMERALD)

The following seven are the features of a good emerald .—

(1) green colour, (2) heaviness, (3) softness, (4) radiating rays, (5) smoothness, (6) brightness, and 7 density.

अशस्तमरकतस्थ लक्षणम्।

किपलं कर्कशं नील पागडु कृष्णं सलाघवम्। चिपिटं विकटं कृष्णं रुचं ताच्यं न शस्यते॥

ताश्लेमिति पुरा महिषकश्यपप्रमुखमुनिभिरध्युषितं कश्यपीय इदसिष्ठिहितमधुना तार्किनामधेयं यवनाधिष्टानम् ।

Characteristics of bad emerald.

A bad emerald is (1) tawny, (2) coarse, (3) blue, (4) pale-black (5) light, (6) flat-shaped (7) ugly,

(8) black, and (9) rough

मरकतस्य गुणाः।

(१)

ज्वरच्छिदिविषश्वाससन्निपाताग्निमान्यनुत्। दुर्नामपागडुशोफन्नं तार्च्यमोजोविवर्द्धनम्॥

Properties of emerald

(1)

Emerald, duly incinerated, can cure fever, nausea, poison, asthma, abnormal excess of the three doshas, loss of the power of digestion, piles, anemia, and swelling of the body. It increases vitality.

(२)

तस्मिन् मरकतस्थाने यत्किश्चिदुपज ते। तत्सर्वं विषरोगाणां प्रशमाय प्रकीर्त्तचते॥ सर्वमन्त्रौषधिगणौर्यन्न शक्यं चिवि सितुम्। महाहिदंष्ट्राप्रभवं विषं तत् तेन शाम्यति॥

(2)

Everything growing in a mine of emerald can counteract the evil effects of poison. Poison of a highly venomous snake, incapable of being cured by

all sorts of incantations and herbal drugs, can be done away with by emerald (duly incinerated).

महागुणं तम्।

श्रत्यत् हरिद्वर्णं कोमलमर्चिर्वभेदजित् च। काश्चनचूर्णेनान्तः पूर्णामिव लच्यते यच।। यक्तं संस्थानगुर्णेः समरागं गौरवे न हीनम्। सिवतुः करसंस्पर्शात् च्छ्रग्यति सर्वा ंदीप्त्या॥ हित्वा चहरिद्भावं यस्यान्तर्विनिहिता भवेद् दीप्तिः।॥ श्राचरप्रभाप्रभाहतनवशाद्वलसन्निभा भाति॥ यच्च मनसः प्रसादं विद्धाति निरीचितमतिमात्रम्। तन्मरकतं महागुर्णामिति रत्नविदां मनोवृत्तिः॥

Emeralds of superior quality

Emerald of superior quality is very green, soft, and complex in lustre by the penetration of rays from outside. Its interior appears to be full of dust of gold. It is characterised by a structural excellence and uniformity of colour. It is not light in weight. On sun's rays being reflected upon it, the whole room is illuminated. Without giving up the greenness of its colour, it keeps within itself its inherent lustre. It resembles in luster the beauty of green grass brightened with the effulgence of lightning. Its very sight pleases the mind.

हरिद्भावमिति हरिद्वर्णस्य अभावम् ।

जात्यमर परीक्षा।

(१)

क्रित्रमत्वं सहजत्वं दृश्यते सूरिभिः सदा। घर्षयेत् प्रस्तरे व्यङ्गकाचस्तस्माद् विपद्यते॥*

Test of Genuine Emerald.

Genumeness of emeralds is tested by experts by rubbing it with a piece of stone. If treated in this way, it will break into pieces, if it is glass. This is not the case with a genume emerald

(२)

लेखयेल् लौहभुङ्गेग् चूर्णनाऽथ विलेपयेत्। सहजः कान्तिमाप्तोति कृत्रिमो मलिनायते॥

(2)

An emerald to be tested is to be scratched with an iron fork and then smeared with lime. Thus treated, a genuine emerald waxes in glaze, whereas an artificial one loses its lustre.

(३)

सन्धिविश्लेषितं रत्नमन्यमरक द भवेत्। श्रेयष् मैर्न तद्व धार्यं क्रेतव्यं वा कथञ्चन॥

व्यङ्गः विकृताङ्गः गृहीतमरकताकार इत्यर्थः ।

(3)

The emerald which is broken by another emerald the aid not be worn or bought

(8)

जोंमेण वाससा घृष्टा दीिव त्यजित पूर्तिका। शि दीि भेरकतस्य हि घृष्ट्या चौमेण वर्द्ध ते।।

(4)

Puttika (peridote) loses its lustre by being rubbed with a piece of silken cloth, whereas genuine emerald gains in lustre, if treated in the same way

(4)

समायतनवारिणो भारेण सह तोलतः। जात्यहरिणमणेर्भारो निर्णेतब्यो मणीषिभिः॥ तद्वभारतुलितेनैव घवात् चो मन्यते॥ नीरपूर्णघटे विद्वाल्क्यपसारितं हि यत्। वारि तद्वस्तुना तुल्यमायतने जगुर्बुधाः॥

(5)

The weight of a genuine emerald is to be ascertained as compared with that of water of the same dimension. The figure, thus obtained, is to be compared with that representing the weight of a piece of stone (to be tested), in relation to the weight

पुत्रिकेति नामान्तरम्।

of water of the same dimension. If the second figure is much lower than the first, the stone tested is to be considered glass or something other than an emerald. The water displaced by an article immersed into a pot full of water is regarded to be of the same dimension as the article itself.*

(**ξ**)

कस्यचिद्रनेकरूपैर्मरकतमनुगछतोऽपि गुणवर्गाः। भन्नातस्य निर्गोतुर्वेशयमुपैति वर्णस्य ॥

(6)

Some bhallata (a stone which possesses trecolour and some other features of emerald) has appear to resemble a real emerald in adom in tother features. The difference between such a stream and emerald can be known by a greater cleanures.

अथ मागिवयम्।

माणिक्यं शोणरत्नं च तरुणं लोहितं तथा। शृङ्गारो रविरत्नं च रङ्गमणिश्च रागयुक्॥

तस्य भेदाः।

माणिक्यं पद्मरागाख्यं द्वितीयं कुरुविन्दजम् । सौगन्धिकं तृतीयं स्यात् चतुर्थं नीलगन्धि च ॥

^{*} This is a clear reference to the ancient Indians having a knowledge of specific gravity.

कुरेश्यदलच्छायं खच्छं क्षिग्धं महादुचित । वृत्तायतं समं गात्रं श्रेष्टं तत् पद्मरागकम् ॥॥ विज्ञयं कुरुविन्दजमितरक्तं सुशोभनम् । सुगन्धिकात् समुत्पन्नं सौगन्धिकं हि पीतभम् ॥ नोलगङ्गाम्बुसंभूतं नीलगभ्रित्रण्ट्यहि । मांसखाडिनमं रूपैः कथ्यते नीलगन्धि तत् ॥ पद्मरागो भवेद्विप्रो वाहुजः कुरुविन्दजम् । सौगन्धिको भवेद् वैश्यो नीलगन्धि च शूद्रकः ॥

MANIKYA (RUBY). †

Its variety.

Manikya is of four kinds, viz. (1) padma-raga, (2) kuruvindaja, (3) saugandhika, and (4) nilagandhi

The best of the former is lotus-coloured (i.e. white red), transparent, gladening to the eyes, highly bright, round-shaped, smooth, and heavy

Kuruvindaja, which grows from a stone named Kuruvindam (corundum), is highly red and beautiful.

Saugandhika, which grows out of sugandhika (spinel), is yellowish red

Nila-gandhi is generally obtained from the bed of the river, Nila-ganga # It is red in colour with a bluish lustre emerging from inside.

गात्रमिति स्थूलम् ।

^{† &}quot;Ruby" is evidently a contraction of the Sanskrit "rabi-ratna" (i.e. the gen favourite to Ravi or the Sun)

t One of the tributaries of the river, Ganges, falling into "t near

This classification of the rubies is in order of their excellence

शस्तमाणिक्यस्य लक्षणम्।

गुरुत्वं स्निग्धता चैव वैमल तिरक्तता। स्वच्छता गात्रसाम्यं च दोप्तिश्च वृत्तरूपता। सर्वमेतद्विजानीयाच्छ माणिक्यलच्चणम्॥

Characteristics of good rubies

These are —heaviness, softness, freedom from stains, excess of redness, transparency, smoothness and uniformity of structure, billiance, and roundness of shape

दुष्टमाणिक्यस्य लक्षणम् ।

(१)

रन्ध्रकार्िश्यमालिन्यरौद्यावैश्यसंयुतम् । चिपिटं लघु वक्रं च माणिक्यं दुष्ट धा ॥

Defects of rubies

(1)

They are as follows —holes, ugliness, absence of lustre, roughness, absence of transparency, flatness, lightness, and deformity of size.

(२)

ह्याद्वितयसम्बन्धात् द्विच्छायं वन्धुनाशनम् ।

हिरूपं द्विपदं तेन माणिक्येन पराभवः ॥

सम्भेदो भिन्नामित्युक्तं शस्त्राघातिवधायकम् ।

ककरं कर्करायुक्तं पशुबन्धुविनाशकृत् ॥

दुग्धेनेव समालिप्तं पुटके यस्तु सम्भवत् ।

श्रशोभनं समुद्दिष्टं माणिक्यं बहुदुःखकृत् ॥

मधुबिन्दुसमच्छायं कोकिलं पिक्तीर्त्तिनम् ।

श्रशंचिनं यशो हन्ति सदापं तन् न धारयत् ॥

रागहीनं जलं प्रोक्तं धनधान्यापवाद्ात् ।

धूम्रं धूमसमाकारं वैदुयतं भयमावहेत् ॥

(2)

A ruby with two different kinds of lustre in two different parts of its surface is a destroyer of friends to its wearer. A ruby with a mark resembling crow's foot gives rise to defeat. A crack in a ruby worn causes infliction of injuries by weapons. A ruby with a piece of pebble within it causes the destruction of cattle and friends. A ruby which appears to be coated with milk in a cavity in its body causes much distress. A ruby having the lustre of a drop of honey causes the loss of longevity, fortune, and fame

द्विपदं काकपादिमित्यर्थः ।

A ruby without lustre causes the loss of riches. A ruby with the colour of smoke threatens an accident by lightning

माणिक्यस्य परीक्षा।

अप्रणश्यति सन्देहे शिलायां परिघषयेत्। घृष्टो योऽत्यन्तशोभावान् परिमाणं न मुञ्जति। स ज्ञेयः शुद्धजातिस्तु ज्ञेयाश्चान्ये विजातयः॥

Test of Ruby.

A genuine ruby does not undergo any diminution in lustre, or in weight, even if rubbed with a hard stone This is not the case with an artificial ruby.

श्रेष्ठपद्मरागस्य स्रक्षणम् ।

(१)

भानोश्च भासामनुवेधयोगमासाच रश्मिप्रकरेण

दूरम्।

पार्श्वानि सर्वान्यनुरञ्जयन्ति गुणोपपन्नाः र्

प्रसूताः ॥

Characteristics of excellent Rubies.

(1)

It is a ruby of an excellent quality which endows its surroundings with brilliance when the sun's rays are reflected upon it. Such rubies grow from quartz.

(2)

वालाककरसंस्थिक् यः शि ं लोहितां वमेत्। रञ्जयेदाश्रयं वापि स महाग्रणउच्यते॥

(2)

It is a ruby of superior worth which, at the touch of the morning sun, vomits, as it were, red flames, or dyes its surroundings with a red lustre

(३)

दुग्धे शतगुणे चिप्तो रञ्जयेत् यः समन ः। वमेच्छिखां लोहितां प ः स ः॥

(3)

It is an excellent ruby which reddens even a hundred times its weight of milk, or vomits red flames.

(용)

यो मिर्गार्ट श्यते दूराज्ञ्वलदिश्व च्छिविः। वंश नितः स विज्ञेयः भित्र किः॥

(4)

The gem which appears from a distance to be a blazing fire is called vansha-kanti. It is the giver of all wealth.

(4)

अन्धकारे महाघोरे यो न्यस्तः सन् महामिशाः। शयति सूर्य्याभः स श्रेष्टः पद्मरागकः॥

(5)

The best ruby, if kept in dense darkness, illuminates the surroundings with its rays.

कोषे तु यो न्यस्तो हिङ्ग्रह्म्ब्रह्मित तत्व्यगात्। पद्मरागवरोह्येष देवानामपि दुर्लभः॥

(6)

It is a ruby which is very rare even to the gods which, if put within a lotus, makes the latter put forth its blossoms immediately.

माणिकास्य परिमानम्।

(2)

गु माण्स्तु दशसप्तत्रिगुञ्जकान् । पद्मरागस्तुलयति यथापूटवं महागुणः ॥

Weight of rubies

(1)

A ruby of the shape of a gunja should be 10, 7, or 3 gunjas in weight. The first is better than the second, and the second is better than the third

(2)

क्रोष्टुकोलफलाकारो द्वादशाष्टाब्धिगुञ्जकान् । पद्मरागस्तुलयति यथापूट्यं महागुणः ॥

(2)

A ruby of the shape of a shrigala-kola (jackal plum) weighs 12, or 8, or 7 gunjas. Of these three, the first is more valuable than the second, and the second is more valuable than the third

(3)

वदरीफलतुल्यो यः खरदिग्वसुमाषकः। तथा धात्रीफलस्त्रिंशद्विंशतिद्वचष्टमाषकः॥

(3)

The ruby which is of the size of a sweet plum fruit should weigh 12, or 10, or 8 mashas. The one which is of the shape of an amalaki fruit should weigh 30, or 20, or 16 mashas

(8)

बिम्बीफलसमा रः षड्वसुदशतोलकः। अतःपरं प्रमाणेन मानेन न च लभ्यते॥ यदि लभ्येत पुण्येन तदा सिद्धिमवाप्नुयात्॥

(4)

A ruby which is of the shape of a bimbi fruit should weigh 6, 8, or 10 tolas. A ruby of a greater weight and dimension is not generally available

माणिक्यस्य गुणाः।

माणिक्यं दीपनं वृष्यं कफवातच्चयार्त्तिनुत्। भूतवेतालपा कर्मजब्याधिनाशनम्॥

Properties of Ruby

A ruby (duly purified and incinerated) is an increaser of digestive power. It is nutritious and destroyer of kapha, vayu, and waste. It also does away with the evil influence exerted by ghosts and other evil spirits.

अथ मुक्ता।

मौक्तिकं मुक्तिका मुक्ता लद्मीर्मुक्ताफलं च तत्। विन्दुफलं च भौतिकं तारा च जीवरत्नकम्। अन्तःसारः शशिप्रिया चन्द्ररत्नं तदेव हि॥

अस्या गुणाः। (१)

मौक्तिकं शीतलं लघु चनुष्यं बलपुष्टिदम् । कषायं तदेव खादु स्त्रीकान्तिरितविद्धि नी ॥ कफिपत्तच्यध्वंसि कासश्वासाग्निमान्यनुत् । कान्तिदं वृष्यमायुष्यं भेदि दाहविषप्रणृत् ॥ वारिधिगर्भसंजातं मौक्तिकं खलु वीर्यदम् । दीपि च पक्तिरो णां ना कं यते हि तत्॥

Mukta (Pearl).

Properties of Mukta

Pearl is cool, beneficial to eye-sight, giver of the night and nutrition. It is astringent, sweet, and increaser of beauty and affection in women. It parties an excess of vayu and pittam, and is effications in cough, asthma, and loss of the power of digestion. It increases beauty, vitality, and longevity. It is laxative and efficacious in inflammation and poison.

Pearls growing in the sea (viz. oyster-pearls, conch-pearls, and fish-pearls) are increaser of the power of digestion and pacifier of all the diseases effecting the digestive organs

भेदाः ।

द्विपेन्द्रभेकेन्द्रवराहर्ङ्कमत्स्याहिशुक्त्युद्भव वेण्जानि । मुक्ताफलानि प्रथितानि लोके तेषां तु शुक्त्युद्भवमेव भूरि ॥

Varieties of Pearls.

Pearls grow in the following —elephant, frog, boar, conch, fish, oyster, and bamboo

(क) गजमुक्ता।

ऐरावतकुलजानां पुष्यश्रवणेन्दुसूर्य्यदिवसेषु। ये चोत्तरायणभवा प्रहणेऽर्केन्दोश्च भद्रेभाः॥ तेषां किल जायन्ते मुक्ताः क्रम्भेषु सरदकोषेषु। बहवो बृहत् । गा बहुसंस्थानाः प्रभायुक्ताः॥ नैषामर्घः कार्य्यो न च वेधोऽतीव ते प्रभायुक्ताः। सुतविजयारोग्यकरा महापवित्रा धृता राज्ञाम्॥

(a) Elephant-Pearl

Elephants of noble origin are those which are of Arravata (owned by kings of descendants in ancient times), and are born on a Sunday or Monday with the moon appearing to be in the fixed star of Pushya (in the sign of cancer) or Shravana (in the sign of capricorn), at that part of the year which begins after the Winter Solstice and ends with the Summer Solstice, and at a time of the eclipse of the sun or the moon In the frontal globe on the fore-head or in the place of origin of the tusks of such an elephant grow several pearls of big size and varying structure They are very bright They should not be subjected to valuation, neither are they to be perforated. They are givers of sons, victory, and immunity from diseases should be worn by kings.

(ख) सर्पमणिः।

फणिजं मौक्तिकं रम्यं नीलच्छायं महादुचितः। शृगालकोलधातृकागुञ्जाफलप्रमाणकम्॥

शस्तेऽवनीप्रदेशे रजतमये भाजने स्थिते च यदि । वर्पात देवोऽकस्मात् तज्ज्ञेयं नागसम्भूतम् ॥

(b) Snake-pearl

A make pearl is beautiful, blue-lustred, and highly brilliant. It may be of three different sizes, and, of the size of (1) jackal-plum, (2) amalaki fruit, and (3) gunja seed.

The test of genuineness of a snake-pearl is as

Keep it in a silver pot on a clean piece of open soil. If it is a genuine snake-pearl, it will cause immediately a shower of rain falling from the ky all on a sudden, otherwise, there will be no such rainfall

(ग) मीनमुका। (१)

गुज्ञाफलसमस्यौल्यं मौक्तिकं तिमिजं लघु । पारद्वाष्ट्रष्टद्वांशमल्पकान्ति सु ुलम् ॥

(c) Fish-Pearl.

(1)

A fish pearl is as big as a gunja fruit It grows in a kind of whale living in deep oceans. It is light in weight, and has the colour of a patala flower. It is not so bright and is very globular.

(२)

तिमिजं मीननेत्राभं पूतं बहुगुगां बृहत्। जायते तत् पयोनिधेर्मव्यचराननेषु वै॥

(2)

A fish pearl has the appearance of the eyes of a fish. It is sacred, endowed with several properties, and big in size. It grows in the mouth of whales growing in mid-ocean.

(घ) वराहमुक्ता।

दंष्ट्रामूले वराहाणां शशिकान्तिनभं हि यत्। जायते मौक्तिकं तिद्ध बहुगुणं न संश्यः॥

(d) Hog-Pearl

Pearls sometimes grow at the root of the teeth of some hogs. These pearls are as bright as the moon's rays. They possess several merits

(ङ) वेणुमुक्ता ।

वंशजं शशिसंनिभं हरिच्छे तं हि तन् मतम्। रोचना कोम लघ्वी वंशजं गौरवाद दृढम्॥

(e) Bamboo-Pearl.

A pearl growing inside a bamboo plant is as bright as the moon's rays. It is greenish white in colour. (It is to be distinguished from vansa-

thand, a sugar-like substance, sometimes found made the reeds of a bamboo plant). Vansa-lochana is soft and light, whereas a bamboo-pearl is strong and heavy

(च) शङ्कमुका ।

शङ्कजं शशिसंनिभं वृत्तं भ्राजिष्णु सुन्दरम्। वृहत्ोलप्रमां तत् कपोताग् मं कचित्।।

(f) Conch-Pearl

A pearl growing in a conch-shell is as white as the moon It is globular, bright, and beautiful. It is as big as a plum fruit, and sometimes, so big 15 the egg of a pigeon

(छ) दद् रमका।

भंकशीर्षं च जायन्ते मण्यो ये कचित् कचित्। भौजंगममण्स्तुल्यास्ते विज्ञेया ब्रुधो ैः॥

(g) Frog-Pearl.

The pearls which sometimes grow in the heads of frogs are like snake-pearls

(ज) शुक्तिमुक्ता।

खात्यां स्थिते रवौ मेघैर्ये मुक्ता जलविन्दवः। शीर्णाः शुक्तिषु जायन्ते ते मुक्ता निर्मलिर ः॥

सर्वेषु मौक्तिकेषु हि हीनं स्याच् शङ्खशुक्तिजम्। मौक्तिकं जलधौ जातं वीर्यदं पक्तिरोगहा॥

(h) Oyster-Pearl

Rain drops, falling from the clouds at the time when the sun appears to be in the fixed star of swati (in the sign of Libra), if drunk by oysters, develop in course of time into bright pearls growing inside their shells

Of all sorts of pearls, those which grow in oysters and conch-shells are inferior to the rest

The pearls which grow in the ocean (viz those growing in whales, conch-shells, and oyster-shells) are strengthening and efficacious in diseases relating to the digestive organs

सर्वमौकि ं वर्णभेदः।

ब्राह्मण्स्तु सितः खच्छो ग्रहः शुक्कः न्वितः। त्रारक्तः चत्रियः स्थूल थारुणोविभान्वितः॥ वैश्य त्रापीतवर्णोपि स्निग्धः श्वेतः प्रभ⁻न्वितः। शुद्रः शुक्कवपुः सूचमस्तथा स्थूलोऽसितदुचितः॥

Classification of all the pearls according to colour.

Pearls of the best type are clear, white, heavy, and bright Those of the second class are thick, with tawny colour and brightness. Those of the third class are slightly yellow, appearing to be smeared

with oil, white, and bright. Those of the fourth

शुभमौक्तिकस्य लक्षणम्।

हादि श्वेतं लघु स्निग्धं रिश्मवन् निर्मलं त्। अ म्यानं तोयप्रभं वृत्तं मौक्तिकं नवधा शुभम्॥

Characteristics of goodpearls.

A goodpearl is agreeable to eye-sight, white, light, appearing to be smeared with oil, bright as un's rays, big in size, praised by lookers-on, clear as water, and globular

अपकृष्टमौक्ति णम् ।

रुचांगं नोज्ज्वलं श्यावं ताम्राभं लवग्गोपमम्। अद्धश्रेभं च विकटं यन्थिलं मौित् कं त्यजेत्॥

Characteristics of bad pearls.

Pearls of the following description are to be rejected —coarse, devoid of brightness, tawny-coloured, having the colour of copper, resembling salt in appearance, half-white, ugly, and full of knots

स्लेहेनेष विलिप्तं यत् तत् स्निग्धमिति गद्यते ।

चतुर्थी ।यः।

मौक्ति वेधः।

शङ्खितिमिवेग्वारग्वराह्मुजगभेकजान्यवेध्यानि। अमितगुग्तवाच्चैषामर्घः शास्त्रे न निर्दिष्टः॥

Perforation of Pearls

Pearls, other than those which grow in oysters, should not be perforated. Neither should they be set a value to, on account of their scarcity

अथ नीलम्।

तृण्याही तथा नीलं नीलाश्म सौरिरलकम्। किलङ्गे सिंहले जातं नीलोपलं श्रनिप्रियम्॥ नीलमणिद्धिधा प्रोक्तं ज ीलेन्द्रनीलके। श्क्रनीलं तयोवरं कथ्यते रत्नकोविदैः॥ श्वैत्यग्मितनी मं तज्जलनीलकम् लघु। कार्ष्णगर्भितनीलामं सभारं श नीलकम्॥ रक्तगर्भाम्बुनीलं हिर गन्धि विकथ्यते। रक्तमुखी तदेव स्यात् जलनीलेषु तद्द वरम्॥

NILA (SAPPHIRE)

This stone, in ancient times, was procured from Kalinga (modern Orissa including the western part of Bengal) and Ceylone Nila is of two kinds, viz. Jala-nila and Indranila Of these, the latter is better than the former. The sapphire which is comparatively light and emits a white lustre from inside is Jala-nila, whereas Indra-nila is comparatively heavy, and emits a black lustre from inside

The Jala-nila which contains a red lustre inside it is called Racta-gandhi or Racta-mukhi nila. It is the best of the Jala-nilas

श्रेष्टेन्द्रनीलस्य लक्षणम् ।

ए क्क्लाइं गुरु ह्निग्धं खच्छं पिगिडतविष्रहरू। मृदु मध्ये लसज्ज्यो तिः सप्तगुगोन्द्रनीलकम् ॥

Characteristics of a good Indra-nila

A good indra-nila is of uniform lustre, heavy, appearing to be smeared with an oily substance, transparent, globular, soft, with a play of brilliance inside it.

जलनीलस्य भेदाः।

कोमलं विहितं रुचं निर्भारं रक्तगन्धि च ।® चिपिटाकृति † सूच्मं च जलनीलं हि सप्तधा ॥

[#] कोमलमिति प [°]म्। विहितमित्यर्डभागेन सम्पूर्णवण-म**र्डे**न कोमळम्।

[†] चिपिटाभिमिति पाठान्तरम् द्रष्टव्यम्।

Varieties of Jala-nila

Jala-nila is of seven kinds, viz (1) that which has got a blending of five different kinds of colour, (2) that which has got a blending of five colours in the one half and only one colour in the other half, (3) that which does not appear to have an oily surface, (4) that which is light, (5) that which has got a play of red lustre inside it, (6) that which is flat-shaped (or, according to a different reading, has the glaze of a chipita or boiled rice baked and hammered into a flat-shape), and (7 that which is small-sized.

ताम्राभनीलमणिः।

इन्द्रनीलो यदा कश्चित् विभत्यीता र्णताम्। त्यजेन् न तत् तथा ग्री करवीरोत्' ुभौ॥

Copper-coloured sapphire.

A sapphire which is copper-coloured should not be discarded. That is also the case with the two minor stones, viz karabira and utpala (opal), even if they are copper-coloured

इन्द्रधनुर्नीलम् ।

यस्य मध्यगता भाति नीलस्येन्द्रायुधप्रभा। तदिनद्रनीलमित्याहुर्महार्घ्यं भुवि दुर्लभम्॥

Rain-bow sapphire

The sapphire which has got a play of rain-bow, inside it, is very precious and rare in the earth

महानीलम्।

यस्तु वर्णस्य भूयस्त्वात् चीरे शतग्रेणे स्थितः । नीलतां तन्नयेत् सर्वं महानीलः स उच्यते ॥

Maha-nıla

The sapphire, which, on account of the abundance its colour, can invest hundred times its weight milk with a blue colour is called Maha-nila or eat sapphire

अथ गोमेदमणिः।

गोमेदं राहुरत्नं च स्वर्भानवस्तमोमिणः। पि फटिकमेव तत् पीतमिणिश्च कथ्यते॥ गोमेदःसमरागत्वाद् गोमेदं रत्नमुच्यते। गोमेदः प्रियकृदु राहोरीषत् पीतारुणप्रभः॥

Gomedam (zercon)

It is a kind of quartz of a yellowish red colour omeda (literally, cow's fat) is so called simply tuse it resembles beef's tallow in colour. This e is of a reddish yellow colour

गोमेदं परीक्षणीयम् । हिमालये वा सिन्धौ वा गोमेदमिशासम्भवः । परीचा वह्नितः र्थ्या शार्गो वा रत्नकोविदैः ॥

Zercon is to be tested.

Zercon is found in the Himalayas and in the Sindhu (river Indus or province of Sind or the sea). The genuineness of this stone is to be tested by means of fire or by a whet-stone.

गेमेदम्।

सुस्वच्छगोजलच्छायं स्वच्छं सिग्धं समं ग्रह । निर्दलं मस्रणं दीप्तं गोमेदं शुभमष्टधा ॥

Good zercons.

Zercons of the following description are good — (1) having the colour of cow's urine which is very clear, (2) transparent, (3) appearing to be smeared with oil, (4) level-surfaced; (5 heavy, (6) devoid of layers, (7) smooth, and (8) bright

अशस्तगोमेदम ।

विच्छायं लघु रुचाङ्गं चिपिटं पटलान्वितम् । निष्प्रभं पीतकाचाभं गोमेदं न शुभावहम् ॥

Zercon of bad qualities

These are as follows —(1) devoid of secondary colour, (2) light, (3) rough-surfaced, (4) flat-shaped, (5) appearing to have a layer, (6) devoid of brightness, and (7) appearing to resemble glass of yellow colour.

गोमेद्स्य छायाः।

सर्वेषां मिणिर ां ज्ञायते बुधसत्तमैः। छाया चतुर्विधा श्वेता रक्ता पीताऽसिता तथा॥ गोमेदं पीतरक्तामं प्राधान्येन श्यते। छाया चतुर्विधा तस्मिन् दृश्यते नात्र संश्यः।

Secondary Colours of Gems.

Every gem has any of the following sub-colours (in addition to the predominant one) --(1) white, (2) red, (3) yellow, and (4) black This is also the case with zercons

Zercon is principally of reddish yellow colour, but it must have, in addition, any of the four sub-colours mentioned above

प्रशस्तगोमेदम् ।

गुरुः प्रभा ः सितवर्णरूपः स्निग्धो मृदुर्वाऽथ महापुराणः ।

खच्छस्तु गोमेदमणिधृतोऽयं करोति लद्मीं धनधान्यवृद्धिम् ॥

Zercon of highly excellent qualities

Such a zercon is heavy, brilliant, white, appearing to be smeared with an oily substance, soft, or very ancient (i.e., one which was metamorphosed

on the border of a country named "Kama-bhuti" (Cambodia?)

It appears to contain inside it a mark resembling a swinging scarf

वैदूर्यस्य भेदः। (१)

वैदूर्यं त्रिविधं ज्ञेयं विदूरगिरिसम्भवम् । कृष्णपीतं तथा नीलरक्तं च श्यामशुभ्रकम् ॥

Vareties of Vaidurya

This gem is of three different kinds, viz (1) yellowish black, (2) reddish blue, and (3) white black

(२)

एकं वेणु शकोमलरु मायूरक त्विषा जरिच्णपिङ्गलच्छविजुषा ज्ञेयं त्रिधा छाय । यद्गात्रं गुरुतां दधाति नि रां स्निग्धं तु दोषोज्भितम् वैदूर्यं विशदं वदन्ति सुधियः खच्छंच तच्छोभनम् ॥

(2)

Vaiduryam is of three different kinds, viz (1) of the colour of green bamboo leaf, (2) of the colour of peacock's neck, and (3) tawny-coloured like a cats' eye.

Of all these Vaiduryas, those which are commendable are heavy, smooth, devoid of the general defects (referred to before), pellucid, and transparent

वैदूर्यस्य लक्षणम्। वैदूर्यं श्यामशुभ्रामं समं स्वच्छं गुरु स्फुटम्। भ्रमच्छुभ्रोत्तरीयेण गर्भितं शुभमीरितम्॥

Characteristics of a good Vaiduryam

The Vaidurya, which is blackish-white, smooth-surfaced, transparent, heavy, bright, and appears to contain inside it a mark resembling a swinging scarf, is commendable.

अशस्तवैदूर्यस्य लक्षणम् ।

श्यामं तोयसमच्छायं चिषिटं लघु कर्कशम्। रक्तगर्भोत्तरीयं च वैदूयं नैव शस्यते॥

Characteristics of bad Vaiduryam

A Vaidurya of the following description is not commendable —(1) black, (2) water-coloured (3) flat-shaped, (4) light, (5) rough, and (6) containing inside it a mark resembling a swinging scarf of red colour

वैदूर्यस्य परीक्षा ।

घृष्टं यदात्मना च्छं स्वच्छायां निकषाश्मनि । स्फुटं प्रदर्शयेदेतद् वैदूर्यं जात्य च्यते ॥

Test of Vardurya

The Vaidurya which gains in lustre, if rubbed with a touch-stone, is a genuine one.

वैदूर्यस्य गुणाः।

वैदूर्यं रक्तिपत्तव्नं प्रज्ञायुर्वलवर्द्धनम् । पित्तप्रधानरोगव्नं दोपनं मलमोचनम् ॥

Properties of Vaidurya.

Vaidurya cures hemorrhage; increases knowledge, longevity, and strength, cures diseases due to an excess of pittam; excites power of digestion, and is a laxative.

थ वैक्रान्तम्।

वैक्रान्तं दग्धहीरकं नीचवज्रं च ताम्रकम्।
पुलकं ताम्ररलं च ताम्राश्म विकृतं तथा॥
अष्टास्रश्राष्ट्रफलकः षट्कोग्गो मस्रगो ग्रुरः।
शुद्धमिश्रितवगैश्चि युक्तो वैक्रान्त उच्यते॥

VAIKRANTA (GARNET)

Vaikranta has eight or six angles and eig facets. It is smooth, heavy, and has all so of colour, pure or mixed,

वैकान्तस्य भेदाः।

(१)

रवेना रक्तश्च पोतश्च नीलः पारावतच्छविः। रयामलः कृष्णवर्णश्च कर्वुरश्चाष्टधा हि सः॥

Varieties of Varkranta

(1)

Vaikranta is of the following different colours — (1) white, (2) red, (3) yellow, (4) blue, (5) pigeon-coloured, (6) green, (7) black, and (8) mixed

(2)

श्वे ति थार हो नीलः पा भः।

मयूरक सदृश न्यो मरकत ः॥

देहिसिद्धिकरं कृष्णं पीते पीतं सिते सि ्।

सर्वाथेसिद्धिदं रक्तं तथा मरक ्॥

शेषे द्वे निष्फले वज्ये वैकान्तमिति सप्तधा॥

(2)

Vaikranta is of the following colours —(1) white, (2) yellow, (3) red, (4) blue, (5) pigeon-colour, (6) the colour of a peacock's neck, and (7) the colour of an emerald

The black variety is beneficial to health the yellow one is to be used in the process for manufacturing gold, the white one is to be used in the

process for manufacturing silver (vide the operations of mercury in Vol I) The red variety has an all-round utility The remaining two, viz, the blue and the pigeon-coloured varieties, are abortive, and should, therefore, be avoided.

वैकान्तस्य गुणाः।

युःप्रदश्च बलवर्णकरोऽति वृष्यः ।
प्रज्ञाप्रदः सकलदोषगदापहारी ॥
दीप्ताप्रिकृत् पविसमानयुग्तस्तरस्वी ।
विक्रान्तकः ख वपुर्बललोहकारी ॥
रसायनेषु सर्वेषु पूर्वगग्यः प्रतापवान् ।
वज्रस्थाने नियोक्तव्यो वै न्तः सर्वदोषहा ॥

Properties of Varkranta (I)

Vaikranta increases longevity, strength, complexion, nutrition, knowledge, and appetite. It removes all the three doshas and the diseases. It has almost the same properties as diamond. It makes the body as strong as iron. As a rasayanam, the white one is the best. A vaikranta, devoid of all the defects, may be used in lieu of diamond.

(२)

वैक्रान्तो व सदृशो देहलोहकरो मतः। विषन्नो रसराजश्च ज्वर ष्टच्चयप्रगुत्॥

(2)

Vaikranta, like diamond, strengthens the body, nd cures poison, fever, leprosy, and phthisis. It is lso a king of the metallic drugs.

वैका गित्पत्तिस्रलम्।

विन्ध्य दिच्यों भागे ह्यूत्तरे वाऽस्ति सर्वतः। विक्रन्तयति लोहानि तेन वै न्तकः स्मृतः। वज्रलच्यासंयुक्तो दाह्या हिष्गुस्तत्॥

Mines of Varkvanta

Vaikranta is obtained in several parts of the world, and especially in mines situated on the north and south of the Vindhya Hills

The stone is so named, only because it can cut into pieces all sorts of metals (The root from which the word has been derived, viz. "krit," means to cut)

It has many of the characteristics of diamond, and can stand heating and percussion

वैक्रान्तस्य शोधनम्।

प्रथमोविधिः।

वैक्रान्तकाः स्युहि दिनं विशु ः संस्वेदिताः चारपटृनि दत्तः ।

अम्लेषु मूत्रेषु कुलस्थरम्भा-नीरेऽथवा कोद्रववारिपकाः॥

Purification of Varkranta
First process.

Vaikranta is purified, if it is boiled for one day each with a solution of ksharas and salts dissolved with (1) the amlas (vegetable acids) (2) urines, and (3) decoction of kulattha, respectively

It may also be purified, if boiled with a decoction of kodrava (a kind of grass-paddy).

द्वितीयोविधिः। कुलत्थकाथसंस्विन्नो वैक्नान्तः परिशुध्यति ।

Second process.

Varkranta is purified, if it is boiled for 3 days with decoction of kulattha.

तृतोयोविधिः ।

प्रशस्तं दम्धहीरकं ध्मापितं स रतः। निर्गुरि रसे चिपेत् प्रचाल्य खच्छवारिणा। शुद्धिमायाति तेन तत् तत च विमारयेत्॥

Third process

Vaikranta is purified, if it is heated for seven times, and immersed each time in the juice of nirgundi, and then washed off with clear water

चतुर्थोऽध्यायः।

चतुर्थोविधिः।

१६४ पृष्ठे तृतीयोविधिर्द्रष्ट्यः।

Fourth process

See Process No III, page 194

वैक्रान्तस्य मारणम् । प्रथमोविधिः ।

गन्धकं मर्द्येत् सम्यग् निम्बुद्रवेण खल्वके । वैकान्तं स्रियते पुटैरष्टाभिस्तेन लेपितम् ॥

Incincration of Vaikranta

First process

Varkranta is incinerated, if it is heated by putam for eight times, after having been smeared each time with a paste made of sulphur, rubbed well with lime juice.

द्वितीयोविधिः।

१६४ पृष्ठे तृतीयोविधि द्रेष्ट्यः ।

Second process

See Process No III, page 194

तृतीयोविधिः।

वैक्रान्तेषु च तप्तेषु हयमूत्रं विनिचिपेत्। पौनःपुन्येन वा कुर्यात् द्रवं दत्त्वा पुटेदनु। अनेनैव प्रकारेण म्रियते दग्धहीरकम्॥

Third process

Vaikranta is incinerated, if it is heated by putam as many times as necessary, after having been heated each time in the ordinary way and immersed in the urine of horse

र्थोविधिः ।

हयमूत्रेण १म सेच्यं तप्तं त्रिसप्तधा।
ततश्चोत्तर रुगः पञ्च गोलके चिपेत्॥
रुद्धा मूषापुटे पाच्यमुद्ध्यृत्य गोलके पुनः।
चिप्त्वा रुद्धा पचेदेवं वत् तद्दभस्म ं व्रजेत्॥

Fourth process.

Vaikranta is to be heated and immersed at once in the urine of horse. This process is to be performed for 21 times. The stone is then to be kept inside a lump made of the five different parts (viz root, leaves, bark, flower, and fruit) of an indra-baruni plant. The lump is then to be confined within a crucible and heated. The stone is next to be kept again inside a lump made in the same way as stated above, put into a crucible, and heated as before. The process of heating in crucibles is to be repeated as many times as are found necessary for the incineration of vaikranta.

वज्रस्थाने वैकान्तस्य व्यवहारः।

भस्मीभृतं हि वै न्तं वज्रस्थाने नियोजयेत्। मोचमोरटपालाशचारगोमृत्रभावितम्॥

Use of garnet in place of diamond.

Incinerated garnet is to be subjected to bhavana with cow's urine mixed with a kshara of the following trees —moksha, morata, and palasha.

वैकान्तस्य सत्त्वपातनः ।

(१)

व कन्द्रनिशाकलकफलचूर्णसमन्वितम्। तत्कलकं टंकणं लाचाचूर्णं वैक्रान्तसंभवम्॥ नवसारस युक्तं मेषश्रङ्गीद्रवान्वितम्। पिणिडतं मूकमृषस्थं ६ ि च हठाि ना॥ सत्तं पत्ति तत्रैव वैक्रान्त न संश्यः।

Extraction of essence of Varkranta(1)

Tuber of shurana, haridra, powdered madana fruit, tankana, powdered laksha (lac insects, ashes of vaikanta, navasara—all these are to be rubbed with decoction of mesha-shringi and made into a lump, which is to be dried, confined in a blind (or

[#] मोरटं लताकराड इति भाषा।

dumb) crucible, and then heated by a very strong fire. This will result in the issuing of essence which will be found in the crucible

(२)

सत्त्वपातनयोगेन मर्दितश्च वटीकृतः । । । । मूषास्थो घटिकाध्मातो वै न्तः सत्त्वमुत्सृजेत् ॥

(2)

Essence of Vaikranta can be extracted, if the ashes of vaikranta are mixed with the materials required for extraction of essence of all things (see page 47, Vol II) and heated in a crucible

वकान्तस्य प्रयोगः।

(१)

भस्मत्वं समुपागतो विक्तको हेम्ना मृतेनान्वितः † पादांशेन कणाज्यवेल्लसहितो गुञ्जामितः सेवितः। यच्मागां जठरं च पागडुगुदजं श्वासं च कासामयम् दुष्टां च प्रहणीमुरः चतमुखान् रोगान् जयेहे हकृत्॥

Uses of Varkranta.

(1)

Incinerated vaikranta with one fourth its quantity of incinerated gold, taken in doses of one ract

^{*} २य े४७ पृष्ठं द्रष्ट्यम् ।

[ं] वि इति वैकान्तम्।

a day with a little of powered pippali, clarified butter, and powdered biranga, cures phthisis diseases affecting the belly, anemia, fistula, piles, asthma, cough, chronic diarrhoea, cavities or rupture in the lungs, etc. It strengthens the body as well

(२)

स्तम । द्धं संयुतं नीलवैकान्तभस्मकम् । मृताभ्रसत्त्वमुभयोस्तुलितं परिमर्दितम् ॥ बौद्राज्यसंयुतं प्रातगुञ्जामात्रं निषेवितम् । निहन्ति सकलान् रोगान् दुर्जयानन्यभेषजेः । त्रिसप्तदिवसे नृणां गङ्गाम्भ इव पातकम् ॥

(2)

Two parts of incinerated vaikianta of blue colour one part of incinerated mercury, and three parts of incinerated mica are to be rubbed together. This medicine, taken in doses of one ractical day early in the morning, with a little of honey and clarified butter, cures, in 21 days only, all the diseases incapable of being cured by other medicines.

अथ स्फटिकम्।

स्फटिकं स्फाटकं खच्छं भासुरं स्फाटिकोपलम् । धौतशिला सितोपलं शालिपिष्टं शिवप्रियम्॥ निर्मलापलकं खच्छमणिश्वामररत्नकम्। निस्तुषरत्नमेव तत् ज्ञायते रत्नकोविदैः॥

स्फटि भेदाः।

अशोक वच्छायं दाड़िमबीजसंनिभम्। विन्ध्याटिवतटे देशे जायते मन्द नितकम्॥ सिंहले जायते कृष्णमाकरे गन्धनीलके। पद्मरागभवे स्थाने त्रिविधं स्फिटिकं भवेत्॥ अत्यन्तं निर्मलं खच्छं निस्तुषं क्षिण्ध त्रकम्। ज्योतिर्ज्वलनमाश्चिष्ट क्तं ज्योतीरसं हि तत्॥ तदेव लोहिताकारं राजावर्त्तं दा तम्। आनीलं तत्तु पाषाणं प्रोक्तं राजमयं शुभम्॥ त्रह्ममूत्रमयं यत्तु प्रोक्तं ब्राम्यं हि तत्॥

Varieties of Sphatika (Quartz)

Quartzes are of several varieties. The mandakanti or lack-lustre quartz grows in the forests in the Vindhya hills. They have the colour of green tendrils of asoka tree or of pomegranate seeds. The black variety grows in mines of sapphire in Ceylon

In mines of emerald grow quartz of three different variety. All of them are very clear, transparent, and free from layers. A glare of light emerge from them. The general name for all these

चतुर्थोऽध्यायः ।

sphatikas is "jyoti-rasa" Of these three, the red variety is called "rajararta" (see later), the bluish variety is called "raja-maya", and that variety which has got marks like a sacred thread upon its surface is called the "brahma-maya"

स्फटिकस्य गुणाः।

स्फटिकः समवीयेः स्यात् पित्तदाहार्त्तिशोषनुत्। तस्याचमालिकाजपादु धत्ते कोटिग्रगां फलम्॥

Properties of Sphatika

It is neither cold nor warm. It is efficacious in pittam, inflammation, impurities of the blood and wasting diseases. To count its beads in religious devotion is productive of much good.

स्फटिकनिर्म्भितजलपात्रस्य गुणाः।

स्फाटिके पेयपात्रे हि रिचतं विमलं जलम्। पवित्रं देहशीतलं पित्तस्य च विनाशनम्॥

Properties of water kept in a pot made of sphatika.

Pure water, kept in a pot made of sphatika, is cool and pacifier of pittam

अथ चन्द्रसूय्येकान्तौ ।

अभृतांशुकरप्रभं हैमादिशिखरोद्भवम् । निर्मलं च प्रभायुक्तं स्फिटकं परिकीत्तितम् ॥ तपनस्यातपस्पर्शादुद्गिगरत्यनलं हि यत् । सूर्यकान्तं विजानोयात् स्फिटिकं र म् ॥ अमृतांशुकरस्पर्शात् वा तोदकम् । दुर्लभं तं महारत्नं चन्द्रकान्तं विदुर्बुधाः ॥

THE SUN-STONE AND THE MOON-STONE

The quartzes which grow in the peaks of the Himalayas are very clear and bright like the moon's rays. Of these, the variety which emits fire on the sun's rays being reflected upon it, is called the Surya-kanta (or sun's favourite). It is the best of all the gems. There is another variety of this quartz, called the Chandra-kanta (or Moon's favourite). This is also a very precious gem, and is very rare. On moon's rays being reflected upon it, drops of water of nectar-like potency are shed by it

सूर्यकान्तस्य गुणः।

रविकान्तो भवेदुष्णो निर्मलश्च रसायनः। वातश्लेष्महरो मेध्यः पूजनाद रवितोषकृत्॥

Properties of Sun-stone

The Sun-stone is warm, clear, and rasayanam (preventer and Curer of senility and diseases). It pacifies an excess of vayu and kapha (phlegm), and increases memory The planet sun (i.e. its presiding Deity) is propitiated, if this stone is kept carefully.

चन्द्रकान्तस्य गुणाः।

चन्द्रकान्तस्तु शिशिरः स्निधः पित्तास्रतापनुत्। स्विध्येतिकरः स्वच्छो प्रहालच्मीवि शनः॥

Properties of the Moon-stone.

The moon-stone is cool, appearing to be smeared with oil, pacifier of racta-pittam (hemorrhage) and inflammation. It is pleasing to Siva—the Great Deity, and is a remover of the malignant influence of the planets * and misfortune.

च्चन्द्रकान्तोद्भवोदकस्य गुणाः।

चन्द्रकान रोन्द्रवं वारि पित्तव्नं विमलं स्पृतम्।

Properties of Moon-stone water

This water is absolutely pure and curer of excess of pittam

^{*} Properly speaking, the planets do not exert any influence, good or bad, on human destiny What they actually do is to indicate good or bad lunk to human beings (by their peculiar configuration)

अथ प्रवालम्।

प्रवालं विद्रुमं ज्ञेयमंगारकमिण था। अम्भोधिवल्लमं भौमरत्नंचैव लतामिणः। रक्ताङ्गं रक्तदेहं च जलिधगर्भकोटकम्॥

अस्य भेदाः।

श्रक्तणं शशरक्तामं कोमलं स्निग्धमेव च।
प्रवालं विप्रजातिः स्यात् सुखवेध्यं मनोरमम्॥
जवावन्यकसिन्दूरदाड़िमीकुसुमप्रथम्।
श्रिक्तग्धं कठिनं चैव दुवेध्यं चत्रमुच्यते॥
पलाशकुसुमाभासं तथा पाटलसन्त्रिभम्।
वश्यजातिर्भवेत् स्निग्धं वर्णा ं मन्दकान्तिमत्॥
रक्तोत्पलदलाकारं कठिनं न चिरद्युति।
विद्रुमं शुद्रजाति दु नैव वेध्यं सुखेन तत्॥

PRAVALAM (CORAL)

Its varieties

The best of the corals is reddish-white in colour, like the blood of a hare. It is soft, with a surface appearing to be smeared with oil, beautiful, and is capable of being easily perforated. The second class of the corals is as red as red vermillion or the java,

bandhuka, or pomegranate flower. Such a coral is stiff and its surface does not appear to be smeared with oil. It is difficult to be perforated. The third class in merit of the corals is yellowish-red like palasha or pātala flower. It has a beautiful colour, but very little glaze. Its surface does not appear to be smeared with oil. The fourth class of corals, which is the least meritorious, is blackish-red like the petals of a red lotus flower. It is hard and its lustre does not last for a long time. It is very difficult to be perforated

शस्तप्रवालानां लक्षणानि । रक्तता स्निग्धता दार्यं वृत्ताकृतिश्चिरद्युतिः । गौल्यं च व्रणराहित्यं प्रवालानां गुणा ः॥

Characteristics of good corals.

These are —(1) redness, (2) appearing to be smeared with oil, (3) capacity for being perforated, (4) globular shape, (5) lastingness of the lustre, (6) thickness, and (7) smoothness of surface

अशस्तप्रवा ं लक्षणानि । पाराडुरं धूसरं दुष्टं ङ सत्रगां कराडरान्वितम् । निर्भारं शुल्ववर्गाञ्च प्रवालं नेष्यतेऽष्टधा ॥

इष्टमिति दोषयुक्तम् १६८ पृष्ठं द्रष्टव्यम् ।

Characteristics of bad corals.

Bad corals are pale-white, grey-coloured, small rough-surfaced, full of cavities, light, and copper coloured

विद्रुमस्य कोमलत्वम् ।

नायसोक्षिख्यते रत्नं मौक्तिकं विद्रुमं विना॥

Softness of corals.

Of all the gems, only corals and pearls can be scratched upon by iron.

प्रवा गुणाः।

च्चपि ा ंदोपनं पाचनं लघु। विषभृतादिशमनं विद्रुमं नेत्ररोगनुत्॥

Properties of corals.

Pravala is efficacious in phthisis, hemorrhage, cough, eye-disease, poison, and evil influences exerted by ghosts, etc. It is light and digestive.

अथ कर्कतम्।

ें चकें मिणिश्च कथ्यते। ें श्रीप्रदं क्स्पर्शजगरना नम्॥

Karketam (chrysoberyl or chrysolite).

Used internally as a drug, or externally as an article of jewellery, it brings to its user all sorts of

Characteristics of bad corals

Bad corals are pale-white, grey-coloured, small, rough-surfaced, full of cavities, light, and copper-coloured

विद्रमस्य कोमलत्वम्।

नायसोक्षिख्यते रत्नं मौक्तिकं विद्रुमं विना॥

Softness of corals.

Of all the gems, only corals and pearls can be scratched upon by iron.

प्रवा गुणाः।

च्चिप ा ंदोपनं पाचनं लघु। ि भृतादिशमनं विद्रुमं नेत्ररोगनुत्॥

Properties of corals.

Pravala is efficacious in phthisis, hemorrhage, cough, eye-disease, poison, and evil influences exerted by ghosts, etc. It is light and digestive.

अथ कर्केतम्।

ंचक ं मिणिश्च कथ्यते। क ं श्रीप्रदं यक् स्पर्शजगरना नम्॥

Karketam (chrysoberyl or chrysolite).

Used internally as a drug, or externally as an article of jewellery, it brings to its user all sorts of

fortune and beauty. It is an antidote against infection from taking contaminated food or association with diseased persons.

कर्केतस्य भेदाः।

वर्गोन तद्दरुचिरसोममधुप्रकाशमाताम्रपीतद्दह्नो-ज्ञालितं विभाति ।

नीलं पुनः खलु सितं परुषं विभिन्नं भेदादिदोष-हरणेन न तद्विभाति॥

Varieties of karketana

Karketanam is of the following colours —(1) blood-red, (2) moon-white, (3) honey-coloured, (4) having a tinge of the colour of copper, (5) yellow, (6) fire-coloured, (7) blue, and (8) pure white

Of these, the last two, viz. blue and pure white, are coarse and full of cracks. They cannot therefore look bright even after removal of their defects.

^रतनस्य रुक्षणम्। हि धा विशुद्धाः समरागिणश्च पी र्णा ग्रुरवो विचित्राः। ग्रुट्याधिविवर्जिताश्च कर्केतना ेपर ः पवित्राः॥

Characteristics of good karketana

Karketanas of the following description are commendable —(1) oily-surfaced, (2) not mixed with foreign matters, (3) of uniform colour (4) having a tinge of yellow, (5) heavy, (6) having a play of more than one colour, and (7) devoid of such defects as erack, etc. (see page 169)

अस्य गुणाः।

पत्रेग काञ्चन े तु वेष्टियित्वा हस्ते गलेऽथ धृतमेतद् तिप्रकाशम् । रोगप्रगाशनकरं कलिनाशनं च युष्करं कुलकरं च खप्रदं च ॥ एवंविधं बहुगुगं मिग्मावहन्ति ें नं लङ्कतये नरा ये । ते पूजिता व धना बहुबान्धवाश्च नित्योज्ज्वलाः प्रमुद्तिता ऋषि ते भवन्ति॥

Properties of karketana.

A bright karketana, if put on with a golden foil, causes the cure of diseases, does away with the possibility of troubles and anxieties, and increases longevity, children, and happiness.

Those who put on such a good gem acquire respect from people, riches, many friends, beauty, and good health.

अथ पुष्परागः।

पीताश्म गुरुरत्नं च वाचस्पतिप्रियस्तथा।
पीतरत्नं प्रसूनाभो मञ्जुमिणिश्च पीतकम्।
पुष्परागो हरिद्रामं पिङ्गस्फिटिकमेव च॥
पुष्परागमिणिद्विधा सञ्यो ज्ञायते बुधैः।
पद्मरागाकरे कश्चित् कश्चित् ताच्यों करे॥
ईषत् पीतं च वज्राभं स्वच्छं न्त्या मनोहरम्।
पुष्परागमिति प्रोक्तं चन्द्रसेनमहीभुजा।
पुत्रधनप्रदः पुण्यः पुष्परागमिणिर्धृतः॥

PUSHPARAGA (TOPAZ).

Pushpa-raga can be obtained in two different cinds of mines, viz in mines of ruby and in those of smeralds Pushparaga, according to king Chandra Sena, the chemist,* is yellowish, transparent, and bright like a diamond. It brings son and wealth to its wearer

रत्नान्तरेभ्यः पुष्परागस्य विभेदः।
आपीतपाराडुरुचिरः पाषार्गाः पुष्परागसंज्ञस्तु ।
होरराटकनामा स्यात् स एव यदि लोहितापीतः ॥

^{*} For a brief history of Indian Chemistry, see Chapter III, page 46 of the author's book entitled "Indian Civilization and its Antiquity"—(Price Rs 2 India)

आलोहितस्तु पीतः खच्छः काषायकः स एवोक्तः। आनीलशुक्कवर्णः स्निग्धः सोमालकः खगुर्णेः॥ अत्यन्तलोहितो यः स एव खलु पद्मरागसंज्ञः स्यात्। अपि चेन्द्रनीलसंज्ञः स एव कथितः सुनीलः सन्॥

Distinction of pusparaga from the other gems

The stone which is yellowish-pale and bright is called "pusparaga" It is called "kaurantaka", if it is yellowish-red in colour It is called "kashaya", if it is reddish-yellow and transparent. It is "somalaka", if it is bluish white and smooth. The stone which is very red is a ruby, and that which is deep-blue is a sapphire

पुष्परागाणां छायाः।

ञ्चाया चतुर्विधा य सिता पीताऽऽसिताऽसिता।

Sub-colours of Topazes.

They are (1) white, (2) yellow, (3) pale-white, and (4) black

शस्तपुष्परागस्य लक्षणम्।

पुष्परागं ग्रह स्वच्छं स्निग्धं स्थूलं समं मृदु । कर्णिकारप्रसूनामं मस्टणं शुभमष्टधा ॥

Characteristics of good Topaz.

A good topaz is heavy, transparent, appearing to have its surface smeared with an oily substance,

thick, well-shaped, soft, having the colour of a karnıkara flower, and smooth

अशस्तपुष्परागस्य लक्षणम् ।

कृष्णविनद्वं कितं रुचं धवलं मलिनं लघ्। विच्छायं शर्करागारं पुष्परागं सदोषकम् ॥

(2)

निस्प्रभं कर्कशं रुचं पीतं श्यामं नतोन्नतम् । कपिशं कपिलं पागडु पुष्परागं परित्यजेत्॥

Characteristics of a bad Topaz.

(1)

A defective topaz has got black spots on its surface, is rough, white, devoid of lustre, light, devoid of a sub-colour, and has sugar-like spots.

(2)

A bad topaz is devoid of lustre; it is coarse, rough, yellow, black, having an undulating surface, brown or reddish brown, tawny, and pale-white

पुष्परा गुणाः।

पुष्परागं विषच्छदिकफवाताग्निमान्यनुत्। दाहकुष्ठास्त्रशमनं दीपनं पाचनं लघु ॥

Properties of pushpa-raga

Pusppa-raga is efficacious in poison, nausea, excess of phlegm and vayu, loss of digestive power, inflammation, leprosy, and hemorrhage. It is easy to digest

श्रथ राजावर्त्तः ।⊛

(१)

राजावर्त्तोऽल्परक्तोरुनीलिकामिश्रितप्रभः। गुरुश्च मस्रणः श्रे दन्यो मध्यमः स्मृतः॥

RAJAVARTA (QUARTZ AMETHYST— LAPIS LAZULI)

(1)

The best type of this stone (which is a kind of quartz) has a blue colour with an admixture of slight red. It is heavy and smooth Rajavartas of different description are inferior to these.

(2)

निर्गारमसितमसृणं नीलं ग्रह निर्मलं वहुच्छायम् । रिस्ट्रिहरू ७६८५६ोम्यं राजावत्तं वदन्ति जात्यमणिम् ॥

(2)

A genuine rajavarta is devoid of dirt, devoid of whiteness, smooth, blue, heavy, clear, having various sub colours, and beautiful like the neck of a pea-cock.

एष एव स्फाटिकभेदः । २३६ पृष्ठं द्रष्टव्यम् ।

राजावत्तेस्य गुणाः।

(१)

प्रमेहच्चयदुर्नामपागडुश्लेष्मानिलापहः। दीपनः पाचनो वृष्यो राजावर्त्तो रसायनः॥

Properties of Rajavarta $\begin{pmatrix} 1 \end{pmatrix}$

Rajavarta is efficacious in gonorrhoea, waste, piles, anemia, phlegm, and vayu. It increases the power of digestion, is nutritious and curer and preventer of diseases and senile decay.

(2)

राजावर्त्तो गुरुः स्निग्धो शिशिरः पित्तनाशनः । सौभाग्यं कुरुते नृणां भूषणेषु प्रयोजितः ॥

(2)

Rajavarta is heavy, smooth, cool, and pacifier of pittam It brings fortune to its wearer

राजावर्त्तस्य शोधनम् ।

प्रथमीविधिः।

निम्बुद्रवैः सगोमृत्रैः सन्तारैः स्वेदिताः खलु । द्वित्रवारेगा शुध्यन्ति राजावर्तादिप्रस्तराः ॥ Purification of Rajavarta.

First process

Rajavarta and similar stones are purified, if they are boiled for two or three times with lemon juice mixed with cow's urine and ksharas

द्वितीयोविधिः।

शिरीषकुसुमाद्रं करसेन भावितोऽथवा । द्रवेन तेन सुस्विन्नो राजावर्त्तो विशुध्यति ॥

Second process.

Rajavarta is purified, if it is subjected to bhavana with the juice of shirisha flower mixed with ginger juice, or if it is boiled with the same liquid.

राजा भारणम्।

लुङ्गाम्बुगन्धकोपेतो राजावत्ती विचूिणतः। पुट त् सप्तवारेण मृतो भवति निश्चितम्॥

Incineration of Rajavarta

Rajavarta is incinerated, if it is powdered and subjected to heat by putam for seven times, after having been rubbed each time with the juice of matulunga and sulphur

रा ६ सत्त्वपातनः ।

राजावत्तेस्य चूर्णं तु कुनटोघृतिमिश्रितम् । विपचेदायसे पात्रे महिषीचीरसंयुतम् ॥ सौभाग्यपञ्चगव्येन पिगडोवद्धं तु कारयेत् । ध्मापितं खदिराङ्गारै सत्त्वं मुञ्जति शोभनम् ॥

Extraction of essence of Rajavarta

Powdered rajavarta, mixed with manas-shila, clarified butter, borax, cow's milk, cow's curd, cow's urine, and cow's stool, is to be boiled with a sufficient quantity of buffalo's milk in an iron pot and made into a lump. This is to be heated by means of a fire made of knadira wood, resulting in essence of rajavarta coming out of the lump

अनेन क्रमयोगेन गैरिकं विमलं तथा। क्रमात् पीतं च रक्तं च सत्तृं जित शोभनम्॥

In this way, essences of yellow and red colour respectively, can be obtained from gairika (red ochre) and vimala (red pyrites).

अथ भीष्मरत्म् ।

हिमाद्रिप्रतिबद्धं हि शुद्धं भीष्ममणिं खलु । विभक्तिं श्रद्धया यस्तु स सर्वां भूतिमाप्नुयात् ॥ गुग्गयुक्तस्य तस्यैव धारणाद्धि यथाविधि । विषाणि खलु नश्यन्ति सर्वान्येव महीतले ॥ वाधन्ते तं न कुञ्जरसर्पादिहिंस्रजन्तवः । जलाग्निदस्थुवैरिणां भीतिस्तस्य विनश्यति ॥

BHISMA-MANI (A KIND OF ANTI-POISONOUS QUARTZ)

The man who wears a pure bhisma-mani, obtained from the Himalayas, acquires all sorts of objects of desire. The wearer of this gem becomes free from the effects of all sorts of poison such ferocious animals as lion, snake, etc can do him no mischief. He has nothing to fear from water, fire, robbers, and enemies

अशस्तभीस्मरत्नम्।

सैवालवलाहकामं परुषं पीतप्रमं प्रभाहीनम् । मलिनद्रुतिं विवर्णं दूरात् परिवर्जयेत् प्राज्ञः॥

Bhisma-mani, unfit for use

Bhisma-mans of the following description are to be avoided —(1) Those which have the colour of moss, (2) those which have the colour of the balahaka bird (a kind of crane), (3) rough, (4) yellowish, (5) devoid of lustre, (6) black-lustred, and (7) discoloured

नीलमणेग्णाः।*

श्वास सहरं वृष्यं त्रिदोषव्नं सुदी म्। विष रदुर्नामपापव्नं नीलमीरितम्॥

Properties of sapphire †

A sapphire, duly incinerated, is a curer of asthma and cough. It is nutritious, pacifier of the three doshas, increaser of power of digestion, and destroyer of visama-jwara (malaria, black fever, etc.) piles, and vicious tendencies of the mind

अधोपरत्नानि ।

विविधान्युपर नि श्रेयस्तेषां तु सप्तकम् । पालङ्कां रुधिरं पूचि तार्चाजं पीलु चोपलम् ॥ सुगन्धिकं च सप्तेतद् दामहीनानि तानि वै ।‡ तु सर्वानि युज्यन्ते रसे रसायने तथा ॥

Uparatnas Amorphous stones,

There are innumerable minor or amorphous stones The best of all these are the following — (1) palanka (onyx), (2) rudhiram (carnelian) (3)

* एतदेव २२० पृष्ठे महानीलिमित्ये ानन्तरं संनिवेश्यम् परन्तु प्रमादात् न तत् साधितम् ।

[†] This should have been inserted in page 220, after "maha-mla" or great sapphire

इामेति प्रकृत्या खण्डितं सिविश्रहं दानेति भाषा ।

puttika (peridote), (4) turkshajam (turquoise—biraja or peroja *), (5) pilu (jade) (6) upalam (opal, chalcedony, and agate), and sugandhikam (spinel).

All of these are amorphous or uncrystallized in hape. They are to be incinerated carefully, and applied in mercurial operations as well as in medicines.

अथ पालङ्गम्।

श्वेतले समन्वितं कृष्णं पाषाणकं हि यत्। स्निम्धं हि मस्यणं चैव पालङ्कः तत् जीर्त्तचते॥ स्रस्तिमसिताभासं तथा च धूमवर्णकम्। पालङ्कः त्रिविधं तत्तु संयुतं श्वेतरेखया॥ रेखाणां केव अथवा बह्वी तत्र प्रदृश्यते। धारणात् प्रचुरां श्रियं दत्ते स प्र रः खलु॥

PALANKA (ONYX).

Palanka is a black stone with a white line drawn upon it Its surface is smooth and appears to be smeared with oil Palanka is of three different kinds, viz black, pale-black, and ash-coloured. Each of them has a white and rope-like line drawn upon it Sometimes there are more than one of such white lines.

^{*} The Persian epithet "peroja" is evidently a contraction of the Sanskrit "biraja", meaning green as "biraja" (durva grass).

अथ रुधिरम्।

इन्द्रगोपनिभं रक्तं शुकवक्त्रसमं रुचौ ।
मध्येन्द्रपागडुरं शक्रनीलाभपटलं तथा ॥
ग्रहीतबहुमूर्त्तिकं विशुद्धवर्णसंयुतम् ।
प्रकटपीलुवन् मानाद् रुधिराख्यं हि रत्नकम् ॥
ऐश्वर्यकान्तिभूतिनां दाता तत् स्क्ष्ण्रहृकम् ।
पक्रमेतद् भवेद् वज्रसदृशसुन्दरच्छवि ॥

RUDHIRAM (CARNELIAN).

Rudhiram is as red as an insect, named indragopa (mukmuli), or the mouth of a shuka bird (a kind of parrot) The inner part of this gem is as white as the moon, and the sides have the colour of an indra-nilam. It has a pure colour, and it can be given several shapes. It has the weight of a fully grown pilu fruit. This stone, when fully developed, may take the colour of a diamond.

It brings wealth and beauty to its wearer.

अरथ पृत्तिका।

हरिद्वर्णा च पीताभा मरकतानुकारिणी।
पूत्ति पुत्रिका सा च कोमला च प्रभान्विता॥
चौमेण व घृ दीप्तिं त्यजित पृत्तिका।
दीप्तिर्भरकतस्य हि घृष्ट्या चौमेण व ैते॥

PUTTIKA (PERIDOTE).

Puttika is yellowish-green, and resembles emerald in colour. It is soft and bright. It can be distinguished from emerald by being rubbed with a silken cloth, which reduces its lustre, whereas an emerald becomes brighter, if rubbed in this way.

अथ तार्चजम्।

तार्च्जं हरितश्यामं भस्माभहरितं तथा।
तदेवाति यं च मधुरं दीपनं परम्॥
स्थावरं जंगमं चैव तथा संयोगजं विषम्।
तत्सवं नाश्येत् तथा शृखं भूतादिपीड़नम्॥

TURKHAJA (TURQUOISE_BIRAJA)*

Turkhaja is of two kinds, viz. greenish-black, and ash-coloured green. It is astringent, sweet, and digestive. It removes all sorts of poisons, organic, or inorganic, and is efficacious in colic and troubles due to evil spirits.

अथ पी ।

मरकतरामे वर्णात् तत् रहितो मणिः। पीलुन स विज्ञेयो चीन पत्रियो मतः॥

^{*} Originally obtained from Turkey The Persian name peroja is a contraction of Sanskrit, "biraja",

ज्ञ बुद्धिमतिस्थैर्य्यदायकोऽसौ मिण्मितः। रक्तिकामानतो देयं तद्दभस्म शूलजे गदे।

PILU (JADE)

This resembles an emerald in colour but not in brightness. The Chinese and the Japanese are specially fond of this stone. It is a giver of wisdom, intelligence, and stability of mind. Incinerated pilu, taken in doses of one ractical day, cures colic

अर्थोपलम् ।

लं त्रिविधं ज्ञेयं मर्म्मराश्म वरोपलम्।
तथा रुधिरपालङ्कां सर्वं दामविवर्जितम्॥
रं समवर्णं हि वरोपलं तथैव च।
मर्मरे न प्रभा काऽपि वरोपलं बहुप्रभम्॥
ख्यातं रुधिरपालङ्कां ब वर्णं बहुस्तरम्।
छायाहीनं तदेव विचित्रवर्णाचित्रयुक्॥
शेतकृष्णविमिश्चिं धूम्रं च हरितं सितम्।
मर्मरं दृश्यतेऽथवा वर्णान्तर युतम्॥
पाषाणं सि ं कर्पूरमणिरुच्यते।
सितं नोलसितं णं रक्तं चेन्द्रधनुर्निभम्।
वर्णान छाय चैव दृश्यते हि वरोपलम्॥
दामहीनमणीनां च कृष्णं रमुच्यते॥

UPALAM (CHALCEDONY, OPAL, AND AGATE)

It is a general name given to three different kinds of stones, viz. marmarashman (chalcedony), baropala (opal), and rudhira-palanka (agate.)—all of these are amorphous or uncrystallized.

Chalcedony as well as opal has one uniform colour, but the former has no sub-colour or radiance, whereas opal has various sub-colours. Agate has several colours and several layers. It has no sub-colours, but it has variety of colours and figures impressed upon it. Chalcedony or marble stone has only one of the following colours.—White-black, smoky, green, white, etc. White variety of chalcedony is called "karpura-mani" or camphor-stone. Opal has any of the following colours.—White, bluish-white, black, red, rain-bow-colour. Each opal may have one or more of these as sub-colour.

The black variety of all the amorphous stones is called "bhramara-mani" or black-bee stone.

अथ सुगन्धिकम्।

बहुविधं सुगन्धिकं नीलं कृष्णं च लोहितर ।

रम्मूर्यस्य वापि सर्वं पीतप्रभान्वितम् ॥

स्वच्छं मा रं सुदृशं हि तत् ।

माणिक्यनीलर करे यते हि तत् ॥

SUGANDHIKAM (SPINEL).

Sugandhikam is of various colours, viz. blue, black, red, etc. Each of these stones has a yellowish sub-colour. It is transparent, beautiful, and of the shape of a diamond. It grows in mines of rubies and emeralds

उपरतानां सामान्यगुणाः।

उपरत्नं वरं यत् तु तत् किश्चित् सूयते फलम्। ईषदुरत्नगुणं तत् तु विभर्त्तीति विदां मतम्॥

General Properties of Amorphous Stones.

The amorphous stones, if devoid of defects, are regarded to have a part of the properties of the gems (see page 195

पञ्चमोऽध्यायः ।

अथ चाराः।

चरित यो मलं शीघं तत्चार इति उच्यते। चारत्रयं स ख्यातं यावखर्जिकटं म्।। टंकनोषरकं चापि यवचारश्च खर्जि । चारचतुष्टयमेतद् परिचितं सदा मृवि॥

शमोचकचारौ यवचारः वर्चिका। तिलनालोद्भवः चारर्ै ।नि चारपञ्चकम् ॥ खर्जिटंकनर्षरं त्रितयं भौम च्यते । लभ्यन्ते तानि मृन्मध्यात् चारपाकि करैः॥ अन्ये तु ः चारा भर संज्ञिः नवसारोऽपि विज्ञेयः चारोत्तमो । विभिः॥ द्रव्याद्धि पच्यमानाः तजायते इति पाकिमः। सुतगुणांश्रसंपर्कात् स एवो सो मतः। पताशाश्वत्थमोत्तजा धवस्नूहीमयूरजाः। चन् प्रदाहर्भेष्टहरू होंदाफ होषोद्धवाः॥

तिलनालसमुत्पन्नो यवश्कोद्भवोऽिप च।
वासापत्रोद्भवश्च यो दुरालभाभवश्च वै॥
व्यान्नीमृलकचित्रकपुनर्णवार्द्र जाश्च ये।
एते सर्वे प्रयोजिता भेषजेषु यथाविधि॥
ब्रान्येभ्यो बहुवृत्तेभ्यो लतागुल्मतृणादितः।
चारो संजायते सम्यग् वच्यमानविधानतः॥
यावस्वज्यूषराश्चैव पाकिमं टं तथा।
पञ्चैतत् चारवर्गेषु विख्यातं चितिमग्डले॥

CHAPTER V.

Kshāras (Alkalıs)

The word "kshāra" is derived from the root "kshar", meaning "to remove". The word is so named, simply because it removes dirt.

The following are the three ksharas:—(1) javakshara (a potassium carbonate prepared from the ashes of barley-ears), (2) swarjı (refined natron), and (3) tankana (borax)

The following are the four ksharas:—(1) swarji (refined natron), (2) ushara (sora—saltapetre—a sodium nitrate), (3) java-kshara, and (4) tankana

The following are the five ksharas —(1) kshara prepared from palasha wood, (2) that from mokshaka (ghanta pātalı) wood, (3) java-kshara, (4) swarji kshara, and (5) the kshara obtained from the tila (sesamum) plant

Of all the ksharas, only swarji, tankana, and ushara are obtained from the earth. The rest of the ksharas are extracted from ashes of wood, leaves, etc of trees, plants, creepers, shrubs, and grass

Nava-sara (sal-ammoniae) is also a kshara but it is generally classed with the uparasas, simply because it possesses, to a certain extent, some of the properties of mercury (See page 215, vol, II) It is also called "pakima!" (from root "pach", meaning to putrefy), simply because it is obtained from materials in a state of putrefaction or decomposition

Ksharas obtained from the following are also well-known and widely used —trees or plants of the name of palasha, aswattha, ghanta-patali, dhava, snuhi, apamarga, chanaka-plant, arka, covers of tamarınd beans, sesamum plant, ears of barley, basaka, duralabha, kantıkarı, mulaka (raddish), chitraka, punarnava, and ardraka (ginger).

There are many other trees, plants, shrubs creepers, and grass from which ksharas may be prepared by the method to be described below

Of all the ksharas, the most widely known are the following —(1) java-kshara, (2) swarji (refined natron), (3) usara (nitre *), (4) nava-sara, and (5 tankana (borax)

^{*} The colloquial Indian name for nitre is sora or soraka, which are t corrupted forms of the sanskrit usara and usaraka, respectively, all these words being synonymous. Now, usara (or usaraka) is a word where the been in use in its present sense even from the pre historic times. The word is to be found in every sanskrit dictionary, modern or ancient, a even in sushruta.

पञ्चमोऽध्यायः।

सामान्येन श्लाराणां गुणाः।

(१)

तीच्णा उष्णाश्च दीपका ल ः क्लेद था। दाहकारछेदनारचैव चाराश्च ज्ञायते वुधैः॥ क्रिमिन्ना व्रणदारणाः शोधनाः रो । था। चारा मुखकराः सर्वे जानाति रसकौतुकी॥

In this connection, it would be amusing to note how some of the Indian Allopaths, and their sympathisers, not conversant with sanskrit, which was the language of their fore-fathers and not caring to study the Indian system of medicine, sometimes rush into opinions which are simply ridiculous. Let us quote here a few lines from Dr. U. C. Dutt's "Materia Medica of the Hindus" (pp. 89—90).

"Nitre was unknown to the ancient Hindus There is no recognized name for it in sanskrit * * * Some ancient sanskrit formulas for the preparation of mineral acids containing nitre mention this salt under the name of "soraka' This word, however, is not met with in any sanskrit dictionary and is evidently sanskritized from the vernacular "sora", a term of foreign origin The manufacture of nitre was therefore most probably introduced into India after the adoption of gun-powder as an implement of warfare"

These are the remarks made by an Indian Allopath who wrote a book on the materia medica of the Hindus, without acquiring an adequate knowledge of the subject. This indicales a state of things which occurs probably in India alone.

The domga that nitre was unknown to the ancient Hindus is not based on facts. It will be evident from a passage (quoted by Dr Sir P C Roy in his History of Hindu Chemistry, (Vol I, - pp 184 185, footnote) in a work entitled. 'The Travels of John Albert de Mandelso from Persia into the East Indies, London 1669,' that salt petre used to be manufactured in the middle ages, at the latest, in large scales in India whence it was brought into Europe

We propose to prove elsewhere that the use of gun-powder was quite known to the Hindus even at the time of the composition of the oldest portion of the Vedas गुल्माशों यह गाँदोषशर्कराश्मरीनाशनाः । चारास्तु पाचनाः सर्वे रक्तपित्तकराः स्मृताः ॥

(?)

श्रानुशस्त्रेभ्य चारः प्रधानतमश्रुं द्यभेद्यलेख्य करणात् त्रिदोषव्यत्वाद् विशेषिक्रयावचारणाच । नानौषिधसमवायत्वात् त्रिदोषव्यः । स खल्वाग्नेयौ-षिधगणभूयिष्ठत्वात् कटुक उष्णस्तीच्णः पाचनो विलयनः शोधनो रोपणः शोषणः स्तम्भनो लेखनः किम्यामकफकुष्ठविषमेदसामुपहन्ता पुंस्त्वस्य चातिसेवितः ।

General Properties of the ksharas

(1)

The ksharas are acrid, warm, increasers of appetite, light, moistening, causing inflammation, reducers of phlegm, destroyers of worms, openers of boils, and cleansers and healers of sores

The man who is conversant with the mercurial operations knows that ksharas give rise to hunger in mercury. The ksharas are efficacious in gulma, piles, chronic diarrhoea, diabetes, and stone disease. They are digestive and increaser of hemorrhage.

(2)

The ksharas are better than surgical instruments in as much as the former, like the latter, can serve

the purpose of incision, tapping, and scratching: and unlike the latter, can remove the three doshas, and have several other utilities as well. The ksharas may be remover of the three doshas owing to their being combined with the necessary drugs. They, on account of their being prepared from several herbs with fiery qualities, are pungent, warm, strong, digestive, remover of tissues, etc., purifier of sores, causing granulation in sores, drier up, causing steadiness, reducer of fat, and destroyer of worms, mucus, phlegm, leprosy, poison, and fat. They also destroy manly vigour, if taken in excess

भस्मजक्षारिनर्माणस्य सा विधिः।

चारवृचादिजं काष्टमथवा पत्रराशिकम् ।

शुष्कं सर्वं समाहृत्य वहाँ प्रष्टाख्येत् सुधीः॥

नौत्वा तद्दभस्म मृत्पात्रे थेकप्रमितं खलु ।

तत्र चिप्त्वा ंशुद्धं द्रोणमानं विलोड़येत्॥

त तद्द धारयेद्द रात्रौ प्रातरच्छं जलं नयेत्।

तज्जलं स्नावयेद्द यलात् सप्तशः पृथुवाससा॥

तिरं काथयेद्द वहाँ यावत् सर्वं विशुष्यिति।

ततः पात्रात् समुल्लिख्य चारो ग्राह्मः सितप्रभः॥

चूर्णाभः प्रतिसार्यः स्थात् पेयः स्थात् काथवत्स्थितः।

इति चारद्वयं धीमान् युक्तकार्येषु योजयेत्॥

General Process of manufacturing kshara *
from ashes

The wood, leaves, etc of an alkaline tree, plant. etc are to be burnt to ashes One prastha (64 tolas) of these ashes is to be dissolved with 16 times its weight of water which is to be allowed to settle for about 12 hours The clearest part of the solution is next to be filtered for seven times through a piece of thick cloth The water, thus filtered, is next to be heated till the whole thing gets dried up The white-coloured solid product is then to be taken out and kept carefully solution, just before it is solidified, is a liquid alkali, used for drinking (in special diseases according to directions found in Sushruta). The solid product is an alkalı to be used for external application (according to the instructions given in Sushruta) and as an ingredient of medicines.

यवचारः।

अस्य नामानि ।

यवचाराभिधः स हि चारोत्तमश्च कथ्यते यवायजो यवापत्यं यवजो यवलासकः । पाक्यश्च यवशुकज यावश्च यवनालजः॥

^{*} The word kshara has undergone a gradual process of transformation as follows:—khara—kharı—kalı—kılı—alkılı—alkılı

निर्माणविधिः।

यवशुकोद्भवं भस्म वियत्वा यथाविधिः। पूर्वोक्तेन विधानेन चारो निर्मीयते जनैः॥

JAVA-KSHARA.

Its preparation

Ashes of the ears of barley are to be dissolved h water, which is to be filtered and condensed heating in the afore-said way. The product java-kshara.

अस्य गुणाः।

यवचारः कटुः स्निग्धो लघ्ष्णास्चमवहिकृत्। सारको सूत्रकारको व तश्लेष्मप्रशान्तिकृत्॥ स्रानाहमहणीपागडुगुल्मार्शः श्वासशूलक-प्लीहहृदामरोगानां तथा शुक्रस्य नाशनः॥ ज्ञेयो वहिसमः चारो नियतं यवशूकजः॥

Its properties

Java-kshara is pungent, soft, light, capable of asily spreading through all parts of the system, ligestive, laxative, discharger of urine, and pacifier of vayu and kapha. It is efficacious in the following liseases —intestinal obstruction, chronic diarrhoea, anemia, tumour in the belly, piles, asthma, colic, enlargement of the spleen, heart diseases, and mucus.

It does away with semen and has the properties of fire

पाकिमक्षारस्य गुणाः।

मेदोव्नः पाकिमः चारो मूत्रवस्तिविशोधनः।

Properties of pakima (nava-sara).

It reduces fat and purifies the kidneys

भौमक्षाराः।

(१) ऊषरचारः।⊛

अस्य निर्माणविधिः।

गङ्गातीरमृदं वाऽपि लवणाक्तं मृदन्तरम्। विलो सिलले शुद्धे गालयेत् पृथुवाससा।। धारयेत् सिललं तच्च रजन्यां मृद्घटे धीः। तन्नीरं थयेत् वहौ यावत् सर्वं विशुष्यति॥ ततः प त् समुक्षिष्य चारो ह्य सितप्रभः। ऊषरं कथ्यते तचु शिलाजतृषराभिधम्॥

KSHARAS OBTAINED FROM THE EARTH.

(1) USARA OR SORA (SALT-PETRE)

Earth, taken out from the banks of the Ganges, or any other salty earth is to be dissolved with pure water and then filtered through a piece of

इतीयखण्डे १०४ पृष्ठे ऊषराख्यं शिला द्रष्ट्यम् ।

(२) स्वर्जिन्हारः। अस्य नामानि।

र्ग्राजिचारः सुवर्चिका कपोतः सुखवर्चिः । र्ग्जिश्च स्वर्जि ेे सुवर्चिश्च सुवर्चेकः ॥

निर्माणविधि ।

विष्ठि गिरिष्टि षु भूतले वा तदन्तिके। श्यते चारमृत्पूणं भूस्तरं भूरिमानतः॥ वर्जिमृत् क कथ्यते तच्च चारेतरपदार्थयुक्। नंग्रह्य मृत्तिकां तां च मृत्पात्रे स्थापयेत् ततः॥ वतुर्गुगाजलेनैव मृत्तिकां तां विलोड़येत्। नन्नीरं स्नावयेद यलाद बहुशः पृथुवाससा॥ रूर्वनोक्तप्रकारेण काथयेत् तज्जलं ततः। इत्थं संजायते चारः खजिकाह्वो मनोहरः॥

) SWARJI KSHARA (REFINED NATRON)
In certain hills or in places adjacent to hills, ers of alkaline soil are to be found in abundance s soil is called swarji-mrit (natron). It contains aline mud with foreign matters. Some quantity this earth is to be dissolved with four times weight of water. The solution is next to be

[#] साि टीति भाषा।

हर्षदो किन्द्रके कश्चोदगारशोधक था। विवन्धानाहशूलेपु गुल्मामिकमिवायुषु ॥ ऊर्द्धानिले विशेषेण शस्तः स्यादृषरो मतः॥

Its properties.

Ushara is a pacifier of vayu. It is moistening, destroyer of strength, increaser of appetite, laxative, soft, easily capable of spreading throughout the whole system, a little increaser of pittam, light, increaser of laugh, disgestive, and purifier of elching winds

It is also efficacious in the following —constipation, intestinal obstruction, colic. gulma, mucus, worms, and, especially, wind moving upwards.

मिश्रचारः।

पूर्वोक्तेन मृदा सार्छं चारशिल्पी विमिश्रयेत्। तृणानां प्रचुरं भस्म कचिद् वा चार ये॥ श्रनेन निर्मितः चारो मिश्राभिधो विकथ्यते। स्वर्जिना सहितं चेत्थं तृणभस्म विमिश्रचते॥

Mixed kshara.

Manufacturers of kshara sometimes mix with the mud, referred to above, a sufficient quantity of ashes of grass in order to increase the quantity of the kshara to be produced. The distilled solution of mud and ashes is to be heated, and condensed into a mixed kshara, in the manner described above

(२) खर्जिचारः।

नामानि।

र्गिचारः सुवर्चिका कपोतः सुखवर्चकः ।

रिजिश्च स्वर्जि चैव सुवर्चिश्च सुवर्चकः ॥

नि विधि।

खित्वह गिरिष्टष्ठे षु भूतले वा तद्दिन्तके। श्यते चारमृत्पूणं भूस्तरं भूरिमानतः॥ शर्जिमृत् ॐ कथ्यते तच्च चारेतरपदार्थयुक्। गंग्रद्य मृत्तिकां तां च मृत्पात्रे स्थापयेत् ततः॥ शतुर्गुगाजलेनेव मृत्तिकां तां विलोड्येत्। श्वीरं स्नावयेद यलाद बहुशः पृथुवाससा॥ श्वीत्तेक्तप्रकारेण काथयेत् तज्जलं ततः। श्थं संजायते चारः खजिकाह्वो मनोहरः॥

) SWARJI KSHARA (REFINED NATRON)

In certain hills or in places adjacent to hills, its of alkaline soil are to be found in abundance. soil is called swarji-mrit (natron) It contains aline mud with foreign matters. Some quantity this earth is to be dissolved with four times weight of water. The solution is next to be

[#] साः टीति भाषा।

distilled for several times through a piece of thick cloth. The solution, thus distilled, is next to be heated and condensed into solid alkaline substance, called swarji-kashara.

गुणाः ।

स्वर्जिका विह्नसंतुल्या यवचारसमा हि । कटूष्णतीच्णवीर्या च कफानिलविनाशनी ॥ गुल्माध्मानोदरव्रणिकिमिषु सा प्रश ते । शुक्रश्वासविबन्धार्शीयकृत्भीहिनसूदनी ॥

Its properties.

Swarji, like java-kshara, has the properties of fire. It is pungent, warm, and acrid. It pacifies kapha, and vayu, and is efficacious in gulma, flatulence of the stomatch, diseases of the belly, boils, worms, asthma, intestinal obstruction, enlargement of the spleen and the liver. It impairs semen.

कृत्रिमखर्जिक्षारः।

चद्रदुरालभाचारो दुरालभाभवोऽपि । स्वर्ज्यभावे प्रदातव्यो े जेषु कवीश्वरैः॥

Artificial swarzi-kshara.

In the absense of swarji-kshara, as manufactured in the way stated above, physicians sometimes use,

as its substitute, a kshara prepared from the ashes of duralabha or small duralabha *

(३) टंकनम्।

मृत्तिका टंकलाह्वया टंकनिमिश्रिता या हि। प्राप्यते सा कदाचिद्व वै शुष्कजलाशयोदरे॥ समाहृत्य मृदं तत् तु जलेन सह मेलयेत्। संटं ंततः थयेत् तीत्रविह्नना॥ वद् विशुष्यित सर्वं ततः रं हरेत्। सदाम † टंकनाह्वयं सितप्रभं मनोहरम्॥

(3) TANKANA (BORAX).

A kind of mud containing borax is found in the beds of dried lakes (in upper India and Tibet). This mud is called 'tankal' It is to be dissolved with water, filtered in the usual way, and dried up by heat, leaving crystals of borax deposited at the bottom of the pot

टं नामानि। टंकं च टंकनं चैव मालतीतीरसम्भवम्। रङ्गदं रसशोधनं पाचनकं रसाधिकम्॥

^{*} The small variety grows in abundance in barren tracts of land, and especially in the Punjab where it is called "lana" (contraction of "lavana", meaning saltish)

दाझा सह वर्त्तमानं सदाम। दामन् दाना इति भाषा।
 273

ंग्रुस्ति रसप्तं च सीभाग्यं वर्तुलं तथा। कनकत्तारनाम च मीलनं धातुव भम्॥ लाहरलेपणकं चैव टंकनचार एव च। द्रावणकं रङ्गचारः सुभगं र्णपाचकम्। लाहर्शिद्धकरं चैव टंगनं च तदुच्यते॥

टंकनस्य भेदः।

टंकनं द्विविधं ज्ञेयं पिगडाख्यं च सदामकम्। पिणडाळः मलिनश्वेतं सदाम हि सितप्रभम्॥

Varieties of tankana.

Tankana is of two kinds, viz pinda (lump) tankana, and crystal tankana. The former is not pure white, whereas the latter is pure white

टंकनस्य गुणाः।
कटृष्णरुचविष्ठक्त् कफन्नो वायुपित्तकृत्।
कासर्वासरजोरे धस्थावरविषजित् त ।
ध्रिप्तास्थं टंकनं ज्ञेयं हीनं तत् सितटंकनात्॥
कट्ष्प्रिक्ष्यं टंकनं ज्ञेयं हि रि भेदि प्रदम्।
ंश्लेष्मवातन्नं च मविषदोषहृत्॥
पिग्रास्थात् सितं ष्टं तरं हि तन्मतम्

पञ्चमोऽध्यायः।

Properties of tankana.

Lump tankana is pungent, warm, rough, increaser of digestive power, destroyer of kapha, and increaser of vayu and pittam. It is efficacious in cough, asthma, dismenorrhoea, and inorganic poison. It is inferior to crystal tankana

White or crystal tankana is pungent, warm, soft, acrid, white, laxative, strengthening, digestive, destroyer of kapha and vayu, and efficacious in waste, mucus, and poison

The white borax is purer than the lump borax

टंकनस्य शोधनम् । टं वहियोगेन स्फुटितं हि विशुध्यति ॥

Purification of tankana.

Tankana is purified, if it is made to burst into white ashes by the application of heat.

क्षाराणां द्वैविध्यम्।
चारास्तु द्विविधा ज्ञेया कठिनास्तरलास्त ।
किराः प्रति र्याश्च प्रयोज्या भेषजादिषु॥
तरलाः पानयो हि गदेषु बहुषु ।
काञ्जीसुराद्धिचीरतकोष्णवारिभिः सह।
ग्रथवा वारिणा साध कुलस्थसंभवेन हि॥
भस्मवारिपरि ुतचारजलस्य पाकतः॥

जायनं नग्लः खारो रक्ताच्छतीच्णपिच्छिलः। नग्लम्य पुनर्पाकात् चारोऽयं कठिनायते॥

Tree knuls of ksharas-liquid and solid

Share are of two kinds, viz solid and liquid.

It is here are meant for external application and

I was a maredients of medicines, whereas liquid

the are for drinking in several diseases with kanji,

where curd milk, butter milk, or decoction of kulattha

liquid kshara is obtained by heating distilled solution of ashes mixed with water up to the time when the solution grows red, clear, acrid, and sticky have a heating of this liquid kshara results in the solution of the solution into hard kshara

प्रतिसार्यक्षारस्य विषयाः।

कुष्ठ-किठिमदद्रु किलासम ल-भगन्दरार्वुददुष्ट-व्यानाड़ी-चर्मकीलतिलकालकन्यच्छ-व्यङ्गमशकबाह्य-विद्रिषिकृमिविषाश्चःसूपदिश्यते सप्तषु च खरोगेषू-पिजह्याधिजिह्वापकुशदन्तवैदर्भेषु रोहिणीषु चैवानु-शवप्रणिधानमुक्तम् । ॥

Discuses in which solid kshara is to be applied.

Hard k-hara may be applied in the following diseases—leprosy in general, kitima (keloid), dadru

• विस्तरायं सुश्रुतस्य सूत्रस्थाने एकाद्शोध्यायस्तथा उत्तरतन्त्रे विक्वारिक्रोबाको दृष्टच्यः। (ring-worm), kılasa (leucoderma), mandala (lepra), bhagandara (fistula in ano), arbuda (a kind of tumour), dusta-brana (unhealthy ulcers), nali-brana (sinus), charma-kıla (condyloma), tıla-kalaka (mobs), nyachha (chloasma), byanga (black spots on the face), mashaka (warts), bahya-bidradhi (external tumours), krimi (worms), bisha (poison), piles, upa-jihva (ranula), adhijihva (tumour on the tengue), upakusa (inflammation of the gum), danta-vaidarbha (inflammation of the gum from injury), and three sorts of rohini (diptheria)*

तरलक्षारस्य विषयाः।

पानीयस्तु गरगुल्मोदराग्निशृलाजीर्णारोचकानाह-शकराश्मर्यभ्यन्तर-विद्धि-क्रिमि-विषार्शः-रूपयुज्यते। ब्रहितं तु रक्तिपत्तज्विरितपित्तप्रकृति-।ह्यहुर्व्वल-मद्मूर्व्ञितिमिरपरीतेभ्य ऽन्येभ्यश्चैवंविधेभ्यः।

Use of liquid Kshara.

The liquid kshara is used in toxin, gulma, udara, indigestion, colic, loss of appetite, intestinal obstruction, diabetes, stone disease, internal tumour, worms, and piles

It is injurious in hemorrhage, fever, bilicusness, diseases of children, old men, and weak men,

^{*} Allopathic classification of diseases is so vague and general that it is impossible to find a corresponding allopathic name for every name of diseases mentioned in the Hindu science of medicine

giddiness, after-effects of drinking wine, loss of eye-sight, etc.

सर्वक्षारस्य निर्माणविधिः।

सर्वचारं चिकीर्षः शरदि गिरिसानुजं शुचिः प्रशस्तेऽहनि प्रशस्तदेशजातमनुपहतं मध्यमवयसं महान्र सितमोच्चकं पाटियष्यति। ल्प्यावपाट्य निर्वाते देशे निचितं कृत्वा सुधा-श्कराश्च प्रचिप्य तिलन ैरादीपयेदथोपशान्तेऽसौ तद्भस्म पृथग् यहीयाद् भस्मशर्कराश्च । ऋथानेनैव विधानेन कूटजपलाशाश्वकर्णपारिभद्रकविभीतकार-ग्वधतिलव कैस्नूह्यपामार्गपा ानक्त ल वृषकदली चित्रकपृतीकेन्द्रवृत्ता होताश्वमारकसप्तच्छदाग्निमन्थ-गुञ्जाश्चत श्च कोषातकीः दहेत्। ततः चारद्रोणमुदकद्रोणैः षड्भिरालेड्य मूत्रैर्वा यथोक्तरेकविंशतिवारान् ि व्य महति ाहे शनैद[ं]ट विघट्टयन् विपचेत्। स यदा भवत्यच्छो रक्तस्तीच्णः पिच्छिलश्च तमादाय महति परि व्येतरं विसृज्य च पुन ।वधिश्रयेत्। एव च चारोदकात् इ ध्यर्छ वापनयेत् 🕨 ततः कटश्कराभस्मश्कराचीरप्रकश्ख्याधीरप्रि-यसे पात्रे तस्मिन्ने व चारोदके निषिच्यः वर्गाः

पिघ्वा ते द्विद्रोगोऽष्टपलसंमितं शृङ्खनाभ्यादीनां प्र गां प्रतिवाप्य सततम त्तरचैनमवघट्टयन् विपचेत्। स यथा नातिसान्द्रो नातिद्रवश्च भवति तथा तेत। अथैनमागतपाकमवतार्यानुस्तक्ष- यसे कुम्भे संवृतमुखे निद्ध्यादेष मध्यमः। एष एवाप्रतीवापः पकः संव्यूहिमो मृदुः। प्रतीवापे यथालामं दन्ती द्रवन्ती चित्रकलाङ्गलकीपृतिक- । खतालपत्रीविड्मुवर्चिकाकनकचीरीहिङ्गवचाविषाः समाः श्रुच्याचूर्गाः श्रुक्ति गाः प्रतिवापः। स एव सप्रतीवापः पकः पाक्यस्तीच्णस्तेषां यथा- व्याधि ल पयोगः। चीगाबले तु चारोदकमावपेद बलकरगार्थम्।

एष सर्वचारः सुश्रुतोक्तविधानेन ग्रह्मिर्यार्थं नियोक्तव्यो न तु विषयान्तरे।

Process of preparing swarva-kshara.

A middle-aged black mokshaka tree growing in a valley of a mountain is to be cut into pieces, sometime in the two months following the rains, and kept in a heap in a place protected from drafts of air Some lime stone (or balls of lime-mud dried up, generally known by the name of "ghuting") is also to be kept inside the heap of wood, which is

to be burnt by fire made of sesamus plant. The ashes of the wood are then to be separated from the burnt lime-stone, as well as from the burnt soil upon which the act of burning takes place.

In the same way, ashes will have to be prepared from the following trees (or plants, as the case may be)—kutaja, palasha, asva karna (a kind of shala), paribhadra, bibhitaki, aragbadha, lodhra, arka, snuhi, apamarga, patali, bisha-karanja, basaka, kadali, chitraka, putika (rama-karpura), kutaja, asphota (bhadra-balli),* karabira, saptaparni, agnimantha, gunja, and four kinds of ghosha (including deva-dali).

Two thirds of a drona of the ghanta-patalic kshara and one third of a drona of the kshara prepared from kutaja and the other trees, referred to above, are to be dissolved with water or cow's urine, six dronas in weight, and filtered for 21 times. The solution is next to be subjected to heat till it becomes clear, red, acrid, and sticky, when it will have to be filtered again, rejecting the dregs. The solution, thus filtered, may be used as a liquid kshara, if necessary

Take one kuraba or $1\frac{1}{2}$ kuraba of this solution, and rub it with 8 palas of all these combined —burnt lime, burnt sand obtained from the spot where the wood was burnt, oyster shells burnt, and nabhishankha (a kind of conch shell)—each equal in quantity, and previously made red-hot by heating in an iron

^{*} Bengali, "hapharmali" Asphota may also mean red arka

cauldron. The paste, thus prepared, is to be boiled with two dronas of the liquid kshara, referred to above, turning it, all the while, by an iron ladle in such a way as to make the product neither solid nor liquid. The kshara, thus prepared, is of moderate strength. It would be mild, if prepared in the above way without the mixture of the paste, referred to above. It can be rendered the strongest, if prepared with the addition of four tolas in weight of the fine powder of each of the following, mixed in course of the heating—danti, dravanti, chitraka, langalaki, leaves of nata-karanja, tala-muli, bira-salt, swarji-kshara, swarna-kshiri, hingu, bacha, and ati-visha

These ksharas are to be kept in jars with their mouths covered *

क्षार

स्वर्जिका यावशुकश्च चारद्वयमुदाहृतम्।

क्षाराष्ट्रकम्।

पलाशवि शिखरिचिश्चाकेतिलनालजाः। यवजः स्वजि चेति चाराष्ट्रकमुदाहृतम्॥ चारा एतेऽग्निना तुल्या गुल्मशूलहरा भृशम्॥

The two ksharas

Swarjika and java kshara combined are called the two ksharas

^{*} For details see, Chapter XI, Sutra-sthanam, and XXXXII, uttaratantra, Sushruta

The eight ksharas

The following eight are called the eight ksharas —ksharas prepared from (1) palasha, (2) snuhi, (3) apamarga, (4) chincha, (5) arka, (6) tila plant, (7) ears of barley and (8) swarji kshara.

These are like fire and are curer of gulma and colic

षष्ठोऽध्यायः ।

अथ लवगानि।

लवणं पट्र लोतं च लोनं शिवं च कथ्यते। लवणानि षड़ च्यन्ते सामुद्रं सैन्धवं विड़म्। सौवर्चलं रोमकं च चुलिका णं तथा॥

CHAPTER VI.

Lavanas (salts).

There are six different kinds of salts, viz (1) samudra (marine), (2) saindhava (rock-salt found in the Punjab and sind), (3) bira (an artificial salt), (4) sauvarchala (salt-petre), (5) romaka (salt obtained from the lake, sambar, in Rajputana), and (6) chulika (nava-sara or sal ammoniac).

सामान्येन छवणानां गुणाः।

लवगाः शोधनो रुच्यः पाचनः कफपित्तदः।

पं वातहरः कायशैथिल्यमृदुताकरः ॥

बल्र आस्यजलदः कपोलगलदाहकृत्॥

Properties of salts in general

Salt is purifier, increaser of relish in food, digestive, increaser of kapha and pitta, destroyer of manliness and of vayu. It slackens and softens the body, impairs strength, induces shedding of water through the mouth, and causes inflammation in the cheeck and the neck

अतियुक्तस्य छवणस्य गुणाः।

सोऽतियुक्तोऽचिपाकास्त्रपित्तकोठचतादिकृत्। बलीपलितखालित्यकुष्टविसपतृट्प्रदः॥

Properties of salt taken in excess.

Salt, taken in excess, causes opthalmia, ractapitta, intestinal ulcer, falling off of teeth, greyness of hair, baldness, leprosy, erysipelaus, and thirst

(१) सामुद्रलवणम्।

सामुद्रमिच्चं चैव विशरं च समुद्रजम् । सामुद्रं दीपनं तीच्णं लघु रुच्यं च सारकम् । चारग्रणयुतं कफिपत्तकृद् वायुनाशनम् ॥

(1) SAMUDRA LAVANA (SEA SALT)

It is digestive, acrid, light, increaser of appetite, laxative, having some of the properties of alkalis, increaser of kapha and pitta, and pacifier of vayu.

(२) सैन्धवम्।

सैन्धवं शीतिशवं क्ष च मिण्मन्थं च सिन्धुजम्। सिन्धुदेशे तथा पश्चनदाख्ये प्राप्यते खनौ। तदेव दीपनं शीतं लवणमधुरं लघु॥ मृद्वग्निवर्धनं रुच्यं चचुष्यं शुक्रदं तथा। त्रिदोषन्नं तथा सूचमं विधन्धवणनाशनम्॥

(2) SAINDHAVA (ROCK SALT)

Saindhava is a rock-salt found in the sind and the Punjab It is digestive, producing a cooling effect in the system, saltish-sweet in taste, light, soft, increaser of power of digestion and liking for food, beneficial to eye-sight, increaser of semen, pacifier of the three doshas, capable of entering everywhere into the system, and destroyer of constipation and boils

(३) विड़म्।

विड़ं च विड़गन्धं च काल एकं तथा।
खराडं द्राविड़कं चैव विड़ एमासुरम्॥
खराडलवराकं धूर्तं कृतकं चारमेव च।
कृत्रिमकं सुपाक्यं च वैद्यकलवर्गं तथा॥

शीतशिवमिति शीतं शीतवीर्यं शिवं छवणमिति । सर्वेषां
 छवणानां मध्ये केवछं सैन्धवं शीतवीर्य्यम् ।

(4) SAUVARCHALA (SALT-PETRE).

It is the same as ushara kshara or salt-petre. It is both an alkalı and a salt For the preparation of salt-petre, see page 268

क्तिमसौवर्च निर्माणविधिः।
स्वर्जिचारश्च तत् तुल्यं सैन्धवं मेलयेद् द्वयम्।
सूदमचूर्णीकृतं सर्वं निदध्याद् मृद्घटे ः॥
तदा विनिःचिपेत् तत्र चूर्णाधिकं जलं शुभम्।
पचेत् सर्वं ततो धीरो यत्नतो हिना॥
यावच् चूर्णं द्रृतिं याति ज पि विशोष्यते।
शोषितेऽपि नीरे सम्यक् किश्चित्कालं विपाच्यते।
स्वतः शीतं समुद्धार्यं सौवर्चलमतः परम्॥
पटुसौवर्चलं तद्धि चारसौवर्चलं न तु।

Preparation of artificial sauvarchala

An equal quantity of powdered swarji (natron) and saindhava (rock-salt) are to be mixed together and dissolved with water in an earthen vessel which is to be heated strongly till the solution melts well and then dried up. The heat is to be continued for some time after the drying up of the product.

The product may be used as sauvarchala salt, and not as sauvarchala kshara

(NB.—The salt, thus prepared, may be used in lieu of salt-petre, where the emphasis is laid on the word 'salt', but where there is a stress on the word "kshara", only salt-petre, and not its substitute, should be used)

(५) रोमकम्।*

अस्य नामानि।

रोमकं रोमलोगं च साम्बरं सम्बरोद्भवम् । शाकम्भरीहृदोद्भवं गड़ाख्यं लवगं हि तत्॥

अस्योत्पत्तिखलम् ।

जयपुराभिधे राज्ये रोमोऽस्ति लोतनीरथुक्। ना शाकम्भरी सोऽयं साम्प्रतं सम्बराभिधः॥ लवणाक्तं जलं तस्य सागरनीरसंनिभम्। तज्जलाज् जायते लोतं † रोमकाख्यं तदेव हि॥ रोमावती नदी तस्माद रोमात् पुरा हिता। लवणं तज्जलोत्थं च संज्ञितं रोमकं पुरा॥ श्रासीत् पुरा पुरी तत्र रोमाख्या हि यशस्वती। साम्प्रतं वर्त्तते तत्र जयपुराभिधा पुरी। सम्बरादम्बराख्यां हि लेभे तत्र पुरान्तरम्॥

रोमः गर्तं ज यद्द्यर्थः तस्मात् जायते इति रोमकम् ।

[🕆] होतमिति हवणम्।

(5) ROMAKA (SAMBAR-SALT)

In the province of Jayapura (in Rajputana), there is a salt-water lake, named Shakambhara, now called Sambar. Its water is as saline as sea-water The salt, produced from the water of this lake, is called "romaka" In ancient times, a river named "Romavati" (now extinct) flowed from this lake The salt which was produced from the water of this river was also called 'romaka' salt. In the vicinity of this lake, there was, in ancient times, a famous town, called 'Roma'. It was perhaps located somewhere near the modern town of Jaypore (built by king Jaysinha). There is another town in the neighbourhood, named Ambar, which is a corrupted form of Sambar (the modern name of the lake)

अस्य गुणाः।

रोमकं कटुतिक्तं च तीच्योष्यां लावगां लघु। दीपकं भेदकं चैव पित्तदाहच्चयप्रदम्। अभिष्यन्दि तथा सूचममशींनुद्द वायुनाशनम्॥

Its properties

Romaka or sambara salt is bitter, pungent, and saline. It is acrid, warm, light, digestive, and laxative. It gives rise to pittam, inflammation, and waste. It helps the emission of phlegm (through nostrils and eyes). It is capable of passing even through the finest and minutest passages of the system, and is a pacifier of vayu

(६) चुलिकालवणम्।* पावि ।। सारश्च चुलि लवगं त । चारोऽयं लवगं चोपरसश्च कथ्यते बुधैः॥

(6) CHULIKA SALT.

It is the same as nava-sara (or sal-ammoniac) †

[#] द्विती े २१४ पृष्ठं तथा तृतीयखण्डे २६० पृष्ठं द्रष्टव्यम् ।

[†] See page 215, Vol II, and page 262 Vol III

सप्तमोऽध्यायः ।

अथ विषाणि।

विषं तु गरतः च इ स्य भेदानुदाहरे। वरं जंगमं चैव गरं च त्रिविधं विषम्॥ दशाधिष्ठानमाद्यं तु द्वितीयं षोड़शाश्रयम्। गरस्तु कृत्रिमं विषं विरुद्धभोजनादिजम्॥

CHAPTER VII

Poisons.

Poisons are of three kinds, viz inorganic, organic, and artificial The first is of ten different kinds, and the second of sixteen The third is toxin arising mainly out of the eating together of different kinds of food-stuff which are not compatible with one another (e.g. milk and fish or meat, milk and sour things, etc.).

अर्थ स्थावरविषम्।

मूलं पत्रं ं पुष्पं त्वक् चीरं सार एव च। निर्यासो वश्वैव कन्दश्च स्थावरा ः॥ कन्दाख्यं तेषु हि श्रेष्ठमष्टादशिवधं हि तत्। सक्तुकं मुस्तकं शृङ्गी वालुकं सर्षपाह्यम्॥ वत्सनाभं च कूर्मश्च श्वेतशृङ्गी तथाष्टमम्। इत्यष्टौ योजयेद योगे लकूटादि वर्जयेत्॥ लकूटं मेषशृङ्गी हलाहलं च दार्दुरम्। कर्कटं मर्कटं यिश्व हारिद्रं रक्तशृङ्गकम्। केशरं दशमं चेति वर्जनीयं भिषग्वरैः॥

INORGANIC POISON.

Inorganic poisons are of ten different forms, viz (1) roots, (2) leaves, (3) fruits, (4) flowers, (5) barks, (6) milk of plants or tree, (7) wood (8) exudations, (9) metals, and (10) tubers

Of these, poisons in the form of tubers are the best Such poisons are of eighteen different kinds, viz (1) saktuka, (2) mustaka, (3) shringi, (4) baluka, (5) sarshapa, (6) batsa-nabha, (7) kurma, (8) sweta-shringi, (9) kalakuta, (10) mesha-shringi, (11) halahala, (12) dardura, (13) karkata, (14) markata, (1) granthi, (16) haridra, (17) racta-shringa, and (18) keshara

Of these eighteen, the first eight are to be used according to directions, whereas the last ten (viz. from kalakuta to keshara) are to be avoided altogether.

कन्दविषाणां परिचयः।

(१) सक्तुकः।

यद्यन्थिः सक्तुकेनेव पूर्णमध्यः स सक्तृकः।
पुराहरीकं स एव हि मध्यश्वेतं च दृश्यते॥
चित्रमुत्पलकन्दाभं सुपिष्टं शक्तुवद् भवेत्।
सक्तुकं तद् विजानीयाद दीर्घवेगं महोल्वराम्॥

Descriptions of tuber poisons.

(1) Saktuka.

Saktuka or pundarika is that kind of poisonous tuber, the interior of which appears to be made of saktu (dried and powdered barley), and is of white colour. The tuber itself is as attractive as that of a lily. It gives the appearance of saktu (dried and powdered barley) when pestled well. The poison acts very swiftly and is very strong.

(२) मुस्तकम् । हस्ववेगं च रोगन्नं मुस्तकं मुस्तकाकृति ।

(2) Mustaka.

Mustaka poison is slow in action. It cures diseases and has the appearance of mustaka (cyperus rotandas).

^{*} चित्रमिति मनोहरम्।

(३) श्रङ्गी।

यस्मिन् गोश्रङ्गके बद्धे दुग्धं भवति लोहितम्। तं श्रङ्गीति विजानीयाद् वर्णेन ऋष्णपिङ्गलम्॥

(3) Shringi

This poisonous tuber, if tied up with the horns of a cow, makes it yield milk of blood-red colour. This tuber is of a blackish tawny colour

(४) वालुकम् (सैकतम्)। वालुकं वालुकोपमं ज्वरादिसर्वरोगहृत्। सिकताभिरिवापूर्णो यन्थिरस्य बुधैर्मतः॥

(4) Baluka (saikata).

Baluka tuber appears to have its inner part filled with sand, as it were. It cures fever and other diseases

(५) 'म्।

पोतवर्णं ज्वरघ्नं च सर्षपं विषमुच्यते । कन्दरोम्गि विषं तिद्धं सर्षपाभकगाचितम् । स्थूलसूदमैः कगौर्युक्तं श्वेतपीतैर्विलोभकम् ॥

(5) Sarshapa.

Sarshapa tuber is yellow in colour, and is a curer of fever. It has got hair-like shoots which only are poisonous. The holes or pores where these hair-like shoots grow, are full of particles having

the appearance of mustard seeds Some of these particles are big, and the rest are small Some of them are white, whereas the others are yellow. The tuber itself is, therefore, very attractive to look at

(६) वत्सनाभः।

(क)

वत्सनाभिनिभः कन्दो न दीर्घः पञ्चकाङ्गुलात् । स्थूलतरो न गोस्तनाद द्विविधो वत्सनाभकः ॥ त्राशुकारी लघु स्त्यागी शुक्कः कृष्णोऽन्यथा भवेत् । प्रयोज्यो रोगहरणे वत्सनाभिद्यं मतम् ॥

निर्गुराडीपत्रवर्णायुग् वत्सनाभ्याकृतिस्तथा । यतुपार्श्वे न तरोर्चु द्धि वतुसनाभः स पाराडुरः ॥

(6) Batsa-nabha (aconite).

The tuber, named batsa-nabha, has the appearance of a cow's udder. It is not more than five angulis in length; neither is it thicker than cow's udder. It is of two varieties, viz white and black. The first variety is swift in its action, light, and laxative. The black variety possesses opposite properties. Both the varieties are used in medicines as well as in rasayana.

(b)

Batsa-nabha (or aconite) has the colour of nirgundi leaves It resembles the navel of a calf.

स्वागीति मलादेरेचकः।

Trees and plants growing around it do not thrive at all. It is pale-white in colour.

वत्सनाभस्य गुणाः।

नेपालशृङ्गो नैपाली चामृतं विषनामकम्। वत्सनाभं कटु स्वेद्यं तिक्तं मृत्रलमेव च॥ आग्नेयं वेदनान्नं च सादनं शूलनाशनम्। अभिघातरुजं हन्ति वीसर्पं कफजान् गदान्॥ वातजान् निखिलांश्चापि सन्निपातोद्भवं ज्वरम्। आमवातं महाघोरं हृद्रोगमपि दारुणम्॥

Properties of Aconite

Aconite is bitter and pungent. It causes perspiration and discharge of urine. It is digestive, remover of pain, causing depression, and curer of colic and pain due to percussion. It is efficacious in erysipelas, diseases due to an excess of kapha and vayu, fever due to an excess of the three doshas, rheumatism, and heart disease.

(७) क्रुम्मैः।

कूर्मवद् दृश्यते यत्तु तत् कूर्म इति भाषितम्।

(7) Kurma.

The tuber poison, which resembles a tortoise in appearance, is called kurma

(८) श्चेतश्रं ङ्गम्।

श्वेतशृंगं विजानीयात् प्रायशः श्वेतशृङ्गवत्। शृङ्गिकमिव तद् दुग्धं रञ्जयित गवां खलु। फणाकारं कथित्रत् तदतो दर्विकमुच्यते॥

(8) Sweta shringa

Sweta-shringa or darvika is like a white horn or snake's hood in appearance Like shringi, it makes a cow yield milk of blood-red colour, if it is tied up with its horns

(६) कालकूटः।

स्रित विषतहः कश्चिद्द्वत्थसंनिभः खलु । निर्यासः कालकूटोऽस्य मुनिभिः परिकीर्त्तितः ॥ काकचञ्चुनिभो वर्णाकृतिभ्यां ज्ञायते हि सः । वृत्तः कन्दो भवेदस्य जम्बीरसन्निभासितः ॥ कालकूटं विजानीयाद् घातमात्रं मृतिप्रदम् । स हि चेत्रे शृङ्गवेरे कंकने मलये भवेत् ॥

(9) Kala-kuta

There is a poisonous tree of the appearance of an aswattha Exudation of this tree is called kala-kuta This resembles a crow's eye in appearance and in colour.

The tuber of this tree is globular and black, like a lime fruit. This tuber is so strongly poisonous that even its odour is sufficient to take

away the life of a human being This tree grows in the provinces, named "shringabera," "Konkan" and the "malaya" hills in the Deccan

(१०) मेषश्रङ्गी।*

विकशृङ्गतुल्यो यो मेषशृङ्गी स कथ्यते। शृङ्गिकमिव तद् दुग्धं रञ्जयति गवां खलु॥

(10) Mesha-shringi

It resembles a ram's horn in appearance It also makes a cow yield milk of blood-red colour, if it is tied up with its horns

(११) हलाहल: ।

गोस्तनाभक्तो गुच्छस्तालपत्रच्छदस्तथा। तेजसा यस्य दह्यन्ते समीपस्था द्रुमाद्यः॥ असौ हालाहलस्तरः किष्किन्ध्यायां हिमालये। दिच्गणाब्धितटे देशे कंकने च प्रजायते॥ भंग्रराकन्दवत् कन्दः तरोस्तस्यापि कथ्यते। अन्तर्नीलो बहिः श्वेतः कन्दोऽसौ हि हलाहलम्॥

(11) Halahala

The tree named 'halahala' has fruits like cow's udder. The bunch of its fruits has the appearance of an umbrella made of palm leaves. No tree, plant,

मेषश्रङ्गाख्यं विषदोषहोनं द्रव्यान्तरं वर्त्तते ।

etc. grows in the vicinity of this poison tree. It grows generally in kiskindhya, the Himalayas, the south-sea coast, and kankana Its tuber has the appearance of the tuber of atibisha. The halahala tuber is blue inside and white in the outside.

(१२) दार्द्रस्। दद्वीराख्ये गिरौ यत्तु जायते मलयान्तिके। अ दाद्वीरं कथ्यते तद्धि ब्रह्मपुत्रश्च कर्दमम्।।

वर्गेन किपलं तच्च कर्दमसंनिभं तथा। ददूरे मलये चापि जायते तद्विषोल्वराम्॥

(12) Dardura

It grows in the hill named 'Dardura' situated near the Malaya mountain It is also called brahma-putra and kardama. It is tawny in colour and is like mud in appearance. It is strongly poisonous and grows in the Dardura and the Malaya hills

(१३) कर्कटं कर्कोंटं वा।

कर्कोटं किपवर्णं स्यात् कर्कोटकसमप्रभम्।† तदेव विषमं विषं रेखाभ्यन्तरतो मृदु॥

 [#] मलयाचलसिवा द्दूरनामा गिरिरस्ति। तथा हि—
 स्तनाविव दिशस्तस्याः शैली मलयदर्दू री [रघुवंशम् ४।५१]।

क्षे कर्नोटक इत्यस्य स्थले कर्नटक इत्यस्य वितपाठस्य साधुतरतापि सुधीभिर्विचार्या।

(१६) हारिद्र: ।

हरिद्रातुल्यमूलो यो हारिद्रः स उदाहृतः । विराटे जायते तस्माद् वैराटकं च कथ्यते ॥ मूलाप्रयोः सुवृत्तः स्यादायतः पीतगर्भकः । कञ्चका : स्निग्धपर्वा हारिद्रः शक्तुकन्दकः ॥

(16) Haridra or vairata.

The tuber of this plant is like that of turmeric. It is also called "vairata", simply because it grows mainly in the province of Virata Both the extremities of this tuber are well-rounded. It is broad-shaped, and is yellow inside. It has a fine skin or covering Each of the parts of this tuber between one knot and the nearest is smooth or appearing to be smeared with oil. This tuber (like saktuka) resembles, when pestled and made into a paste, shaktu or fried and powdered barley

(१७) रक्तश्रङ्गी।

गोश्रङ्गाय ऽथ विचित्तो नासयास्तक् प्रवर्तते । लघुर्गोस्तनवत्कन्दो रक्तश्रङ्गीति तद्विषम् ॥

(17) Racta-shringi.

This tuber, if thrown upon the horns of a cow, causes the shed of blood through its nostrils. This tuber is light in weight and has the appearance of cow's udder.

(१८) प्रदीपन: ।

शुष्कार्द्र इव किंजल्कमध्ये तत् केशरं विदुः। वर्णतो लोहितः स स्याद् दीप्तिमान् दहनप्रभः॥ महादाहकरः पूर्वैः कथितः स प्रदीपनः। महाविषाह्वयश्चासौ केशरश्चापि कथ्यते॥

(18) Keshara, Pradipana or Mahabisha

It has the appearance of a dried ginger tuber, kept in the midst of filaments or blossoms of a flower. It is red and resembles fire in colour. It causes a terrible inflammation on that part of the body which comes in contact with this poison

विषाणां व्यवहारः।

धातुवादे विषार्थे च चेमकार्ये क्ष कचित् कचित्। युज्यते कालकूटादि न भेषज्ये रसायने॥ सक्तुकादिं प्रयुञ्जीत सर्वरोगे रसायने। विप्रादिजातिभेदेन यथाविधि सुशोधितम्॥

रसिवद्या त्रिधा प्रोक्ता धातुवादश्चिकित्सितम् । दुर्लभा क्षेमिवद्या च सर्वविद्यासु ता वराः ॥ चिकित्सा द्वितयी द्वैया व्याधीनां जरसस्तथा । जराव्याधिविनाशिनी चिकित्सा हि रसायनम् ॥

श्लेमकार्यमिति रसादिना नागवङ्गादीनां खर्णे वा रौप्ये
 रुपान्तरीकरणम् । एतदेव वेधनकार्य्यमिप कथ्यते । तथाहि राम-राजीयग्रन्थस्यानुक्रमणिकायां—

Use of tuber-poisons

The ten kinds of poisons beginning with kala-kuta may be used sometimes for the purposes of metallurgy, preparation of poison, and kshema operations or alchemy *, but they should never be used in medicines of any kind

Only the eight tuber-poisons beginning with saktuka should be used, well-purified and as prescribed in the medical treatises. In using these eight in medicines, care should be taken to see that their use is decided upon with reference to the caste or class of poisons to which a particular member of this group belongs (see below)

विषाष्ट्रकस्य जातिभेदः।

(१)

श्वेतो रक्तश्च पीतश्च कृष्णश्चेति चतुर्विधः। ब्रा णः चत्रियो वैश्यः क्रमाज् ज्ञेयश्च शूद्रकः॥ श्वेता वा यदि वा पिङ्गा मधुरा वोषराऽपि वा। लोमशा ब्रह्मजातिः स्यात् चत्रजातिस्तु लोहिता॥ पीता वा मधुरा किश्चित् वैश्यजातिस्तु धूसरा। कृष्णा शूद्रजातिर्ज्ञेया विषाणां च भिषग्वरैः॥

^{*} The science of kshema or khema deals with transformation of base metals into gold. The term khema has been contracted into the Persian "kimia" or al chemia. Vide page 100 of the author's work, 'Indian civilization and its Antiquity"

(२)

चीरं संपूर्य भागडेऽपि विषं दत्त्वा विलच्चेत्।
यद्वर्णं जायते चीरं तेन जातिं विनिर्दिशेत्॥
शुक्कं रक्तं तथा पीतं कृष्णं चेति चतुर्विधम्।
वर्णानि ब्रा णादीनां ज्ञायन्ते भिषजां वरेः॥
चिप्तं दुग्धे विषं वैद्यो जानीयात् क्रमशो यदि।
श्वेतं रक्तं तथा पीतं कृष्णं चोष्णं तदेव च॥
ब्राह्मणः चित्रयो वैश्यः शुद्धश्च हि यथाक्रमम्॥

Caste or classification of the eight poisons referred to above

(1)

Brahmana, kshatriya, vaisya, and shudra are generally of the following colours, respectively — (1) white, (2) red, (3) yellow, and (4) black

A poison is of the Brahmana or wise caste, if it is white or tawny, is sweet or saltish in taste, and has got hair-like shoots over its body. The kshatriya (or warrior class) of the poisons is red in colour. The vaisya (merchant class) is yellow or grey and somewhat sweet in taste. The shudra (or the agricultural and serving class) is black in colour.

(2)

The caste of a poison may also be ascertained by throwing it into milk. If the milk into which the

poison has been immersed assumes a white colour, the poison is of the Brahmana caste, if the milk turns red in colour, the poison is of the kshatriya caste, if the milk is of yellow colour, the poison is of the vaisya caste, and if the milk is of black colour, the poison is of the shudra caste. The milk also grows warm at the touch of the poison

ब्राह्मणादिविषाणां गुणाः।

रसायनवरो विष्रः चत्रियो रसकर्मकृत् । वैश्यः कुष्टविनाशनः शूद्रस्तु मृतिदायकः ॥ ब्रा गो दीयते रोगे चत्रियो विषभच्गो । वैश्यस्तु चुद्ररोगेषु सर्पद्याय शूद्रकः ॥

Properties of poisons, according to caste.

The Brahmana (white-coloured) poison is a curer and preventer of diseases and senile decay. The kshatriya (red-coloured) is used in mercurial operations. The vaisya (yellow-coloured) is a curer of leprosy, and the shudra (black-coloured) is giver of death.

The Brahmana variety of poisons is to be used in diseases; the kshatriya variety to be given to a patient who has swallowed some poison; the vaisya variety is to be used in diseases of minor importance, and the shudra variety to be given to a man who has been bitten by a poisonous snake

सामान्येन विषाणामवगुणा ।

सर्वाणि शलैज्यान्येतानि दशभिगृंगैः। रुचमुष्यां तथा तोच्यां सूचममाशु व्यवायि च । ॥ विकाशि + विसरं चैव लघ्वपाकि च तत् स्मृतम्॥ तद्रौच्यात् कोपयेद् वायुमौष्णयात् पित्तं सशोणितम्। मानसं मोहयेत् तैच्गयादङ्गबन्धांश्छिनत्यपि॥ शरीरावयवान् सौच्म्यात् प्रविशेत् विकरोति च। अर्थाशुत्वादाशु तद्धन्ति व्यवायात् प्रकृतिं 🛨 भजेत् ॥ चरयेच विकाशित्वाद दोषान् धातुमलानि । वैसर्थाद्तिरिच्येत दुश्चिकत्स्यं च लाघवात्॥ दुर्जरं चाविपाकित्वात् तस त् ेशयते चिरम्। स्थावरं जंगमं यच कृत्रिमं चापि यद्धितम्। सद्यो व्यापादयेत् तत्तु ज्ञेयं दश्युणान्वितम् ॥

भृवं व्याप्याखिलं कायं ततः पाकं च गच्छिति । व्यवायि
 तद् यथा भङ्गा फेनञ्चाहिसमुद्भवम् ॥ फेनमत्र निर्यासः अहीति
 अहिनाम गुल्म न तु सर्पः ।

[ा] विकाशीति ओजःशोषणपूर्वकसन्धिवन्धनग्रैथिल्यकारकम्। विसरमिति भेदकम्।

[🦚] प्रकृतिमिति आत्मव्यतीतनिष्विछदेहम् । भजेदिति व्याप्नुयात् ।

Evil properties of the poisons in general.

The following are the demerits of poisons in general —(1) capacity for drying up the oily or fatty substance in the system, (2 causing heat, (3) violence, (4) capacity to enter into the minutest part of the body, (5) quickness of action, (6) capacity to spread through the whole of the system without being digested, (7) capacity to dry up the vital fluid which pervades the whole system, and to slacken the joints of the different limbs, (8) capacity to split up (9) lightness, and (10) incapacity for being digested.

A poison has the following functions on account of its possessing the ten demerits mentioned above. respectively :-- It (1) increases vayu, (2) increases pittam and vitiates blood, (3) deprives the mind of consciousness and slackens the cohesion of the different limbs to one anothor, (4) spreads even through the minutest parts of the body and deranges them. (5) can take away life very quickly. (6) attacks the whole of the physical body without being digested at all, (7) destroys the three doshas (vayu, pittam, and kapha), the seven dhatus (chyle, blood, semen, flesh, bone, marrow, and fat), and the dirts (urine, stool, etc.), (8) causes much purgation, (9) is too light to be easily caught hold of and neutralized by medicines, and (10) incapacity for being digested which is the cause of the duration of the trouble due to it.

Any poison, whether organic, inorganic, or artificial, if endowed with all these demerits, has the power to kill life in a short time.

विशेषेण स्थावरविषजनितविकाराः।

स्थावरं तु ज्वरं हिकां दन्तहर्षं गलग्रहम्। फेनछर्यं रुचिश्वासं मूर्च्छां च कुरुते विषम्॥

Special Troubles due to inorganic poison,

These are —fever, hiccough, tickling and irritating sensation in the teeth, swelling of the neck and throat, coming out of froth from the mouth, nausea, aversion to food, difficult respiration, and loss of possciousness

सहसा विषशीलने विकाराः।

वेगा हाष्ट प्रजायन्ते सहसा विषशीलिनः । प्रथमे त्वग्विकारः स्याद् द्वितीये वेपथुर्भवेत् ॥ दाहो वेगे तृतीये स्याच् चतुर्थे देहवैकृतम् । फेनोद्गतिः पञ्चमे स्यात् स्कन्धयोर्भिङ्गता ः॥ वेगे च सप्तमे जा मष्टमे मरणं ध्रुवम् । एवं ज्ञात्वा भिषग्वरः प्रतीकारं समाचरेत्॥

Troubles due to a sudden entrance of poison into the system

Eight different stages follow the entrance of poison into a human system. In the first stage, there is a discoloration of the skin, in the second, there is shivering, in the third, inflammation, in the fourth, disfigurement of the whole body, in the fifth,

coming out of froth from the megath, in the seventh, such breaking of the shoulders; in old the eighth ... if movement of the limbs, an - 12. 1- the stage of death Hiving regard to all these, a phy recein should

·mat the patient

विषजविकारस्य चिकित्सा।

(2)

अतिमात्रं विषे भुक्ते वमनं रयेत् तदा 🍇 ज्जादुग्धं प्रदद्याच यावद् वान्तिने जायते ॥ तदुदुग्धं दीयते पुनः पुनरेव वमेः परम्। न देयं तत् पुनर्वारं यदा वान्तिर्गमिष्यति॥ दुग्धं यदा देहे स्थिरीभवति देहिनः। विषवेगं तदोत्तीर्गं जानीयात् शलो भिषक् ॥

> Treatment of poison (1)

On the entrance of poison into a human system, the patient is to be made to vomit. He is to drink goat's milk so long as he does not commence vomitting. Then he is to continue drinking the same milk after each act of vomiting, till the vomiting altogether. The strength of the poison is to be considered nullified as soon as the drinking of goat's milk is followed no more by vomiting. In other words, no more milk is to be drunk by the patient when it is found that the last draft of milk is not vomited out.

श्रातमात्रे विषे पीते प्रतिकार्यं हि सत्वरम् । पित्तान्तं वमनं कार्यमजादुग्धस्य पानतः ॥ श्रथवा राजिकाचूर्णलवणवारिशीलनात् । मदनस्य फलेन वा मीनधौताम्बुनाऽपि वा ॥ रेचनं हि तदा कार्यं कफान्तं कविशेखरैः । गोघृतं च पिबेत् ततो विषव्नं जीवनप्रदम् ॥

Poison, taken in an excessive quantity, should be remedied at once. The patient is first of all to be made to vomit till he vomits pittam (or bile). The vomiting is to be effected by means of drinking goat's milk; or water mixed with powdered raji (rye seeds) and saindhava salt; or madana fruit pestled with water; or water with which fish has been washed off. After vomiting, the patient is to be purged till kapha or mucus comes out without stool. He is next to drink some cow's ghrita (clarified butter), which is a destroyer of poison and giver of vitality.

(३) विषं हन्यादु रसः पीतो रजनीमेघनादयोः । सर्पाची टंकनं वापि घृतेन विषहृत् परम् ॥

पुत्रंजीवफलान्तःस्था मज्जा वा निम्बुवारिणा । पीता च लेपिता गात्रे नेत्रयोश्चांजनीकृता ॥

(3)

The following may be used for the purpose of destroying poison — (a) drinking of the juices of turmeric tuber and meghanada (tanduliya), or (b) gandha-nakuli or tankana, mixed with clarified butter, or (c) kernel of the fruit of putranjiva, drunk with lemon juice, and the same pestled with water and used as a plaster upon the skin and as a collyrium for the eyes.

(8)

जातीनीलीश्वरीसिन्धुकाकमाच्यद्रिकर्णि ।श्च त्रिफला करवीरं च कुष्टं मधुकजीरकम् ॥ चीरवृत्तत्वगेलेति विषन्नोऽयं गणः स्मृतः । विषन्नं गोघृतं चैव माङ्गल्यं जीवनं स्मृतम्॥

(4)

The following group of vegetable drugs is a destroyer of poison —jati (jessamine), nili indigo plant), iswari mula, saindhava(rock-salt), kaka machi, aparajita, triphala, karabira, kushtha, jasthi-madhu, jira, barks of kshira tiees, (such as, aswattha, vata, etc.) and ela (cardamoms).

[#] ईश्वरीति ईश्वरीमूळं ईशेर मूळ इति भाषा।

Cow's butter (clarified) is also a destroyer of poison

(4)

श्रतिमात्रे विषे पीते पेयं घृतमनन्तरम् । सभागींद्धिभूमोत्थसारिवातगडूलीयकम् । श्रागारभूममञ्जिष्टायष्ट्याख्यैश्च समन्वितम् ॥

(5)

If poison is taken in excess, cow's ghrita (clarified butter), mixed with bhargi, dadhi (curd), vajrakshara (kshara prepared from snuhi plant), anantamula, tanduliya, soot (smoke condensed), manjista, and jastimadhu, should be swallowed by the patient

विषात्तीं मधुसर्पिभ्यां चूर्णितामर्जुनत्वचम् । टंकनं मेघनादेन मधुना सह वा पिवेत् ॥

(6)

One who has taken poison in excess should take powdered bark of arjuna, mixed with honey and clarified butter, or he should take purified tankana mixed with honey and the juice of tanduliya roots.

प्रशस्तविषस्य गुणाः।

युक्तियुक्तं विषं ज्ञेयं प्राणदायि रसायनम् । योगवाहि त्रिदोषव्नं बृंहगं वीर्यवर्ष्ट्नम् ॥

ये दुर्गुणा विषेऽशुद्धे ते स्युर्हीना विशोधनात्। तस्माद् विषं प्रयोगेषु शोधयित्वा प्रयोजयेत्॥

Merits of good poisons

Poison, if taken in the prescribed way, is an increaser of vitality and curer and preventer of diseases and senility. It is an increaser of the properties, good or evil, of a thing which is taken with it. It pacifies the three doshas, is nutritious, and increases semen The demerits of salutary poisons are removed by their purification (in the way to be described later) Poisons are, therefore, to be duly purified, before they are used as medicine

कन्द्ि संग्रहविधिः।

उद्धरेत् फलपाकान्ते विषं नवं घनं ग्ररु। अव्याहतं विषहरैर्वातादिभिरशोषितम्। रक्तसर्पपतैलेन लिप्तवासिस धारयेत्॥

How tuber-poison is to be procured

Tuber poisons (of course, only those of them which are commendable) are to be taken out only when their fruits have ripened, when they are still fresh and heavy; and have not yet been deteriorated by such antipoisonous agencies as wind, etc. Thus procured, they are to be kept wrapped up in clothes saturated with the oil of red mustard seeds.

गेऽध्यायः।

कन्द्विषस्य शो ्। प्रथमोविधिः।

कित्तं चणकप्रायं विषं संरच्य भाजने। तत्र गोमूत्रकं चिप्त्वा प्रत्यहं नित्यनूतनम्॥ शोषयेत् त्रिदिनादृद्ध्ये धृत्वा तीव्रात्रपे ततः। चृिर्णतं तत् प्रयुञ्जीत गालितं वाससा विषम्॥

Purification of tuber poisons.

First process

These are purified, if they are cut into pieces of the size of chanaka grams, and kept immersed for three days in a pot containing cow's urine, which is to be replaced by fresh urine after every 24 hours. The pieces are then to be dried by the strong heat of the sun. They are next to be powdered, and sifted through a piece of cloth The poison, thus purified, may be used in medicines

द्वितीयोविधिः।

दोलायां त्रिफलाकाथे छागीचीरे दिवानिशम्। पाचितं शुद्धिमायाति कन्दाख्यं शुभदं विषम्॥

Second process.

Tuber poisons of beneficial nature are purified, if they are boiled, by means of a Dola-Jantram, with decoction of triphala and goats' milk, for 24 hours at a stretch.

तृतीयोविधिः।

गोमृत्रपूर्णपात्रे च दोलायन्त्रे विषं पचेत्। यामाप्टकं प्रयत्नेन ततोऽयं शुद्धिमाप्नुयात्॥

Third process

Prisons are purified, if they are boiled for 24 hours in a Dola-Jantram, filled with cow's urine.

कन्द्विषस्य मारणम्।

समटंकणसंपिष्टं तद्विषं मृतमुच्यते । याजयेत् सर्वरोगेषु न विकारं करोति तत् ॥

Killing of tuber poison

Purified tuber poison is killed, if it is rubbed with an equal quantity of tankana. It may then be used in medicines without producing any disturbance in the system.

विषसेवते पात्रापात्रम्।

शुद्धं विषं योगवाहं योज्यं योगे रसायने। दातव्यं सर्वरोगेषु घृताशिने हिताशिने॥ चोराशिने प्रदातव्यं रसायनवते नरे। न कोधिते न पिता े न क्लोवे न नृपालये॥ चुत्तृष्णाश्रमधर्माध्वशोषिणे चयरोगिणे। गर्मिणीबालवृद्धेषु रुचेषु न कदाचन॥ न दातव्यं न भोक्तव्यं विसंवादे विषं तथा। आचार्यण तु भोक्तव्यं शिष्यप्रत्यय रणात्॥

Persons fit to take poison.

Purified poison, which is an increaser of the properties of materials with which it is taken internally, should be used as an ingredient of medicines, meant for the cure of diseases only and of those meant for the cure and prevention of disease and senility. It may be applied in all sorts of diseases to one who takes clarified butter, salutary diet, milk, and observes the rules and regulations prescribed for taking a rasayanam

Poison should not be administered to patients of the following description—those who are irritable, those who have an excess of pittam; those who are impotent, members of a royal family, those who are worn out by hunger, thirst, physical strain, perspiration, and travels, those who have got consumption, pregnant women, children, old men, and those whose skin and other parts of the body appear to be rough and devoid of oily substance

Neither should poison be given or taken when there is a quarrel between the physician and the patient. In order to convince the disciple of the wholesomeness of poison, the precepter himself should take it in the presence of the former

विषसेवनस्य विधि:।

अश्वगन्धां त्रिशृिलनं गोजिह्वां त्रिफलामि । प्रथमं भच्चिरवा च सेवयेद् गरलं ततः॥ त्रह्मचयं प्रयत्नेन विषपाने समाचरेत्।
पथ्यं स्वस्थमना भुक्ता तदा सिद्धिर्न संश्यः॥
गव्यचीरघृतं पेयं शाल्यन्नं भच्चयेत् तथा।
शीतलं च पिवेत् तोयं पित्तलानि विवर्जयेत्॥
जांगलानि च मांसानि छागलोहं च मद्गुरान्।
शक्रां माचिकं चीरं सर्वं सेव्यं सुशीतलम्।
सेव्यं यतात् सदा पथ्यमपथ्यं दूरतस्त्यजेत्॥
विषं युञ्जीत नित्यं वै रसायनगुणौषिणः।
घृतापस्कृतदेहस्य विशुद्धस्य हिताशिनः॥
सात्त्विकस्योदिते भानौ योज्यं शीतवसन्तयोः।
प्राप्मे चात्यधिके व्याधौ न वर्षास न दुर्दिने॥

Directions for taking poison.

One who wants to take poison as a medicine should take, first of all, a decoction of aswa-gandha, gojihva, and triphala, mixed with mercury (either incinerated or in a state of compound with sulphur), and should commence taking poison from the next day. One who takes poison should observe the following directions during the period he takes the poison:—(1) He should abstain from sexual intercurse; (2) should take his diet without any perturbation of the mind, (3) should take cow's milked chirified butter, with rice of shall paddy, (4) it ild drink cold water, meat of jangala animals, blood, madgura fish, sugar, honey, and milk—

everything cold, and (5) whatever he should take should be salutary according to the Ayurveda.

The man who wishes to prevent or cure diseases as well as senility may take poison every day (in doses to be described below). Such a man should be of pure character, and should have previously refined his system by drinking clarified butter and taking salutary diet. Poison should be taken in the winter and spring. In cases of emergency, it may also be taken in summer, but should never be taken in the rainy season and in a bad weather.

विषमक्षणे मात्रा।

श्रारोटं क्ष भच्येत् पुग्यं विषं सर्षपमात्रकम् ।
प्रथमे दिवसे पश्चाद् द्वितीयादौ द्विसर्षपम् ॥
पश्चमे दिवसे विषं भच्चयेत् सर्षपत्रयम् ।
षट्सप्ताष्टदिनेऽप्येवं नवमे वेदसंख्यया ॥
भच्चयेद् राजिकावृद्धया यावद् गुञ्जामितं भवेत् ।
यवमात्रं प्रसेत् स्थो गुञ्जामात्रं तु कुष्टवान् ॥
मासमात्रप्रयोगेण हरेद् विषम् ।
पुग्डरीकं सविस्फोटं श्वेतमौदुम्बरं तथा ॥
छिन्नभिन्नं कापालाख्यं क्लिन्नाह्वं श्वगन्धि च ।
षग्मासस्य प्रयोगेण कामरूपो भवेन्नरः ॥
संवत्सरप्रयोगेण दिव्यदेहो भवेत् स हि ॥

^{*} आरोटमिति सुशोधितम्।

मात्रया भिचतं यताद विषमप्यमृतायते । अमृतं सहसा युक्तं शोतितं विषमेव वा ॥ सर्वविधविकाराय मृत्यवे वा न संशयः॥

Doses in which poison is to be taken.

The dose in which good and purified poisons are to be taken is one sarshapa on the first day; two sarshapas a day on the second, third, and fourth days; three sarshapas on the fifth, sixth, seventh, and eighth days; four sarshapas on the ninth day. The dose is to be increased by one sarshapa a day till it reaches one gunja or 36 sarshapas. A healthy man should not take more than one java or six sarshapas a day, but a leper should take one gunja in the maximum

One month's use of poison, in the prescribed way, cures kushtha (leprosy) of eight different kinds, vizpundarika, kustha with bisphota, white kustha or leucoderma, audumbara, chhinna-bhinna, kapala, klinna, and shavagandhi *

Six month's use of poison makes a man beautiful. One year's use cures all sorts of diseases Two year's use makes a man have a very beautiful complexion.

Taken in proper doses, poison acts like nectar. On the other hand, nectar or poison, taken all on a sudden, causes all sorts of troubles and even death

^{*} These should be compared with those given in Madhava Nidanam etc.

विषसेवने पथ्यम्।

घृतं चीरं सितां चौद्रं गोधूमं सिद्धतगडुलम् । श्रमित्वं सैन्धवं द्राचां मधुरं पानकं हिमम् ॥ ब्रह्मचर्यं हिमं देशं हिमं कालं हिमं जलम् । विषस्य सेवको मत्त्यों भजेदतिविचच्गाः ॥

 $Diets\ considered\ salutary\ at\ the\ time\ of\ taking$ poison

The following are considered beneficial to one who takes poison —

Clarified butter, milk, sugar, honey, wheat, rice prepared from boiling paddy and then drying it up and removing the husk in the usual way, maricha (black pepper), rock-salt, raisin, sweet and cold water, abstinence from sexual indulgence, residing in cold country, cold weather, and cold water

विषसेवने अपध्यम् । अभ्यस्तेऽपि विषे यलाद् वर्जनीयान् विवर्जयेत् । कटुम्ललवर्णं तैलं दिवास्व नलातपान् ॥

^{*} तण्डुलं द्विविधं यथा आतपतण्डुलं सिद्धतण्डुलं च । केवल-सूर्यातपयोगपूर्वकथान्योक्षि (हिंकि) घातेन धान्यतुषमपसार्य यत् तण्डुलं निर्मीयते, तदातपतण्डुलं कथ्यते । आदौ जलसिद्धं धान्यं पूर्वोक्तप्रकारेण निस्तुषीकृतं तु सिद्धतण्डुलमित्यभिधीयते । पूर्वं कथिश्चिद् वायुवर्द्धकमन्तिमं तु तद्दोषविरहितं लघुतरं चेति विश्वेयम् ।

हग्विभ्रमं कर्णरुजमन्यांश्चानिलजान् गदान्। विषं रुचाशिनः कुर्यान् मृत्युमेव त्वजीर्णिनः॥

Restrictions in diet in poison

The following are to be avoided during the time poison is taken, even if one gets accustomed to it — pungents, sours, saline food, oil, sleeping in day time, and heat of fire and of the sun. The man who, while taking poison, takes his diet without clarified butter being mixed with it, suffers from derangement of the eye-sight, diseases of the ears, and many other diseases due to the excess of vayu. Taking of poison by one who suffers from indigestion may lead even to one's death.

विषस्य प्रयोगः।

वातज्वरे विषं पेयं मस्तुना सहितं तथा। चीरेण सहितं तत्तु पातव्यं पित्तजे ज्वरे॥ कफजे छागमूत्रेण सर्वजे त्रिफलाम्भसा। रोधचन्दनषड्यन्थाशर्कराघृ ाचिकैः॥ चीरेण च विषं युक्तं जीर्णज्वरहरं परम्। निकुम्भकुम्भत्रिफलासपिर्मध्वविषेः कृतः॥ निहन्ति मोदको जीर्णज्वरमेहत्वगामयान्। शिखिकणिरसोपेतं विषमज्वरजिद् विषम्॥

Uses of inorganic poison

Inorganic poison of a benefic nature (such as aconite) and duly purified, cures fever due to vayu, if taken with mastu (butter milk) It cures fever due to pittam, if taken with milk, and that due to kapha, if taken with goat's urine Fever due to the three doshas is cured by poison taken with triphala water. Jeerna-jwara (a kind of remittent fever) is cured by poison, taken with lodhra, chandana, bacha, sugar, ghrita, honey, and milk Jeerna-jwara, prameha, and skin diseases are cured by poison, taken with root of danti, root of trivrit, triphala, ghrita, and madhu (honey) Poison cures vishama-jwara (Malaria, kalazar, etc.), if taken with the juice of shikhi-karna (nila-kantha vasaka).

विषं यष्ट्याह्वयं रा सेव्यमुत्पलकन्दकम् ।
तन्दुलोदकपीतानि रक्तपित्तस्य भेषजम् ॥
रास्नाविङ्क्षत्रिफलादेवदारुकट्त्रयम् ।
कं चौद्रममृता विषं च श्वासकासजित् ॥
सिता रसविषचीरप्रवालमधुकान्विता ।
श्वासिहक्कापहा लीढ़ा छिद्मा तु विषान्विता ॥
चीरोशीरमधुचाररजनोकूटजत्वचः ।
चयवनप्राश्संयुक्तं विषं चपयति चयम् ॥

Racta-pitta is cured, if poison is taken with jastimadhu, rasona, ushira, and root of utpala (water lily), all rubbed with water dissolved with powdered rice. Asthma and cough are cured, if poison is taken with rasona, viranga, triphala, deva-daru, trikatu, padma wood, and guruchi. Asthma and hiccough are cured if poison is taken with sugar, mercury, milk, ashes of pravala (coral), and jasti-madhu. Poison cures nausea, if taken with milk, ushira, madhu, java-kshara, haridra, and bark of kutaja. It cures phthisis, if taken with chyavana prasa (a well-known medicine to be described in a subsequent volume)

मुस्तावत्सकपाठाग्निव्योषप्रतिविषाविषम् । धातकीमोचनिर्यासं चृतास्थि ग्रहणीहरम् ॥ कृच्छ्रव्रं विषपथ्याग्निदन्तीद्राचानिशावृषाः । शिलाजतु विषं त्रूचषमुदावर्त्ताश्मरीहरम् ॥

Musta, indra-java, patha, chitraka root, trikatu, ati-visha, dhataki flower, mocha-rasa (exudation of kapock tree), kernel of the stone of a mangœ fruit, and poison, all combined, cure chronic diarrhoea Poison, haritaki, chitraka roots (or bhallataka?), danti roots, draksa (raisin), haridra, and vasaka, all mixed together, can cure difficulty in urination Shilajatu, poison, and trikatu, mixed together, can cure ashmari and udavarta

गोमूत्रचारसिन्धृत्थविषपाषाणभेद ्। वद् दारयत्येतदेकतः पीतमश्मरीम्॥ त्रिफलास्वर्जिकाचारै विषं गुल्मप्रभेदनम् । पिप्पली पिप्पलीमुलं विषं शूलहरं तथा ॥ विषं द्रवन्ती मधूकं द्राचारास्त्राशठीकणाः । विषा वेल्लिमिश्चारं गुल्मप्रीहिनवह ग्राम् ॥ प्रीहोदरम्नं पयसा शताह्वा कृमिजिद् विषम् । वायसीमूलिनिष्काथयुतं कुष्टहरं विषम् ॥ पयस्या ॥ राजवृच्यत्वक् त्रायन्ती वाकुची वला । प्रीह्मीभकणा एषां काथेन कुष्टजिद्व विषं ॥

Cow's unine, java-kshara, saindhava salt, tuber poison, all mixed with the juice of pashana-bhedi can cure stone disease. Tuber-poison, mixed with triphala and swarji-kshara, can cure gulma (tumours in the belly). Tuber-poison with pippali roots can cure colic. Dravanti, madhuka, draksha, rasna, shathi, pippali, ati visha, biranga, mishreyi (ani-seed) and java-kshara, all mixed with tuber-poison, can cure gulma and enlargement of the spleen. Sulpha, biranga, and tuber-poison, taken with milk, can cure enlargement of the spleen. Tuber-poison, taken with the decoction of the roots of kaka-machi, is a curer of leprosy.

Leprosy is cured, if tuber-poison is taken with decoction of arka-puspi, arag-badha, trayamana, bakuchi, bala, rohitaka, and gaja-pippali

पयस्येति अर्कपुष्पी ओक्रा इति भाषा ।

अथ जंगमविषम्।

जंगमस्य विषस्योक्तान्यधिष्ठानानि षोड्श। तत्र दृष्टिनिःश्वास-दंपूनस्वमूत्रपुरीपशुक्तठाठार्त्त्वमुखसंदशविषर्द्धित-गुदास्थिपित्तशूकशवा-नोति। अत्र विस्तरार्थं सुश्रुतस्य कल्पस्थाने तृतीयोऽध्यायो दृष्ट्यः।

विषेषु जंगमाख्येषु प्राह्यं नागोद्भवं विषम्। शस्तं बलवतो यूनः कुष्णसर्पाद् विषं नवम्॥ एतच्चैवागदश्रेष्ठं त्रिदोषचपणं क्रमात्। दीपनं कुरुते सद्यो वाड्वाग्निसमं हि तत्॥ सन्निपातप्रतीकारप्रभावप्रमुरुच्यते। यथाविधिप्रयुक्तं तद्विषमप्यमृतायते। मृतसञ्जीवनं तद्धि विस्चिषु ज्वरेषु च॥

ORGANIC POISON.

There are sixteen different sources of organic poisons, viz eye-sight, respiration, teeth, nails, urine, stool, semen, saliva, mense blood, sting, a peculiarly ugly sound made by the rectum, rectum, bone, bile, bristles, and carcases (For details, see Chapter III, Kalpa-sthanam, Sushruta)

Of all the organic poisons, only poison of snakes is to be utilized for medicinal purposes. The poison obtained from a youthfull black serpent (cobrastis preferable to that obtained from other serpents. This poison also has a great healing property. It gradu-

ally pacifies the three doshas It increases enormously the power of digestion, as soon as it is taken internally (of course, in the manner to be prescribed in vol IV and the subsequent volumes) In curing diseases due to the abnormal excess of the three doshas, it is the master of all the diugs Duly applied, it also acts like nectar, and is a reviver of the dead in cholera and in fever due to the three doshas.

सपविषस्य शोधनम्।

प्रथमोविधिः।

नागोद्भवं यथाप्राप्तं विषं गोमूत्रसंयुतम् । ञ्रातपे त्रिदिनं शुष्कं निहितं वीर्यधृग् भवेत् ॥

Purification of serpent poison

First process

Snake poison, in whatever way it may be obtained, is rendered powerful by mixing it with cow's urine and drying it up by sun's rays for three days.

हितीयोविधिः।

सर्षपं संप्लुतं सर्पविषं विशुध्यति॥

Second process.

Snake-poison is purified, if it is mixed with mustard oil

तृतीयोविधिः।

पर्णातोयोर्मुनिवृचतुलसीपत्रयो रसैः। काथेनापि च कुष्टस्य भावयेत् तत् त्रिधा त्रिधा। तदेव सर्वदा योज्यं नाविशुद्धं कदाचन॥

Third process.

Snake poison is purified, if it is subjected to bhavana, for three times each, with the juice of tambula, juice of the leaves of vaka, juice of the tulasi leaves, and decoction of kustha

विशेषेण जंगमविष-जनितविकाराः। निद्रां तन्द्रां क्रमं दाहं सफेगां लोमहर्षणम्। शोथं चैवातिसारं च कुरुते जं ं वि म् ॥

Symptoms due to organic poison.

These are sleep, drowsiness, fatigue, inflammation, coming out of froth from the mouth, standing of hair on end, swelling, and diarrhea.

सपेद्ंशनप्रतिकारः।

जयपालस्य मजानं भावयेन् निम्वुकद्रवैः। एकविंशतिवारं तु ततो वर्त्ति प्रकल्पयेत्॥

परवर्त्तिखण्डे विषचिकित्साध्याये सविस्तरं वर्णितः।

मनुष्य या घृष्ट्वा ततो नेत्रे प्रदापयेत्। सर्पदंष्ट्राविषं जित्वा संजीवयति मानवम्॥

Remedy of snake-bite.

Kernel of jayapala seed (previously purified) is to be subjected to bhavana for 21 times with lemon juice. It is then to be made into pills. Such a pill, rubbed with man's saliva, is to be put into the eyes, as a collyrium, of the man who has been bitten by a poisonous snake—By this, the man will be able to overcome snake-poison *

^{*} The subject will be dealt with elaborately in a subsequent volume in the chapter on treatment of poison

अष्टमोऽध्यायः।

अरथोपविषाणि।

स्तुद्धर्कलांगलीगुञ्जाह्यारिविषमुष्टिकाः। कनकं जयपालश्च भल्लातकं च निर्विषा॥ अतिविषाहिफेनं च जयाचोपविषाः स्मृताः। त्रयोदशकमेतत् तु विषवत् प्राणहारकम्॥ विषेश्चोपविषेष्टे ष्टश्छन्नपचः शिवो भवेत्। मुखं च जायते तस्य धातृंश्च यसते त्वरा॥॥

CHAPTER VII UPABISHA (SEMI-POISONS)

The following are considered semi-poisons — Snuhi, arka, langali, gunja, karabira, visha-musti, dhattura, jayapala, bhallataka, nirvisha, ativisha, ahiphena, and jaya (bhanga) These thirteen are also killers of life, if taken in excess

Rubbed with poisons and the semi-poisons, mercury becomes deprived of its wings, and grows hungry. It is then able to swallow and digest metals (without increasing in weight).

प्रथमखण्डे ७५ पृष्ठं

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[†] See page 76, Vol I

सामान्वनोपविषाणां शोधनम् । उपविषं विशुध्यति पञ्चगठयैर्विभावितम् ।॥ शोध्यं च दोलिकायन्त्रे चीरपृर्णेऽथ पात्रके ॥

Purification of semi-poisons in general

All the semi-poisons are purified, if subjected to bhavana with the pancha-gavya (milk, curd, clarified butter, urine, and dung of cow)

They are also purified by being boiled with milk by means of a Dola-Jantram

(१) स्नुही।

सेहुगडः सिंहतुगडः स्याद्वज्ञी वज्रद्रमोऽपि च।
सुधा समस्तदुग्धा च स्नुक् तथा स्यात् स्नुही गुड़ा ॥
सेहुगडो रेचनस्तीच्णो दीपनो कटुको गुरुः।
शूला छीलिकाध्मानकफगुल्मोदरानिलान्॥
उन्मादमेहकुष्ठाशःशोथमेदोऽश्मपागडुताः।
व्रणशोथज्वरप्रीहविषदूषीविषं हरेत्॥
उज्यावीयं स्नुहीचीरं स्निग्धं च कट्कं लघु।
गुल्मिनां कुष्ठिनां चापि तथैवोदररोगिगाम्।
हितमेतद्द विरेकार्थं ये चान्ये दीघरोगिगाः॥

क्षीरं दिध तथा चाज्यं मूत्रं गोमयमेव च । इति पञ्चगव्यम् ।

[†] दूषीविषमिति गरविषम्।

रसजलानाधः-तृतीयखण्डम्।

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(1) Snuhi.

Snuhi is laxative, strong, increaser of hunger, pungent, and heavy—It cures colic, mucus, asthila (growth of a lump of flesh alongside the navel), swelling of the belly by wind, kapha, gulma, wind in the stomach, insanity, sperma torrhea, leprosy, piles, dropsy, obesity, stone disease, anemia, boils, fever, enlargement of the spleen, poison, and artificial poison.

The milk of snuhi is warm in effect, soothing, pringent, and light. It is effective for the purpose of moving the bowels to those who suffer from gulma, leprosy, udara-roga, or some other chronic diseases.

स्नुहीक्षीरस्य शोधमम्।

चिश्चापत्ररसे कर्षे वस्त्रपृते पलद्वयम् । स्नुहीचीरं विभावयेत् रौद्रमध्ये प्र तः । द्रवे शुष्के समुत्तार्य सर्वरोगेषु योजयेत् ॥

Purification of the milk of snuhi.

One tola of the juice of the leaves of chincha, filtered by means of a piece of cloth, is to be mixed with eight tolas of the milk of arka. The liquid is then to be dried by the heat of the sun. Thus dried, the milk of arka becomes purified, and may then be used, where necessary

(२) अर्कः।

श्वेताकों गणरूपः स्यान् मन्दारो वसुकोऽपि च। श्वेतपुष्पः सदापुष्पः स चालकः प्रतापसः ॥ रक्तोऽपरोऽर्कनामा स्यादकंपर्गो विकीरगाः। रक्तपुष्पः शुक्कफलस्तथास्फोतः प्रकीर्त्तितः॥ अर्कद्वयं सरं वातकुष्टकगड्विपत्रगान् । निहन्ति भ्रीहगुल्मार्शःश्लेष्मोदरशकृत्क्रिमीन् ॥ श्रलर्ककुसुमं वृष्यं लघु दीपनपाचनम् । अरोचकप्रसेकाशःकासर्वासनिवारणम् ॥ रक्तार्कपुष्पं मधुरं सतिकं क्रप्टकिमिन्नं कफनाशनं च। अशोविषं हन्ति च रक्तपित्तं संग्राहि गुल्मे श्वयथौ हितं तत ॥ चीरमर्कस्य तिक्तोष्णं स्निग्धं सलवग्ं लघु। कुष्टगुलमोद्रहरं श्रेष्टमेतद् विरेचनम्॥

(2) $Ark\alpha$

Arka is of two kinds, viz white and red Both of them are laxative, and cure diseases due to vayu, leprosy, itches, poison, carbuncle, enlargement of the spleen, gulma, piles, phlegm, udara-roga, and worms in the stool

Flower of white arka is nutritious, light, digestive,

and curer of aversion to food, emission of phlegm, piles, cough, and asthma

Flower of red arka is sweet, bitter, and curer of leprosy, worms, phlegm, piles, poison, and racta-pitta. It is increaser of appetite and power of digestion, and beneficial in gulma and dropsy

The milk of arka is bitter and warm, soothing, saltish and light. It cures leprosy, gulma, udaratoga, and is a laxative.

(३) लांगली।

हिलनी किलहारी च शकपुष्पी च लांगली। विशल्याऽग्निशिखाऽनन्ता विह्विक्ता च गर्भनुत्॥ किलहारी सरा कुष्ठशोफाशों विषशूलिजित्। सन्ताग श्लेष्मिजित् तिक्ता कटुका तुवराऽपि च॥ नीच्णोष्णा किमिहल् लब्बी पित्त गर्भपातिनी॥

(3) Langali

Langali is laxative. It is efficacious in leprosy, dropsy, piles, boils, and colic It contains kshara (alkali) It cures cough and worms It is bitter, pungent, astringent, strong, warm, and light. It increases pitta and can cause abortion.

लांगल्या शोधनम्।

षांगरी शुन्धिराद्याति दिनं गोमूत्रसंस्थिता ।

Purification of Langali

Langali is purified, if kept immersed for one day in cow's urine.

(४) गुञ्जा।

श्वेता गुञ्जोचटा प्रोक्ता कृष्णला चापि सा समृता। रक्ता सा काकचिश्ची स्यात् काकग्एन्ती च रक्ति काकतिक्ता च सांगुष्टा च शिखिएडनी। रुचा च काकजङ्घा च कग्गीचि काकतुगिडका ॥ काका च काकिएा सौम्या काञ्ची कृष्णलक काकजिञ्जा शिखगडी च कम्बोजी भिल्लभूषगा॥ चूड़ामणिस्तथारुणा शीतपाकी च तारि ।। र । श्यामलचूड़ा च वन्या च कृष्णचूड़िका। कादनी काकपीलुः सा स्मृताङ्गारवल्लरी ॥ गुआद्वयं तु केश्यं स्याद् वातिपत्तज्वरापहम्। मुखशोषभ्रमश्वासतृष्णामद्विनाशनम् ॥ नेत्रामयहरं वृष्यं बल्यं कगडूत्रगां हरेत्। क्रिमीन्द्र प्रकुष्टानि र च धवलाऽपि च॥ वामकं ताम्रिकामूलमुच्चटावीजकं तथा। उच्चटापत्रकं हितं वशीकार्ये विशेषतः। गुआद्रयस्य हि हितं शुले तथा विषे॥

(५) करवीर।

करवीरः श्वेतपुष्पः शतकुम्भोऽश्वमारकः।
द्वितीयो रक्तपुष्पश्च चगडातो लगुड्स्तथा॥
तृतीयः पीतपुष्पश्च कृष्गपुष्पश्चतुर्थकः।
पाटलकुसुमश्चान्यः पञ्चैते करवीरकाः॥
करवीरगणस्तिकः कषायः कटुकश्च वै।
चतलाघवक्तन् नेत्रकोपकुष्ठत्रणापहः॥
वीर्योष्णः क्रिमिकग्रो भिच्चतो वि वन् मतः॥
पीतपुष्पस्तथा कृष्णपुष्पश्च श्वेतपुष्पवत्।
हयानां मारको चैव कुष्ठादिषु हितप्रदौ॥
पाटलकरवीरस्तु शिरोस्क्कफवात त्॥
श्वेतस्य पूर्वदिग्वर्त्तमृलमहिविषं जयेत्॥

(5) Karavıra

Karavira is of five different kinds, according to the colour of its flower viz. (a) white (b) red, (c) yellow, (d) black, and (e) violet

All of them are bitter, astringent, pungent, and are efficacious in ulcers, irritation of the eyes, leprosy, and boils. They are warm in their effect on the system. They cure worms and itches. They are to be used in the same way as poisons.

The white, yellow, and black varieties of karavira me killers of horses The violet variety is a pacifier

of head-ache, and diseases due to kapha and vayu. The root of a white karavira proceeding east-ward is efficacious in snake-poison.

करवीरस्य शोधनम्। गोदुग्धे दोलिकास्वेदाद् धयाराति र्विशुध्यति।

Purification of karavira

Karavira is purified, if boiled with milk by means of Dola-Jantram

(६) विषमुष्टिः।

विषमुष्टिर्जलद्श्च कुचिला दीर्घपत्रकः।
कुपीलुः कुलकः काकतिन्दुकः काकपीलुकः॥
कारस्करः कुपाकश्च कालपाकश्च रम्यकः।
काकेन्दुर्विषतिन्दुश्च तथा मर्कटतिन्दुकः॥
कुपीलु शीतलं तिक्तं वातलं मदकुल् लघु।
परं व्यथाहरं प्राहि ॥ कफपित्तास्रनाशनम्॥

(6) Visha-musti (kuchila).

Kuchila (nox-vomica) produces a cooling effect on the system. It is bitter, increaser of a slight vayu, intoxicating, light, highly remover of pain

^{*} दीपनं पाचकं यत् स्यादुष्णत्वाद् द्रवशोषणम् । प्राहि तच्य यथा शुएठी जीरकं गजपिष्पली ॥ दीपनिमिति जठराञ्चे दींपनं पाचन मिति आमपा

increaser of hunger, digestive, and destroyer of phlegm, pitta, blood, and (necessarily racta-pitta).

> विषमुष्टेः शोधनम्। प्रथमोविधिः ।

दोलायन्त्रेन संस्वितः कांजिके प्रहरद्वयम्। किञ्चिदाज्येन मृष्टश्च विषमुष्टिर्विश्रध्यति॥

Purification of visha-musti.

First process

Visha-musti (kuchila) is purified, if is is boiled with kanji for six hours by means of a Dola-Jantram, and then fried well with a little of clarified butter (till it is reduced to charcoal).

द्वितीयोविधिः।

स्विन्नो गोमयवारिभ्यां दोलायां पयसा ततः। घृतेनातः परं भृष्टो विषतिन्दुर्विशुध्यति ॥

Second process.

Visha-mustr is purified, if it is boiled by means of a Dola-Jantram with cowdung mixed \mathbf{with} water, then with milk, and then fried with clarified butter (till it is reduced to char-coal).

(७) धुस्तूरः।

धुस्तूरो देवता धूर्च उन्मत्तः कनकाह्वयः। धत्तृरः कितवस्तृरी महामोही शिवप्रियः॥ मातुलो मदनश्चास्य फलं मातुलपुत्रकः।
धुस्तूरो मदवर्गाग्नि तिक्वज्ज्ज्जरकुष्टनुत्॥
कषायो मधुरस्तिक्तो यूकालिचाविनाशकः।
उष्णो गुरुर्व्र गाश्लेष्मकगढूक्रमिविषापहः॥

(7) Dhustura (strammonium)

Dhattura increases intoxication, complexion, hunger, and vayu. It cures fever and leprosy. It is astringent, sweet, bitter, warm, and heavy. It destroys lice, boils, phlegm, itches, worms, and poisons.

धुस्तूरस्य शो । धूर्त्तवीजं चतुर्यामं गोमूत्रे निहितं पुनः। किराडतं निस्तुषं कृत्वा योगेषु विनियोजयेत्॥

Purification of dhattura.

Seeds of dhattura are purified, if they are kept immersed, for 12 hours, in cow's urine, and then deprived of their husks, by being thrashed with an iron rod in an iron mortar

(८) जयपालः।

जैपालो जयपालश्च चक्रदन्ती विरेचनः।
मलद्रावी म्भीबीजं क्रम्भिनीबीजमेव च॥
घगटाबीजं च घगिटगौबीजं निकुम्भबी म्।
रेचनबीजसंज्ञोऽयं शोधनबीजे च॥

जयपालो ग्ररुः स्निग्धो रेची पित्तकफापहः । अशुद्धोऽयमसून् हन्ति शुद्धोऽसौ सेव्यतेऽल्पतः ॥

(8) Jayapala (croton seeds).

Jayapala is heavy, remover of coarseness of the body, highly purgative, and pacifier of pittam and kapha. It takes away life, if taken unpurified and in excessive quantity. It should be taken purified, and in doses not exceeding one fourth of a ractical aday.

जयपालस्य शोधनम् । प्रथमो विधिः ।

पञ्चगव्येषु संशोध्य दूरीकार्यास्तु जिह्निकाः। ततोऽम्बवर्गे दशधा चारवर्गे त्रिधा पुनः॥ कुमारीकोद्रवचारजले चैव विशोधयेत्। शुद्ध एवं हि जैपालो वान्तिदाहविवर्जितः॥

Purification of Jayapala

First process

Jayapala seeds are purified, in the following way — They are first of all to be boiled with the pancha-gavya (see page 331) Scale-like tissues, which are found inside the seeds, are then to be removed. The seeds are then to be treated (i.e boiled or subjected to bhavana) with the amla-varga (vegetable acids) for ten times, with the ksharas for three times, with the juice of kanya for once only,

and with the solution of a kshara prepared from kodrava (a kind of paddy), for once only. Thus purified, jayapala seeds do not cause vomitting or inflammation.

द्वितीयो विधिः।

जैपालं रहितं त्वगंकुर क्ष रसैश्चाद्धिर्मले माहिषे निचित्तः त्रचहमुष्णतोयविमलं खल्वे सवस्त्रादितम् । लिप्तः नृतनखर्परेषु विगतस्नेहं रजःसंनिभं निम्बूकाम्बुविभावितं च बहुशः शुद्धं गुणा ंभवेत्॥

Second process

Jayapala seeds are first of all to be deprived of their skins, internal scales, and of their juices by being washed off with water. They are then to be kept concealed in the dung of buffalo for three days. They are next to be washed off with hot water and cleansed. Then they are to be rubbed with a piece of rag (which is meant to soak the oil) in a mortar. Next, they are to plaster the surface of a new earthen basin (which is to soak the rest of the oil). The jaypala is thus deprived of oil, and appear like dust. It is then to be subjected to bhavana for several times with lemon-juice. Thus purified, jayapala become excellent in quality.

ж अकुरामात जयपाळवाजाजार्हका |

तृतीयो विधिः।

वस्त्रे बद्धा तु जैपालं गोमयस्योदके न्यसेत्। पाचयेदु याममात्रं तु ततोऽयं शुद्धतां व्रजेत्॥

Third process

Jayapala seeds (deprived of their skins and scales) are purified, if they are boiled for three hours with the juice of buffalo stool.

चतुर्थो विधिः।

जैपालं निस्तुषं कृत्वा दुग्धे दोलायुते पचेत्। अन्तर्जिह्वां परित्यज्य युंज्याच रसकर्मणि॥

Fourth process

Jayapala seeds are purified, if they are deprived of their skins and internal scales, and then boiled with milk by means of a Dola-Jantram

(१) भल्लातकम्।

भल्लातकं त्रिषु अ प्रोक्तमहस्कोऽहष्करोऽशिकः। तथैवाशिमुखी भल्ली वीरवृत्तश्च शोफहृत्॥ वीरतर्वनहरूषे त्रणहृद्धभूतनाशकः। ग्रम्तःसत्त्व शैलबीजो निर्दहनस्तथा॥ क्रिमिन्नस्तपनश्चैव वातारिः स्फोटबीजकः। महातीत्त्रणः पृथग्बीजो बीजवृत्तो धनुस्तहः॥

^{*} त्रिषु इति त्रिषु लिङ्गेषु ।

भह्नातकफलं पकं खादुपाकरसं लघु । कषायं पाचनं क्षिण्धं तीच्णोष्णं छेदि भेदनम् ॥ मेध्यं वहिकरं हन्ति कफवातत्रणोदरम् । कुष्टाशीयहणीयुल्मशोफानाहुज्वरिक्तमीन् ॥ वृन्तमारुक्करं खादु पित्तव्नं केश्यमित्रकृत् । मज्जा भह्नातकस्य हि कषायो मधुरो लघुः । वृष्यश्चोष्णस्तथा शुक्रप्रदश्च कफवातहा ॥ हन्ति सर्वोदरानाहकुष्टाशीयहणीगदान् । तथा युल्मज्वरिश्वत्रवहिमान्यिक्रिमित्रणान् ॥

(9) Bhallataka.

Ripe fruits of bhallataka are sweet when digested, light, astringent, digestive, soothing, acrid, warm, reducer of fat, purgative, increaser of retentive faculties, and increaser of hunger. They destroy phlegm, vayu, sores, udara-roga, leprosy, piles, chronic diarrhoea, gulma, dropsy, intestinal obstruction, fever, and worms.

Stems of bhallataka fruits are sweet, pacifier of pittam, beneficial to hair, and increaser of power of digestion

Oil or marrow of bhallataka (which are generally used in medicines) are astringent, sweet, light, nutritive, warm, increaser of semen, pacifier of vayu and kapha. It destroys all sorts of udara-roga, intestinal obstruction, leprosy, piles, chronic diarro-

hoea, gulma, fever, leucoderma, loss of digestive power, worms and carbuncles

भह्वातकमज्जनिष्कर्षणम् ।

भ तकफलं पकं समानीय चिपेज् जले ।

मज्जित यदि तत् तत्र तदैव तिन्नयोजयेत् ॥

इष्टकाचूर्णसञ्जयेर्घर्षणाद् विमलं भवेत् ।

श्रस्यान् मुक्तं फलं तच्च बीजरूपं यहीष्यिति ॥

ईदृशान्यित्रवीजानि खिण्डतानि ततः परम् ।

लौहपात्रे पचेद् यलाद् वारिणा हि बहुचणम् ॥

मज्जा भल्लातकस्येत्थं निर्गच्छेद्गियोगतः ।

सन्तरेत् कृष्णवर्णश्च वारिष्ण्ठे शनैः शनैः ॥

समुद्धरेत् प्रयलात् तं यावदसौ बिहर्भवेत् ।

निःशेषमागते तिस्मन् हुताशनं निवापयेत् ॥

श्रथवा पातयेत् सत्त्वं भल्लातकफलस्य वै ।

पातालयन्त्रयोगेन मज्जरूपं यथाविधि ॥

Extraction of the essence (oil) of bhallataka fruits

For the purpose of extraction of oil or essence of bhallataka fruits, only those which are ripe and sink in water are to be selected. These fruits are first of all to be denuded of the kernel surrounding

द्वितीयखण्डे १२७ पृष्ठे पादटीका द्रष्ट्या ।

the seeds, by means of being rubbed with powdered bricks. The seeds are then to be cut into pieces and boiled with water in an iron cauldron. Thus boiled, the seeds will let out their essence of black colour, which will collect gradually upon the surface of the water. The essence or oil, thus extracted, will have to be taken up carefully. The heating will have to be discontinued when all the essence has been taken up.

The essence of the bhallataka seeds, cut into pieces, may also be extracted by means of the Patala Jantram (see foot-note, page 127, Vol II)

(१०) निर्विषाः।*

निर्विषा मुस्तकाकारा सा हि तृणं विषापहम् । चेत्राल्यादिस्थले सैव जायते हि विशेषतः ॥ अविषाऽपविषा सा तु निर्विषी विषहाऽपि च । विषाभावा विषहन्त्री निर्विषा विषवैरिणी ॥ निर्विषा कटुशीतला त्रणानां रोपिका तथा । कफवातविषास्त्राणां नितरां शान्तिदायिका ॥ शिरोव्यथां निहन्त्याशु ललाटस्पर्शनात् त्रिधा । शङ्खात् सव्येतरसमाच सव्यशङ्खांतकं हि सा ॥

श्यामकाँकुला इति भाषा ।

शङ्को इति भ्रुवोरन्तोपिर कर्णल्लाटयोर्मध्ये अस्थिममैष् सार्झाङ्गले सद्योमारके चेदाहते।

(10) Nirvisa.

It is a kind of grass of the appearance of mustaka. It generally grows in such places as landmarka of agricultural fields

This grass is pungent, cool, and healer of ulcers It pacifies kapha, vayu, impurities of the blood, and various kinds of poison. It cures head-ache immediately, if it is made to touch the skin of the fore-head by being drawn across it for three times beginning with the side of the left ear to that of the right ear

(११) अतिविषा।

विषा त्वतिविषा विश्वा शृङ्को प्रतिविषारुणा।
शुङ्ककन्दा चोपविषा भङ्करा घुणवञ्चभा॥
विषा सोष्णा कटुस्तिक्ता पाचनी दीपनी हरेत्।
कफिपत्तातिसारामविषकासविमिकिमीन्॥

(11) Ativisha.

Ativisha is warm, pungent, bitter, digestive, and increaser of hunger It cures kapha, pittam, diarrhoea, mucus, poison, cough, vomitting, and worms.

(१२) अहिफेनम्। अहिगुल्मोद्भवं फलं खसफलं च कथ्यते। विज्ञायतेऽहिफेनकं निर्यासस्तत्फलस्य हि॥

श्रहिफेनं सुतिक्तं च मदक्रद् निद्राकारकम् । वेदनाचेपनाशनं स्पर्शशक्तिविनाशकम् ॥ कफश्वासनिवर्दशं याद्दि पित्तानिलप्रदम् । धातूनां शोषगं रुचं दाहमेहादिवर्द्धनम् ॥ श्रतिसारे यहगयां च हितं खल्पप्रमागातः । बहुदिनं न सेव्यं तत् खास्थ्यायुःसुखमिच्छता ॥

अहिफेनस्य भेदाः।

श्रहिफेनं चतुर्विधं श्वेतं पीतं तथाऽसितम् । कर्वूरं च विजानीयाच्छे तमग्निविवर्द्धं नम् ॥ श्रिसतं जीवनं हन्ति पीतं स्तम्भकरं परम् । कर्वूरमहिफेनं हि मलमूत्रादिरेचनम् ॥

(12) Opium.

Opium is bitter, intoxicating, inducer of sleep, remover of pain and spasm, destroyer of sensibility, kapha, and asthma, digestive, increaser of hunger, increaser of vayu and pittam, destroyer of the dhatus, depriving the body of its oily substance, and causing inflammation and spermatorrhoea. It is efficacious in diarrhoea, acute as well as chronic, if taken in small quantities. No one who desires to live a healthy, happy, and long life should take opium for a long time.

अहिफेनस्य शो ्।

शृङ्गवेररसैर्भाव्यमहिफेनं त्रिसप्तशः। अतोऽयं शुद्धिमायाति योज्यं ततो यथाविधि॥

Purification of Opium

Opium is purfied, if subjected to bhavana with ginger juice for twenty one times

(१३) जया।

तुलानी जया भङ्गा मादिनी विजया तथा।
चप वीरपत्रा च सिद्धिरिन्द्राशनं च सा।
अजेयाऽऽनन्दसंज्ञा च मादियत्री च हर्षिणी॥
भङ्गा कफहरी तिक्ता अ श्राहिणी कषाया कटुः।
तीच्णोष्णा पित्तला लघुर्वाग्मेह † मदबद्धिनी॥
मदनोद्दीपनी निद्राजननी हर्षद्यिनी।
धनुःस्तम्भं जलत्रासं विसूचीं च मदात्ययम्।
प्रवृत्तिं रजसो बह्वीं हन्त्यपत्यप्रसूतिकृत्॥

(13) Jaya (bhang—Cannabis sativa)

Bhanga is a destroyer of kapha. It is bitter, increaser of hunger and power of digestion, light, strong, warm, increaser of pittam, spermatorrhoea,

^{*} मतान्तरे कट्तिक्तकषाया।

क मेहस्थले मेधेति पाठान्तरम्।

intoxication, power of speech, sexual desire, sleep, and laugh. It is efficacious in titanus, hydrophobœa, cholera, and after-effects of alchohol and hæmorrhage after child-birth.

: शो

प्रथमोविधिः।

वव्बूलत्वक्कषायेण भङ्गां संस्वेद्य शोषयेत्। गोदुग्धैर्भावनां दत्त्वा शुष्कां सर्वत्र योजयेत्॥

Purification of jaya First process.

Jaya is purified, if it is boiled with the decoction of the bark of babbula, then dried, and again subjected to bhavana with cow's milk

द्वितीयोविधिः।

गोदुग्धे स्वेदिता भङ्गा शोषिता घृतभर्जिता। शुध्यति युज्यते तदा योगेषु सा यथाविधि॥

Second process.

Jaya is purified, if it is boiled with milk, then dried, and fried with clarified butter.

गञ्जा।

पुष्पं जयाविशेषस्य गञ्जेति कथ्यते बुधैः। धिक्येन जयादोषान् गुणांश्चापि विभक्तिं सा। कदाचन न सेव्या सा जीवितसुखमिच्छता॥

निर्यासः खरसोऽपि च गञ्जाया हि विभीषणः। गञ्जारसः क स कथ्यते पिवेत् तं न कदाचन॥

Ganja (cannabis Indica)

Ganja is a flower of a kind of jaya It possesses, in excess, all the merits and demerits of jaya. One who wishes to live a happy life should not take (drink or smoke) ganja

The exudation, juice, or tincture of ganja is commonly called "charas". It is horribly injurious and should be avoided altogether

उपविषविकाराणां शान्तिः।

अहिफैनि शान्तिः।

(१)

बृहत् चृद्राम्बुनः पलमात्रं दुग्धेन सेवनात् । अहिफेनविषं शीघं निराक्टतं भवेद् ध्रुवम् ॥

Remedy of Semi-poisons Opium.

(1)

Poison of opium is speedily counteracted, if four tolas of the juice of the larger variety of small ambu (karaballi? or thorny tanduliyaka?) is taken with milk.

मञ्जारस —चरस् इति भाषा।

(2)

उग्रसिन्धुस्तथा ऋष्णा मजा मादनकी तथा। संपिष्टास्तप्तनीरेण पीताश्च नागफेनजित्॥

(2)

Poison of opium is destroyed, if saindhava (rock-salt), pippali, and kernel of madana fruit are pestled together and drunk with hot water.

(३)

टंकनं नीलतुत्थं च घृतयुक्तं च दापयेत्। तदुवान्तिं कारयेत् सद्यो नागफेनविषं जयेत्॥

(3)

Tankana and tutthaka are to be taken with clarified butter. This causes vomitting and thereby removes opium poison from the system

धुस्तूरबीजस्य शान्तिः।

(?)

वृन्ताकफलबीजस्य रसो हि पलमात्रकः। भचणादु भुक्तधुस्तूरविषं हन्ति सुनिश्चितम्॥

Dhattura Poison.

(1)

Poison of dhustura is nullified by drinking four tolas of the juice of seeds of egg fruits (brinjals).

र्पासास्थियुतं पुष्पं जलेनोत् ध्य पानतः। धत्त्र विषं हन्ति तथा णसेवनम्॥

(2)

Poison of dhatura is destroyed by drinking the decoction of flowers of cotton combined with their stones Drinking of saline water also serves the same purpose.

(३) गोदुग्धं प्रस्थमेकं च शकरायाः पलद्वयम्। तत्पानेन विषं याति धस्तूर न संश्यः॥

(3)

One prastha (64 tolas) of cow's milk and eight tolas of sugar, drunk together, counter-act the poison of dhastura

भल्लातकविकारस्य शान्तिः।

(?)

स्वरसो मेघनादस्य नवनीतेन संयुतः। भक्षातकभवं शोफं हन्ति लेपेन तत्च्यात्॥

Remedy of Bhallataka poison.

(1)

Swelling, due to bhallataka poison, is remedied by the external application of a plaster made of butter and juice of meghanada.

(2)

दारुसर्षपमुस्तानि नवनीतेन लेपयेत्। भन्नातकविकारोऽयं सद्यो गच्छति निश्चितम्॥

(2)

Troubles, due to bhallataka, are removed by the external application of devadaru, sarshapa (mustard seeds), musta, and butter, pestled together.

(🔰)

नवनीतं तिलं दुग्धं पिष्टं खगडयुतं तथा। लेपनात् शान्तिमायाति भन्नातकविषव्यथा॥

(3)

Swelling and irritation, due to bhallataka poison, is pacified by the external application of butter, sesamus (tila), milk, and khanda gurh (molasses purified and condensed into a tawny-coloured lump)

जयाविषस्य शान्तिः।

(१)

शुग्ठी गोद्धियुक्ता च पीता भंगाविकारनुत्।

Remedy of bhanga poison.

(1)

Troubles due to bhanga poison are remedied by drinking shunthi, mixed with cow's curd.

(२)

पनसपत्रनी रेण जयाविषं प्रशाम्यति ।

(2)

Troubles due to bhang poison are remedied by the juice of the leaves of panasa tree, taken internally.

गञ्जाविषस्य शान्तिः ।

(१) मेघनादरसः पेयः शर्करासंयुतस्ततः। चीरं पेयं यथासाध्यमुचटाविषपीड़ितैः॥

Remedy of gunja poison

(1)

Troubles due to gunja poison are remedied by drinking the juice of meghanada, mixed with sugar, and then drinking milk.

(2)

मधुखर्जुरमृद्विका वृचाम्लं चाम्लदाड़िमौ। परुषेश्चामलैर्युक्ताः सद्योगुञ्जाविकारनुत् ॥

(2)

The following removes speedily the troubles due to gunja poison -honey, dates, grapes, tamarınd, sour pomegranates, parusha fruits, and amalaki, all rubbed together and taken internally

करवीरविषशान्तिः।

द वा वाऽपि माहिषेगा रि ।। अथवार्कत्वचा पीता करवीरिं ।प ॥

Remedy of karabira poison.

Sugar-candy, mixed with buffalo's milk, or curd, or bark of arka plant, taken internally, removes troubles due to karabira poison

स्जुहीविषविकारस्य शान्तिः।

(१)

शीतवारिधुता पोता सिता वज्रीविषाप । शीतवायुस्ततः कार्यः शीतच्छायां च संभजेत् । चिश्चापत्रं जले पिष्टृा पिबेद् विषोपशान्तये ॥

Remedy of snuhr poison

(1)

Troubles due to snuhi poison are removed by drinking cold water, mixed with sugar-candy, and by being treated with cooling fan and resorting to a cool and shady place. Tamarind leaves, pestled with water, should also be taken in such cases.

(२) हेमगैरिकयुग्वारि स्नुह्यर्कजविकारनुत्।

(2)

Water, mixed with red ochre (see page 146, vol II), removes troubles due to the poisons of snuhi and arka.

अर्कविषविकारस्य शान्तिः । (स्तुद्दीविषविकारशान्तये द्वितीयोविधिद्वे घुन्यः ।) 356 Remedy of arka poison. (See Remedy of snuhi poison, No. 2.)

जयपालविकारस्य शान्तिः। धन्याकं सितया युक्तं पीतं दश्ला समन्वितम्। जयपालभवं दोषं दूरीकरोति निश्चितम्॥

Remedy of jayapala poison.

Dhanya (coriander seeds), pestled with curd and sugar, removes troubles due to croton seeds

अथ शोधनीयानां कतिपयद्रब्यानां शोधनविधयः ।

वृद्धदारस्य बीजानि रौद्रमध्ये विशोधयेत्। स्वल्पसैन्धवयुक्तेन द्रवेगा मिलितानि वै॥ मयूरस्य कषायेगा तानि वा परिशोधयेत्। स्रथवा दोलिकायन्त्रे दुग्धेन सह पाचनात्॥

Purification of some materials requiring purification.

The seeds of vriddha-dara are purified, if dried in the sun, after having been saturated with a solution made of water and a little of rock-salt. They may also be purified, by being boiled with (or subjected to bhavana with) the decoction of apamarga; or by being boiled with milk by means of Dola Jantram.

ामार्गकषायेण निम्बबीजं श्र विशोधयेत्। शिय्र कार्पासवीजानि अपामार्गस्य बीजकम्। धर्मेण शोधयेत् सर्वमेतद् द्रव्यान्तरं विना॥ कषायेणेन्द्रवारुण्या राजवृत्तस्य बीजकम्। मूलकाथैः कुमार्थ्याश्च जैपालबीजशोधनम्॥ समूलोत्तरवारुण्या बीजं शुध्यति कानकम्॥

Seeds of nimba (nimboo, according to another text) are purified by the decoction of apamarga. Seeds of shigru, karpasa (cotton), and apamarga are purified only by being dried in the sun. Seeds of aragbadha are purified by the decoction of indrabaruni. Seeds of jayapala (croton) by the decoction of the root of kanya, and the seeds of dhustura by the decoction of uttarabaruni including its roots

तिक्ता कोषातकी दन्ती पटोली चेन्द्रवारुगी। कटुतुम्बी देवदादी कार्ज्युग्रही च शुध्यति। धात्रीफलरसेनैवं महाकालस्य शोधनम्॥ करञ्जयुग्मयोबीजं भृङ्गराजेन शोधयेत्॥

Seeds of katuki, koshataki, danti, patola, indrabaruni, katu-tumbi, deva-dali, white gunja, and mahakala—all of these are purified by the juice of amalaki. Seeds of karanja and karanji (visa-karanja) are purified by the juice of bhringa raja.

निम्बुबीजिमिति पाठान्तरम् ।

गुञ्जादिसर्वबीजानां नरमूत्रैः पटुं विना । नारिकेलाम्बुना शोध्यं विल्वं भन्नातकं च वै ॥

Gunja and the other seeds are purified by human urine, not mixed with salt. Seeds of vilba and bhallataka are purified by cocoa-nut water.

गुग्गुलुशोधनन् ।

(१)

काथे हि दशमूलस्य चोष्णे प्रचिप्य गुग्गुलुम् । आलो व्रस्नपूतं तं चगडातपविशोषितम् । घृताक्तं पिगिडतं कुर्याद् यत्नात् तस्य विशुद्धये ॥

(२)

श्रमृतायाः ।येण शोधयेद् वापि गुग्गुलुम् । दोलायन्त्रे यथाविधि शोषयेदातपे ः॥

(३)

दुग्धे वा त्रिफलाकाथे दो यन्त्रविपाचितः। वाससा गालितो याद्यः सर्वकर्मसु गुग्गुलुः॥

Purification of Guggulu.

Guggulu is purified, if it is dissolved with a decoction of dasha-mula, and then filtered through a piece of cloth, and dried in the intense heat of the sun

(2)

Guggulu my also be purified, if boiled with the decoction of guruchi by Dola Jantram, and then dried in the sun

(3)

Guggulu may also be purified by being boiled with milk or decoction of triphala by the Dola Jantram.

जलौकाशोधनम्।

चिरंतनीं जलौकां हि ताम्रपात्रे सुरच्येत्। चतुर्माषं निशाचूर्णं जलाष्टकपले चिपेत्॥ तस्मिन् चिपेत् जलौकां तां खयं लालां परित्यजेत्। त्यक्तलाला जलौका हि प्रयोज्या रक्तमोच्यो॥ कपिला रोमपृष्ठा च रक्तरेला च दुर्वला। वर्जनीया विशेषेण भिषजा कीर्त्तिमिच्छता॥

Purification of Leeches

A leech, which is sufficiently old, is to be kept in a copper pot. It is to be immersed in 32 tolas of water, mixed with one fourth of a tola of powdered haridra (turmeric) Thus treated, it will give out its saliva Purified in this way, the leech may be applied for the purpose of blood-sucking

A leech of the following description is to be avoided —

(1) A leech which has got furs on its body, or (2) one which is of tawny colour; or (3) one which has got red lines on its body, or (4) one which is weak.

नवमोऽध्यायः ।

अथ तैलपातनम्।

सामान्येन सववीजानां तैलपातनविधिः।

(१)

अपक क भानुपत्राणां रसमादाय भावयेत्। यत्किश्चिद्व बीजचूर्णं च ज्ञातं वा न ज्ञातं च वा ॥ बद्धं ततस्तच स्थापयेत् स्थालिकोपरि। तपे मुच्यते तैलमन्यथाऽसाध्यमेव च॥

CHAPTER IX

EXTRACTION OF OIL FROM SEEDS OF ANY KIND

(1)

Any kind of seed, known or unknown, is to be powdered very finely, and subjected to bhavana with the juice of green † leaves of arka. The seed is then to be kept, tightly confined in a piece of cloth, and placed upon a pot in the sun. Oil will come out of the bundle containing the seed.

इति पाठान्तरम् ।

⁺ Ripe, according to another text

(?)

पर्याप्तमात्रबीजानां तैलमाशु विपात्यते । तैलकारस्य घूर्णिना यथा सवै विंदृश्यते ॥

(2)

Oil can be extracted from oil-seeds, of sufficient quantity, by means of the well-known machine used by oilmen

(३)

यत्किञ्चिद्वीजचूर्णाणि वस्त्रपूतानि कारयेत्। समूलोत्तरवारुणीकाथेन तानि मर्दयेत्॥ तेनालिप्तं कांस्यपात्रं धारयेदातपे खरे। सुतप्तं वस्तपूतं च पातितं तैलमाहरेत्॥

(3)

Seeds of any kind are to be powdered very fine, and sifted through a piece of cloth. They are then to be rubbed with the decoction of uttarabaruni with its roots, and made into a paste with which is to be smeared the internal surface of a bell-metal pot, kept in the intense heat of the sun. Thus heated, the paste will yield oil which is to be filtered by means of a piece of cloth

(8)

सर्वबीजास्थिमांसानां शुष्काणां पेषणान्मुहुः। पातयेद् यत्नतस्तैलं यन्त्रेन पातालाख्यके 🕸 ॥

इतीयखण्डे १२७ पृष्ठे पादरीका द्रष्टव्या ।

(4)

Oil can be extracted by means of the Patala Jantram from all sorts of seeds, bones, and flesh, dried and pounded over and over again *

(4)

त्रंकोल्लवीजसंभृतं चुर्णं संमर्दच काञ्जिकैः।
एकरात्रं पितं तत् तु पिगडीकृत्य ततः परम्॥
स्वेदयेन् कम्दुके यन्त्रे घटिकाद्वितयं ततः।
तां च पिगडीं दृढ्ढं वस्त्रे बद्धा निस्पीड्य काष्टतः॥
अधःपात्रस्थितं तेलं समाहृत्य नियोजयेत्।
एवं कन्दुकयन्त्रेन † सर्वतैलान्युपाहरेत्॥

(5)

Seeds of ankolla, pestled with kanji, are to be kept one night, and then made into a lump which is to be heated by means of the kanduka Jantram or Swedani Jantram (see page 251, vol I), for two hours. It is then to be confined tightly in a piece of tough cloth, and pressed by means of a strong piece of wood resulting in the extraction of oil.

Oil can thus be extracted from all sorts of seed.

for not page 127, vol 11.

प्रथमकण्डे २५१ पृष्टं द्रष्ट्यम् ।

विशेषेण बीजानां तैलपातनविधिः।

मूलान्युत्तरवारुगया जर्जरीकृत्य काञ्जिके। चिपेदंकोल्लवीजानां पेषितं तत्र यत्नतः॥ तेनालिप्तं कांस्यपात्रं धारयेदातपे खरे। सुतप्तं वस्त्रपूतं च स्त्यानं तैलं समाहरेत्॥

Extraction of oil from seeds, in particular.

Root of uttarabarum is to be pestled with kanji with which is to be mixed seeds of ankolla, pestled very fine. The whole thing is to be mixed well. The inner surface of a bell-metal pot is to be smeared with this paste and kept in the sun. The thick oil, which will come out of the paste, is to be filtered by means of a fine piece of cloth,

संपेष्योत्तरवारुगयाः पेटकार्या दलान्यथ । काञ्जिकेन ततस्तेन कल्केन परिमर्द्येत् ॥ रजश्चाङ्कोल्लवीजानां तद् बद्धा विरलाम्बरे । प्रविलम्ब्यातपे तीत्रे तस्याधश्चषकं न्यसेत् । तस्मिन् निपतितं तैलमादेयं श्वित्रनाशनम् ॥

Leaves of uttara-barum and petakar are to be rubbed with kanji and made into a paste. Powdered seeds of ankolla are to be rubbed with this paste, which is then to be confined in a piece of thin cloth and kept hanging in the sun over a pot meant to con-

tain the oil which is to fall, drop by drop, upon it. This oil cures Leucoderma

Oil can be extracted from the ankota seeds by being rubbed with the decoction of gunja plant with its roots, in the same way as from the seeds of dhustura, rubbed with the decoction of uttara-burani. Oil can similarly be extracted from the seeds of bakuchi and devadali, separately, by being rubbed with the decoction of karkoti, from the seeds of kuchila, being rubbed with the decoction of apamarga, from seeds of jayapala (croton), being rubbed with the decoction of the roots of kanya.

रक्तापामार्गसंकाथैर्वाकुचीतैलमाहरेत्। काथेन चेन्द्रवारुगया ै मारग्वधस्य च॥

In the same way, oil can be extracted from bakuchi seeds, rubbed with the decoction of red apamarga, and from aragbadha seeds, rubbed with the decoction of indrabaruni;

बीजानि कटुतुम्ब्याश्च गोमयेन ि गोड़येत्। शुष्कं धान्यतुषेः सार्द्धं कुदृयेत् तदुदूखले॥ निस्तुपं तं विचृएर्याऽथ भृद्गराजरसैः सह। मर्दयित्वातपे तैलं गृहीयात् पीड़ने ततः॥

Seeds of katu-tumbi are to be rolled with cowding. When dried, they are to be husked along with dry husks of paddy in a mortar. The seeds are next to be separated from the husks, and pestled with the juice of bhringa-raja. The paste, thus prepared, is next to be heated in the sun, and pressed, confined in a piece of cloth, so that oil comes out of it.

कृष्णायाः काकतुगुड्याश्च वीजानि परिचूर्णयेत्। कान्तपाप गाचूर्णेण तच्चूर्णं े येत् ततः॥ धान्यराश्चे ततः स्थाप्यमुद्धृते तैलमाहरेत्। अपामार्गस्य सं थैरातपे हि यथाविधि॥

Seeds of black as well as of white gunjas are to be powdered. This powder is to be commingled with powdered load stone, the whole thing being kept inside a heap of paddy for sometime. It is then to be rubbed with the decoction of apamarga, and oil to be extracted from it in the afore-said way.

धात्रीफलरसैर्भाव्यं चूर्णं पाषाण्बीजजम् । दिनैकं च ततो यलात् तैलं याद्यं च घूर्णितः ॥

नवमोऽध्यायः।

Powdered seeds of pashana (?) are to be subjected to bhavana with the juice of amalaki for one day, and then oil is to be extracted from them by means of the ghurni machine

य अचूर्णाणि नरमृत्रेण भावयेत्। रं ततो घर्मे लेपयेत् कांस्यभाजनम्। उद्घृत्य धारयेद्व घर्मे तैलं पतति पीड़नात्॥

Powdered gunja as well as karanja seeds are to be subjected to bhavana with human urine for seven times. The inner surface of a bell-metal pot is next to be smeared with the paste, thus prepared, and heated for sometime in the sun. The paste is next to be confined in a piece of cloth, heated in the sun, and pressed so that oil comes out of it.

वर्षमानारगालेन पिष्ट्वा चूर्णं विभावयेत् । ज्योतिष्मत्युत्थबीजानामातपे तैलमाहरेत् ॥

Powdered seeds of jyotismati are to be pestled with aranala of one year's standing, and subjected to bhavana with the same liquid. The paste is next to be heated in the sun, and oil extracted, as before.

पुत्रंजीवस्य बी नां चूर्णमगस्तिबीजजम् । तवत् प्रकर्त्तव्यं पात्यं तैलं पृथक् पृथक् ॥

नारिकेलाम्बुना भाव्यं विल्लबीजस्य चूर्णकम् । दिनैकं तैलयन्त्रेण तैल्याह्यस्थ योजयेत् ॥

Powdered seeds of putranjiba as well as of age are to be made into a lump of the shape of amrate or hog plum (by being rubbed with water or dection of uttara-barum), and then pressed, as before, extraction of oil Powdered seeds of vilba are to subjected to bhavana with cocoanut water for day, before oil is extracted from them by means the oil-machine (ghurm)

निस्तुपं कोलवीजानां मुखं किञ्चिद् विघर्षयेत् । लेपयेत् कांस्यपात्रे तान् पिष्टचनकलेपनैः ॥ तन्मुखं चूर्णटंकगां किञ्चित् किञ्चित् प्रलेपयेत् । धारयेदातपे तीत्रे मुखात् तेलं समाहरेत्॥

Mouths of ankola seeds, previously separated from their husks, are to be rubbed a little. Each of them is then to be kept on a bell-metal pot, and separated air and with chanaka grams made into a product of it is at the of each of these is to be smeared with a first made of powdered borax (tankana). All I there seeds are then to be placed in the strong that if he same Oil, coming out of the mouths of these seeds, is then to be collected.

श्मीचृर्णं समं पिष्ट्रा छिद्रभागडे निवेशयेत्। छिद्राधः स्थापयेद् भागडं छिद्रे केशं च दापयेत्।।

जलेन सेचयेद द्रव्यं छिद्राधो हयेच तम्। तन्मध्ये धृतकेशस्य चिपेदूद्ध्र पुटं शनैः। तत् चुणादु द्रवरूपं च केशतैलं बहिर्भवेत्॥

Powdered seeds of shami are to be pestled very finely and kept inside a pot having a hole at its bottom. This pot is to be put upon another pot. The hole in the upper pot is to be stopped by means of hair. Some water is to be poured into the upper pot (The lower part and that part of the upper pot which contains the hair are to be kept in a pit made in the ground). A fire is to be made covering the upper pot with the result that water will fall, first of all, into the lower pot, followed by oil, (This is only a kind of Patala Jantram)

दशमोऽध्यायः ।

अथ सन्धानवगः।

सन्धानं त्रिविधं ज्ञेयं प्रथमं मदिरान्वितम् । द्वितीयं मदिराहीनं भेषजं च निगद्यते ॥ चिरस्थायि भवेद्द द्वयं कालेन गुण्यवत्तरम् । दिरं तृतीयं तत् खल्पकाले विनश्यति । तद्पि युज्यते गदे गौण्तः पीयतेऽपि च ॥

CHAPTER X

Sandhanas are of three differnt kinds, viz (1) alcoholic, (2) non-alcoholic but fermented drugs, such as asavas, aristas, etc., and (3) non-alcoholic but fermented drinks, sometimes used as ingredients of medicines (such as kanji).

Of these, the first two are practically everlasting, and increase in quality every day, whereas the third does not last for a very long time

(१) मिंदरं सन्धानम् (्)। मद्यं बहुविधं प्रोक्तं तन्नाम मदिरा सुरा। इरा च रणं तत्त्वं महानन्दा च माणिका॥ अमृता माधवी मदनी मो दिनी मधु। दित्यपत्यप्रिया चैव मिनी किपशी तथा॥ सुरा बहुविधा ज्ञेया तत्राष्ट प्रथिता भुवि। गौड़ी माध्वी तथा पैष्टी कादम्बरी च वारुणी। माधकी चैव मैरेयी मार्डीकेति सुराष्टकम्॥ विभेदेन सुरा हि द्विविधा मता। तेजोयन्त्रादि ॥ योगेन प संजायते हि सा॥

(1) Alcoholic Liquors (wine)

Wine is of various kinds Of these, the following eight are well-known:—(a) gouri, (b) madhvi, (c) paisti, (d) kadamvari (e) varuni, (f) madhuki (g) maireyi and (h) mardi

Wine may be undistilled as well as distilled. It may be distilled by means of the Tejo-Jantram, Nadika Jantram, Baruni Jantram, and Baka Jantram (see pages 280-85, vol. I).

(क) गौड़ी। धातकीग्रड़मुख्या गौड़ी मदिरोच्यते। तीच्गोष्णा मधुरा गौड़ी वातन्नी वलपित्तकृत्। न्तितृप्तिकरी पथ्या वहि प्रदीपनी॥

^{*} प्रथमखण्डे २८० – ८५ पृष्ठानि द्रष्ट्यानि ।

(a) Gours.

Wine, named gouri (from gurh—molasses), is prepared mainly from dhataki flower and gurh. It is acrid, warm, sweet, pacifier of vayu, increaser of strength, pittam, and brightness of complexion. It is agreeable to taste, nutritious, and increaser of power of digestion and sexual desire.

(ख) माध्वी।

मध्वादिविहिता या तु माध्वी सा मदिरोच्यते । नात्युष्णा मधुरा माध्वी पित्तानिलनिसूदनी । कामलापाग्डुगुल्मार्शः प्रमेहभ्रीहघातिनी ॥

(b) Madhvi

It is made of honey, and other ingredients. It is not very warm—It is sweet, and destroyer of pittam, vayu, jaundice, anemia, gulma, piles, gonorrhœa, and enlargement of the spleen.

(ग) पैद्या। ा बहुविधैर्धान्येः पैष्टीति मदिरोच्यते। कफवातहृत् तीच्णा गौड़ीसमा च ॥

(c) Parstz.

It is made of paddy of various kinds. It is pungent, sour, destroyer of vayu and kapha, and acrid like gouri.

(घ) काद्म्यरी।

कादम्बरीति विख्ता नानाद्रव्यकदम्बजा । शक् कादम्बरी मधुरा च श्रमिपत्तप्रणाशिनी ॥

(d) Kadamvarı.

Kadambarı is prepared from kadamba fruits and many other materials. It is sweet and remover of fatigue and pittam

(ङ) वारुणी।

रसः रतालयोः संहितो वारुणी मतः। तदुरससंधिता सुरा वारुणी पि कथ्यते॥

(e) Varuni.

It is the fermented juice of date tree and palm tree. Liquor, prepared from other materials with the help of the said juice, is also called varum.

(च) ू ी।

मधूकपुष्पजाता या माधूकी सा निगद्यते । माधूकी मादिनी बल्या पुष्टि त् द्धिनी ॥

(f) Madhuki.

It is made of madhuka (mahua) flowers, and is intoxicating, strengthening, nutritious, and increaser of sexual desire.

कदम्ब इति कद्म्बफलं देवदालीलता वा। कदम्बार्थे
 बहुद्रयानां (पित्तनाशकानामत्र) समुदाय इत्यपि :।

(छ) मैरेयी।

मालूरमूलकं चैव बदरी शर्करा तथा। एषामेकत्र सन्धानान् मैरेयी मदिरा मता॥ मैरेयी वातहृदु बल्या ज्वरश्ची वहिदीपनी॥

(g) Marreys

It is a liquor prepared by the fermentation of vilba roots, plum fruits, and sugar. It pacifies vayu, cures fever, and increases strength and hunger.

(ज) मार्झीकम्।

मृद्वीकािमः कृतं मद्यं माद्वीकिमिति कथ्यते।
माद्वीकमिवदाहित्वान् मधुरान्वयतस्तथा॥
रक्तिपत्तेऽपि तं बुधैर्न प्रतिषिध्यते।
लघुपािक सरं तच्च विषमज्वरशोषहृत्॥

(h) Mardwika.

It is wine prepared from grapes It does not give rise to heat, acidity, and indigestion in the system It is sweet

There is no objection, therefore, to its being prescribed even in cases of hemorrhage (which is due to an excess of pittam or heat and vayu causing contraction of the nerves, arteries, etc.) It is light in digestion, laxative, and efficacious in visama jwara (Malaria, kala-zar, etc).

सुरामण्डादि।

राम : प्र ा स्यात् : कद्म्बजा घना । तद्धो जगलो ज्ञेयो मेदको जग द् :। गो क हृतसारः स्यात् सुराबीजं च वि कम्॥

Different parts of undistilled wine

The upper part of the scum of wine is called prasanna. Kadamvaja is denser than that That part of the wine which is denser than kadamvaja is called jagala. Medaka is denser than jagala. In other words, Medaka is the densest part of the wine before it is filtered or distilled. The wine from which all its essence has been taken out (by distillation) is called bakkasa, or the seed of wine, or kinvaka.

सामान्येन ं स्वभावाः।
नवमिष्यिन्दि त्रिदोषजननं सरम्।
श्रहृद्यं बृंह्णं दाहि दुर्गन्धं विशदं ग्रुरु॥
जीर्णं तदेव रोचिष्णु क्रिमिश्लेष्मानिलापहम्।
हृद्यं सुगन्धि गुण्वल् लघु स्रोतोविशोधनम्॥
विविधगुणमण्डितमपि ंपरित्यजेत्।
दोषास्तस्यातिशेरते गुणान् सर्वान् न सन्देहः॥
भेषजार्थे सुरापानं कचित् कचिद् विधीयते।
ग्रह्णदानपानेषु ऽन्यथा नैव गुज्यते॥

Properties of wine in general.

New wine causes the discharge of phlegm (through the nostrils, the eyes, etc.) It increases the three doshas and is laxative. It is harmful to the heart, nutritious, and causing inflammation in the system

It has bad smell, is clear, and heavy. Old wine is increaser of appetite; and destroyer of worms, phlegm, and vayu. It is agreeable to taste and yields a good odour. It is wholesome, light in digestion, and purifier of the internal passages.

In spite of the various merits attending wine, it is to be avoided altogether. Its demerits predominate over its merits. Wine is sometimes prescribed by way of medicine, but otherwise, it is unworthy of drinking, receiving from others, and being given to others.

(२) अमदिरं सन्धानम्।

सन्धानं मदिराहीनं व विधं उद्याद्धते । तेषां हि द्वादशं बहुविदितं धरणीतले ॥ श्रासवारिष्टसीधवः शुक्त न्या काञ्जिकम् । गुड़शुक्तं तथा चुक्रं तुषाम्बु यवनिर्मितः । सौवीरमारनालं च शिगडाकी भेषजोचितम् ॥

(2) Non-alcoholic but fermented Liquids

Fermented but non-alcoholic liquids are of various kinds. Of these, the following thirteen are well-known—(a) asava, (b) arista, (c) sidhu, (d) shukta,

(e) gura-shukta, (f) chukra, (g) tushamboo, (h) dhanyamla, (1) kanji, (j) sauvira, (k) aranala, and (l) shindaki.

All of these are used as ingredients of medicine.

(क) स्तथा (ख) अरिष्टः।

द्रवेषु चिरकालस्थं द्रव्यं यत् संहितं भवेत्। आसवारिष्टभेदौस्तत् प्रोच्यते भेषजोचितम्॥ यद्पकोषधाम्बुभ्यां सुसंहितं स आसवः। अरिष्टः हितं तयोमीनं गोन्मितम्॥

(a) Asava and (b) Arista.

Asava is a fermented liquid prepared from several drugs immersed for a sufficiently long time in water, which does not require any heating and boiling.

Arista is also a fermented liquid, prepared from several drugs, immersed, for a sufficiently long time, in decoction of prescribed drugs

The dose of both of these is one pala or four tolas (to be taken twice a day)

(The difference between arista and asava is that the former is to be fermented in a decoction of drugs prescribed differently in different cases, whereas the latter is a fermentation in cold water of drugs, prescribed differently in different cases Both asavas and aristas form a class of important medicines)

अरिष्टेषु द्रव्याणां परिमाणम् । अनुक्तमित्यरिष्टेषु द्रवाद् द्रोगां तुलागुड़म् ॥ चौद्रं चिपेद् गुड़ादुद्धं प्रचेप्यं दशमांशिकम् ॥

Proportion of materials in an Arista.

Where there is no specific mention of the quantities of the materials to be used in a certain arista, they are to be taken as follows—The quantity of the decoction (of the materials to be mentioned in each case) is one drona (16 prasthas or 16×64 tolas); that of gurh is four hundred tolas (or $6\frac{1}{2}$ prasthas), and of honey 200 tolas (or $3\frac{1}{8}$ prasthas); and that of the materials to be kept immersed is one tenth of the gurh (molasses)

(ग) सीधुः।

स्थापयेद मृद्घटे नवे किञ्चन् मि वं सुधीः।
मुखं तस्य पिधातब्यं श्राहेण् तः॥
स्थापयेदातपे तत् तु यावत् तन् नैति संहितिम्।
सार्य शरावं तु द्राहेण्येत्थतं मलं॥
सोचयेदन् रान्तरा पुनर्मुखं च रोधयेत्।
श्रानेन संहितं सम्यक् सीध्विति कथ्यते जनैः॥
सीधु हिं द्विविधो ज्ञेयः पक्षश्चापक एव च।
पक्षमिष्ठद्रवाज्ञ तः सीधुपको हि कथ्यते।
श्रापकमधुरद्रवाज् तश्च शीत एव हि॥

(c) Sidhu (a kind of vinegar)

Keep some sweet liquid in a new earthen vessel, covered with an earthen basin Place the vessel in the sun every day, till the liquid gets fermented Take out, every now and then, the dirty scum collected on the surface of the liquid, and then close the mouth of the vessel, as before When sufficiently fermented in this way, (i.e., when there will be no more scum gathered on the surface of the liquid), the liquid will be called Sidhu

Sidhu is of two kinds, viz boiled and unboiled. That which is prepared by fermenting a boiled liquid of sweet taste is called "pakva" or boiled sidhu; and that which is prepared from unboiled liquid of sweet taste is called "apakva" or unboiled sidhu

(घ) शुक्तम्। # (२य खण्डे २६ पृष्ठे पादटीका द्रष्ट्या)।

(d) Suktam* (See foot note, page 28, vol II)

(ङ) धान्याम्लम् (तुषाम्लम्)। थं षष्टिकः ान्यस्य नीरप्रस्थद्वये चिपेत । आधारभागडं संरुध्य भूमेर्गर्भे निधापयेत्॥ पचान्ते ्समुद्धृत्य वस्त्रपूतं च कारयेत्। धान्याम्लं कथितं _ तु तुषाम्लं च तदेव हि॥

भान्याम्लं शालिचुर्णाच कोद्रवादेश्च रयेत्। धान्याम्लं धान्ययोनित्वात् प्रीणनं लघु दीपनम्। अरुचौ वातरोगेषु हितमास्थापने च तत्॥

(e) Dhanyamla.

One prastha (64 tolas) of shasti paddy is to be thrown into two prasthas of water, contained in an earthen (or made of chinese clay) vessel, which is to be kept underground with its mouth closed. This is to be taken out after a fortnight, and the liquid is to be filtered. This is called dhanyamla or tushamla.

Dhanyamla may also be prepared from powders of such paddies as shall and kodrava. It is agreeable to taste, light for digestion, and increaser of hunger. It is beneficial in aversion for food, and diseases due to vayu, and commendable for the purpose of being used for douche

(व) काञ्चिकम्।
तुलामितं षष्टिकतगडुल
प्रग्रह्म चान्नं विधिवद् विधाय।
द्रोगोऽम्भिस चि थ त्
स्माहकालं पिहितं हि रचेत्॥
ततस्तु कल्कं स ं निरस्येत्
तत् ञ्जितीच्गां लघु पाचनं च।
दाहज्वरन्नं कफनाहिद्याशि
रेकी च रुच्यं तथा दीपनं हि॥

विवन्धशूलानलनाश्क्यः तत् कुल्माष क्ष योगाद्धि क्षि कार्यम्। अनन्तरोक्तविधिपूर्वकं हि लिः † प्रदेयः खलु अचभावे॥

(f) Kanjı

One tula (400 tolas) in weight of the rice of shasti paddy, duly prepared, is to be immersed in one drona (16 prasthas or 16 × 64 tolas) of water, for seven days, in a vessel closed all the while. The water is then to be filtered—It is called kanji

It is strong, light, digestive, curer of fever with inflammation, and excess of kapha and vayu, laxative, increaser of liking for food and of appetite, and curer of constipation, colic, and loss of power to digest

Kanji may also be prepared in the same way from boiled wheat or chanaka, etc

Jalı (water turned sour by boiled rice being immersed in it constantly for a few days) may be used, in lieu of kanji, where the latter is not available.

(छ) गुड़शुक्तम्।

कन्दमूळाळाळि भिः सस्नेहलवणाम्बुभिः। गुड़ं यत्राभिषूयन्ते गुड़शुक्तं तदेव हि। एवमेवेचुशुक्तं स्याद मृद्वी संभवं तथा॥

^{*} कुल्माष इति अर्द्धिका गोधूमाश्चनकाद्यः।

कालिरिति नियताश्रमज्जनजनितमम्लीभूतं जलम् । आमानीति
 भाषा ।

(g) Gura-shuktam.

It is a fermented liquid prepared from water, gurh (molasses), certain tubers, roots, fruits, oil, salt, etc

Such drinks may also be prepared from the juice of sugar-cane, as well as from the juice of grapes, substituted for gurh

(ज) चुकम्।

विनष्टः सन्धितो यस्तु तर्कमभिधीयते ॥

(h) Chukram

Wine, spoiled and grown sour, as well as swee liquid, fermented, is called chukram

(क) तुषाम्बु च (ञ) सौवीरं च। तुषाम्बु संहितं ज्ञे ैिविद् लितैयवैः। ैस्तु निस्तुषैः ैः सौवीरं संहितं भवेत्॥

(1) Tushambu and (j) Sauvira.

Tushambu is a liquid, prepared from powdere unhusked, and unboiled barley, fermented with was only, whereas sauvira is a liquid, prepared from powdered, husked, and boiled barley, fermented was water only.

दशमोऽध्यायः।

(ट) आरनालम्।

श्रारनालं तु गोधुमैरामः स्यान्निस्तुषीकृतैः। पक्वेर्वा संहितैस्तत्तु सौवीरसदृशं गुणैः॥

(k) Aranala.

It is a liquid, prepared from powdered and husked wheat, boiled or unboiled, and fermented with water only.

It has the same properties as sauvira

(ठ) शिण्डाकी।

शिगडाकी संहिता ज्ञेया मूलकैः सर्पपदिभिः॥

(1) Shindaki.

It is water fermented with mulaka (raddish), mustard seeds, etc.

एकादशोऽध्यायः ।

अथ परिभाषा ।

शुल्वनागः।

माचिकेण हतं ंदशवारं समुस्थितम्।
तद्वद् विशुद्धनागं हि द्वितयं तच्च प्मा।
नीलाञ्जनहतं भूयः सप्तवारं समुस्थितम्।
इति संशुद्धमेतद्धि शुल्वनागं प्रकीर्त्तचते॥
साधितस्तेन सूतेन्द्रो वदने विधृतो नृणाम्।
निहन्ति स त्रेण मेहब्यूहं विशेषतः॥
पथ्यस्यन्यः वर्षेण पर्वि ं बलिभिः सह।
एअद्दष्टिर्लसः पुष्टिः सर्वारोग्य न्वितः॥

CHAPTER XI.

Paribhasa (Definitions.) sulva-naga.

Copper is to be killed with makshika (pyrites) f ten times and revived each time. Pure lead is a to be similarly treated. Two palas each of these t metals are to be taken and combined. This am gam is to be killed with nilanjanam for seven tin and revived each time. The amalgam, thus purified. is called, "Sulva-naga" (Copper-lead)

Mercury consolidated with this amalgam, and kept in the mouth, cures all sorts of spermatorrheea and gonorrheea in one month only. Keeping it in the mouth for one year, with the observance of salutary diet, makes a man free from senile decay and all sorts of diseases. It improves especially eye-sight and helps all-round development of the body.

वरलोहम्।

ताम्नं तोच्णसमायुक्तं द्रुतं निचिप्य भूरिशः। सगन्धलकुचद्रावे निर्गतं वरलोहकम्॥

Vara loha

Copper, combined with an equal quantity of tikshna (steel), is to be melted and immersed, for several times, in a solution of sulphur and the sour juice of a lakucha fruit. The amalgam turns, by this process, into an excellent metal.

धोषाक्षष्टताम्रम् । स्वल्पतालयुतं कांस्यं वंकनालेन ताङ्ग्तिम् ।

मुक्तरङ्गं हि तत्त ं घोषाकृष्टमुदाहृतम्॥

Copper extracted from Bell-metal

Bell-metal, mixed with a little haritala, is to be subjected to fire blown by a blow pipe. The tin will, in this way, be burnt away, leaving only the

copper This copper is ghosa-krista (i e. extracted from bell-metal)

वरनागम्।

तीच्गां नीलाञ्जनोपेतं ध्मातं हि बहुशो दृद्म् । मृदु ऋष्गां द्रुतद्रावं वर गं तदुच्यते ॥

Bara-naga (Excellent Lead).

Tikshna iron, mixed with nilanjana (see page 202, vol II), and heated for several times, becomes soft, black, and quickly liquefiable. This is called baranaga (excellent lead).

पतङ्गिरागश्चुल्लकरागश्च ।

पतिक्वकतो * जाता लोहे तारत्वहेमता।
दिनानि कतिचित् स्थित्वा यातासौ चुह्न म ॥
रिज्ञताद्धि चिरं लोहाद ध्माताद्व चिर :।
विनिर्यासः † स निर्दिष्टः पतिक्वरागसंज्ञकः॥

Patangi-raga and chullaka-raga

The colour of gold which base metals may assum for a short time, by a mercurial preparation bein thrown into it, when melted, is called "chullaka

[#] पतङ्गिकत्क इति पतङ्गं पारदः अस्यास्तीति पतङ्गी तः : साधितद्वयम् ।

[🕆] विनिर्यास इति बहिर :।

colour, whereas the colour of a base metal, permanently transformed into gold or silver is called patangi-raga

आवापः।

द्रुते द्रव्यान्तरचेपो लोहादौ क्रियते हि यः। स पः प्रतीवापस्तदेवाच्छदनं मतम्॥

Abapa

The act of throwing som thing into a liquefied metal is called "abapa", 'pratibapa", or "achchadana"

अभिष्टेश्च निर्वापश्च।

द्रुते वहिस्थिते हहैं विरम्याष्टिनमेषकम्। सिललस्य परिचेंः सोऽभिषेक इति स्मृतः। तप्तस्याप्सु विविषो निर्वापः स्नपनं च तत्॥

shisheka and nirbapa

Abhisheke the act of sprinkling water upon liquefied me, a few seconds after it is got down from the fuace.

Nirbar or snapanam is the act of immersing hot metal im/diately from fire into water.

शुद्धावर्त्तवीजावर्ती ।

य हुताशो दीप्तार्चिः शुक्कोत्थानसमन्वितः। द्रावर्त्तस्तदा लोहः स क ः सत्त्वनिर्गमे॥

द्राव्यद्रव्यनिभा ज्वाला दृश्यते धमने यदा । द्रावस्योन्मुखता यत्र बीजावर्त्तः स लोहकः ॥ प्रतिवापादिकं कार्यं शुद्धावर्त्ते द्रते लोहे ॥

Suddhavrta and Vijavarta

Suddhavarta is the condition of a metal which is so heated by a strong the that the latter emits white flames. That is the time of essence coming out of the metal

Vijavarta is that condron of a metal, which, while heated with the object being melted, makes the fire emit flames of the color of the metal itself, which shows a heaving tendencat the time.

It is only on a melted and suihavarta metal that an ābapā is to be resorted to

स्वाङ्गशीतलं बहिःशीतलं च

वहिस्थमेव शीतं यत् तदुक्तं स्वाङ्ग-नलम् । ग्नेराकृष्य शीतं यत् तद् वहिः शीतिरितम् ॥

Swanga-shitala and Bahis-shitali

A heated substance is called swanga shit when it is cooled of itself without being removed fine the oven.

A heated substance is called bahis-shitala, a cooled after removal from the fire place.

अथ रससिद्धाः।

नन्दिराजस्तथा शुक्राचार्यश्च वसुधाग्ररुः। दिमश्चनद्रसेनश्च लङ्केशस्तस्य घातकः॥ कपाली मत्तमागडव्यो भास्करः श्ररसेनकः। रत्नकोश्थ शम्भुश्च सात्त्विको नरवाहनः॥ इन्द्रदो गोमुखश्चैव कम्वलिट्यांड्रिरेव च। ब्रह्मज्योतिर्मनिश्रेष्टः दगडी च सोमदेवकः ॥ नागार्जुनः सुरानन्दो नागवोधिर्यशोधरः। खराडः कापालिको ब्रह्मा गोविन्दो लम्बको हरिः॥ मन्थानभैरवश्चैव नित्यनाधश्च वाग्भटः। अनन्तदेवसूरिश्च भूदेवो भुवि विश्रृतः॥ लुप्तप्रायरसज्ञानोद्धारकोऽमृतपाणिकः। रसजलनिधिर्येन रच्यतेऽयं सुधानिधिः। सन्तरगाय सूरीणां वैद्यनाथप्रसादतः॥ सप्तत्रिंशदिमे सर्वे रसिख्डाः प्रकीर्तिताः ॥

Names of well-known chemists

Of the innumerable chemists, most of whom have passed into oblivion, the names of the following are still remembered —(1) king Nandi, 2) Shukra, the sage, (3) Adima, (4) Chandra sena (5) Ravana (king of Lanka), (6) king Rama-Chandra of Ajodhya (7)

Kapali (8) Matta, (9) Mandavya, (10) Bhaskara, (11) Sura-sena, (12) Ratna-kosha, (13) Shambhu, (14) Satwika, (15) Nara-bahana, (16) Indrada, (17) Gomukha, (18) Kambali, (19) Vyari, (20) Brahma-jyoti, (21) Dandi, (22) Soma deva, (23) Nagarjuna, (24) Surananda, (25) Nagabodhi, (26) Jasodhara, (27) Khanda, (28) Kapalika, (29) Brahma, (30) Govinda, (31) Lambaka, (32) Hari, (33) Manthana-Bhairava, (34) Nityanatha, (35) Bagbhata, (36) Ananta deva, and (37) Bhudeva (the author)

त्वदुदत्तद्रव्यसंभारस्तदंघाविषतो मया। त्वदिच्छाचालितस्य मे ममत्वं क महेश्वरि॥

इति सिद्धवैद्यश्रीभूदेवदेवशर्भविरचितरसजलनिधिनाम-महाप्रन्थस्य तृतीयखण्डं समाप्तम् ।

RASA JALA-NIDHI

OR

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By

Bhudeb Mookery, M.A., Rasacharya,

(Ayurvedic Physician) Of 41-A, Grey Street Calcutta

OPINIONS

(1)

Albert G Ingalls, Associate Editor, "Scientific American"—

I have to thank you for a most interesting evening devoted to the study, admittedly somewhat superficial, of volumes I and II of your work on Indian Chemistry and Alchemy. Western science has taken a somewhat different direction from this, and to me, therefore, your detailed account of the alchemical and healing arts was most fascinating

These books have been given a special place in the library of the journal, reserved for works which are eminently worthy of preservation, for the edification of future editors.

(2)

Prof M. Winternitz of the Prague University (Czecho Slovakia)

I am much obliged to you for kindly sending me

volumes I and II of your work, Rasa-jala-nidhi It is an interesting contribution to our knowledge of Hindu Chemistry, alchemy, and medicine

(3)

Prof Berthold Laufer of the Field Museum of Natural History, Chicago —

It is very kind of you to send me volumes I and II of your work on Indian Chemistry, a subject in which I have always been interested I wish to thank you cordially for giving me this opportunity. I think it will be very useful to have a complete compendium of this important subject, such as you propose. I shall look forward with great interest to the continuation of your work.

(4)

The Chemical News of London, dated the 16th September 1927.—

It is becoming apparent that there is a revival of scientific interest in Alchemy. Two new and important contributions have appeared in India, and merit attention. The first is a bound volume by Dr Bhudeb Mookerji MA, entitled Rasa-jala-nidhi or Ocean of Indian Chemistry and Alchemy, and is the first of a series to be edited by him.

Hindu Chemistry and Alchemy is a subject almost unknown and our indebtedness to the Indians' early contributions to the development of science was briefly dismissed in the Brief Outline of the History of Science (by Dr Gerald Druce). We are therefore especially grateful to Dr Bhudeb Mookers for his compilation... Details are given for the preparation of mercury for use in medicine and for transmuting itself or base metals into gold, etc. The billingual text is accompanied by a glossary and definitions and is preceded by a valuable introduction. Of both works under review it may be said that further publications will be awaited with

(5)

Chemical News of London, dated 13-1-28 -

Dr Bhudeb Mookeiji has undertaken the heavy task of compiling in about 10 volumes, a systematic and comprehensive treatise on the almost lost and little known science of Hindu Chemistry. His first volume was well received, and the second part has quickly followed it Succeeding volumes will be awaited with impatience. Dr. Bhudeb Mookeiji's second volume maintains the high standard of his first, and is a valuable contribution to alchemical literature.

(6)

Journal of the Society of Chemical Industry (London), May 18, 1928 —

Any chemist who is (a) dissatisfied with his family doctor, or (b) tried of ions, pH, enzimes and covalencies, may be recommended to read this book, where he will at least find much that is novel. We fancy that most of his recipes will be new to the Society of Chemical Industry. This and much other remarkable and unexpected knowledge came to Mi Mookerji partly from ancient books and partly from a learned yogi with whom he studied. Alchemy finds its place among the intro-chemical remedies. We look forward with ill-controlled excitement to the publication of Mr Mukerji's chemical investigations, but, in the meantime, there can be no doubt of the efficacy of his remedies.

Chemists will certainly get their money's worth if they buy this book

E J HOLMYARD.

(7)

Sır Jagadısh Chandia Bose -

Please accept my sincere thanks for a copy of R'sa-jala-nidhi which I am looking forward to reading with great interest. Of course, in Chemical Science, you should interest modern chemists in the achievement of Hindu Chemistry in the past.

(8)

Sir C H Setalvad, Vice-chancellor, Bombay University —

It is indeed very creditable to you to have carried on your researches in Indian Chemistry and publish the results in such comprehensive form. The publication is sure to attract the attention of all those who are interested in a iking available to the public the past achievement in the field of science by India I will certainly ask the syndicate of the university to give such encouragement to your work as they may think proper

(9)

Dr. H K Sen, MADSc. Professor and Head of the Department of Applied Chemistry, University College of Science and Technology, Calcutta —

I think you very much for the very attractive copy of your Rasi-Jala-nidhi, Vol I I enjoyed the reading of the whole volume—you have been able to make the treatise extremely interesting. The work indicates erudition and the requisite patience of a scholar—I am really looking forward to your subsequent volumes, which I hope will come out in rapid succession and justify the excellent promise given in the first volume

(10)

Prof Arthur B. Lamb, Director, Chemical Laboratory of Harvard College, Cambridge, U S A .—

I have examined the book with interest and thank you for it

(11)

Prof L M. Dennis, Head of the Department of Chemistry. Cornell University, U S A.—

I looked through the book with much interest

(12)

Prof. H. Nagaoka of the Institute of Physical and Chemical Research Tokyo —

You were so kind as to send me wour interesting book

"Ocean of Indian Chemistry and Alchemy," which I read with much interest. I am at present engaged with electric experiments in the same domain of research. I hope to obtain sufficiently large quantity of gold from mercury.

I have placed your book in the library or the Instite so that it will be consulted by those inferested with the subject. There is an old Chirese treatise on smaller subject. I believe that it originated from India.

(13)

"Englishman," Calcutta, May 30, 1927

The work is an ambitious undertaking and is expected to be completed in 10 volumes The book claims to be a comprehensive treatise on Indian Chemistry and olchemy, an art almost lost several centuries. It contains much interesting matter which deserves testing under nodern laboratory methods The author de-cilles several processes, by which he maintains, it is possible to make mere irswallow, without any appreciable increase in its weight much of gold and other materials. Another equally interesting topic he has dealt with is the transformation of base metals into gold. In view of the scientific attention that has been devoted to this subject, there is no reason why the formulæ, as given out in this work, should not be given a fair trial These instances, taken at random, are fair samples of the startling and important nature of the The processes have been described in detail contents and the author himself has given his agreement with them from the result of his own research. The flist instalment from the pen of this author is promising. He deserves the thanks of all orientalists and Indian chemists for rescuing a science that was in great danger of being lost altogether The work is heartily recommended to the attention of those interested in Indian Chemistry

(14)

[&]quot;Bharatvarsha" the leading Bengali magazine of Calcutta —

the work, when completed, will no doubt prove to I the actest and the most comprehensive treatise on Hind Challstry and alchemy. The anthor is an eminent at successful physician, and most probably he has been ab to earn a high reputation by prescribing the medicin described in the book under review. Physicians in generative are sure, will be profited by a study of the book

(15)

Journal of Ayurveda, Calcutta, March 1928 -

These volumes are quite welcome, compiled, as they a from various works on Rasa-vidya from the age of Ram chandra up to the present time

Preparation of mineral acids (and other chemical in dicine) was known in India, according to the author, early as the age of Ravana, and not introduced by the Portuguese as suggested by Dr. P. C. Roy

The treatment has been thorough and practical and quite legible to all

The volumes are worth reading as the author introces many a new information in them. He had to stimany ancient and new works in a scholarly way bef writing the volumes under review. As he did not begin an amateur, his work is bound to be reliable and useful.

The method of arrangement is very good—the oniging Sinskrit text has been given first, followed by Engline reading. Besides compiling, the author had to write himself portions of sanskrit texts whenever he found so thing wanting or lost, and this reflects a great credit the author's profound scholarship.

The printing, paper, binding, and get up are all tould be desired.—We recommend these volumes to lovers of Ayurveda, as the treatise may be said to lintroduced a new era in the revival of Ayurveda.

anxiously await the publication of the remaining voluments.

----<u>-</u>-

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Ву

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41/A, Grey Street, Calcutta.

OPINIONS.

(1) Hon'ble Mr. Justice Manmatha Nath Mookerji of the Calcutta High Court —

I have gone through your "Indian Civilization and its Antiquity" with pleasure, and, if I may be permitted to say, with immense profit to myself. The book embodies in a short compass much that is not known and much more that is often unnoticed. It is the product of your valuable and original research on a subject which is very close to the heart of every Indian and every lover of India, and to me it has been well worth a perusal

(2) DR. W. S URQUHART, Vice-Chancellor, Calcutta University.—

I have read part of it with great pleasure and I am looking forward to study it more thoroughly.

(3) Mahamahopadhaya DR GANGANATH JHA, Vice-Chancellor, Allahabad University —

I am sure it will be useful. It shows signs of much study, thought, and labour.

(4) Doctor Sudhindra Bose M.A. Ph. D Professor of Political science, State university, Lowa, U.S.A.

You have made a very timely contribution to the prolems of Indian civilization, which are pressing themselves pon the attention of the thoughtful scholars everywhere. Tou have shown the way the scientist should approach ne study of Indian culture. I hope your volumes will ave large circulation and make their influence felt widely.

(5) The Tribune, October 7, 1928, Lahore -

Mr. Mookerji's book seeks to establish by historical and illological research the antiquity of Indian civilisation

at a much earlier period than is conceded by most of the western scholer. Mr Mooker i himself is a great scholar; his tractise of a radia Chemistry (of which only two out of the travalument and yet out) created a great stir on the occasion of its princetion.

The ter on Phallism may very properly be sent to Mass reply to her gnorantly foolish remarks on the well-in of the Shiv-ling in India. The most interesting the ptets, as defrom the point of wew of a student of philology, the most instructive, are those that desired with Gipsies and the borrowings from Sanskrit into Fig. 4 h. They are very carefully and convincingly written.

Mr. Mookern's book should attract the attention of all those who are interested in making available to the public the pist achievements of India in the fields of art and science

(6) Indian Duly Mail, Bombay, September 30th 1928

Or at scholur, both Irdian and European have often come to the conclusion that Indian civilization is a very ancient one, but no one up till now took up the subject exclusively for a thorough and scientific study. We congratulate Dr. Bhudeb Mookerji for having thrown a flood of light on the subject through his book "Indian Civilization and its Antiquity."

Although the book is not very voluminous, yet it contains in a nutshell a good deal of new and useful information. The escays are very interesting and fully prove that Ind an civilization is a very ancient one. They give a sufficient ovidence of the research done by the arthor and a clear proof of his independence of the thought. We heartly coming the volume to our readers.

(7) The Vaitarani Cutte k, October, 1928.

This is a very valuable book of research. No mere fragmentary criticism will disjustice to the book. It is a book which ought to be read, marked, and digested.