

BUREAU OF INDIAN STANDARDS

Minutes of the 1st Meeting of the Ayurveda Sectional Committee (AYD-01)

Name of the Committee	No. of Meeting	Day	Date	Time	Venue (Hybrid Meeting)
AYD-01 Ayurveda Sectional Committee	1st	Tuesday	16 May 2023	11:00 Am	Lal C Verman Hall BIS

CHAIRPERSON: Vaidya Jayant Deopujari, Chairperson, NCISM, New Delhi

MEMBER SECRETARY: Dr Sakshi Sharma, Scientist D/Joint Director, BIS

List of Participants: **Annexure A**

ITEM 0 WELCOME AND OPENING REMARKS

0.1 Welcome address: Smt. Manju Gupta, Scientist F, Head (Ayush Department), BIS

Smt. Manju Gupta, Head, Ayush, BIS welcomed the Chairman and participating members of Ayurveda Sectional Committee (AYD 01) on behalf of BIS and thanked them for sparing their valuable time for supporting Ayush department at BIS in its pursuit of Standardization.

0.2 Introductory Remarks: Dr. Sakshi Sharma, Joint Director, BIS

Dr Sakshi Sharma, member secretary, AYD-01 informed the committee about the formation of dedicated Ayush Department in BIS and presented in brief of the overview of the standardization activities of the department. She also informed that earlier the standardization work related to Ayush subjects was carried out by three different departments in BIS and 58 standards related with Ayurveda & Yoga have been published. She also introduced the identified areas/subjects included in the future road map of Ayurveda sectional committee along with the roles and responsibilities of the committee members.

This was followed by a presentation on standardization activity of BIS by Dr Raghavendra Naik, Scientist C, BIS.

0.3 Opening Remarks: Vaidya Jayant Deopujari, Chairperson, AYD-01

Vaidya Jayant Deopujari, Chairperson, AYD-01 welcomed the members and representatives of the BIS secretariat. At the outset, the Chairman appreciated the efforts of Ministry of Ayush

towards creation of dedicated Ayush Department in BIS. He emphasized on the need for expediting the development of Indian standards in Ayush system of medicine for the benefit of Industry and other stakeholders. He appreciated the efforts of Ayush department at BIS for active involvement in Standardization work through seven sectional committees covering all the domains of Ayush system. He requested the expert members to contribute actively and effectively to the standardization process by sharing their comments in time bound manner and by providing technical inputs on the drafts as and when circulated by BIS.

The Chairman also appreciated the efforts of BIS for conducting workshop for the chairpersons of the technical committees to provide valuable information regarding the critical role that they have to play as the head of the technical committee to facilitate the successful roll out of the various initiatives encompassed with standard formulation activity.

ITEM 1 CONFIRMATION OF MINUTES OF THE LAST MEETING

The Committee noted that this item is not applicable as this is the first meeting of Ayurveda Sectional Committee (AYD 01).

ITEM 2 SCOPE AND COMPOSITION OF THE COMMITTEE

The committee noted the scope of activities and composition of the Ayurveda Sectional Committee (AYD-01) as provided in the agenda 2.

All the members introduced themselves during the meeting and the chairman welcomed every member individually.

The committee noted the organizations who have not sent their nominations and requested the member secretary to send reminder to the following organizations for seeking their nominations.

1. All India Institute of Ayurveda (AIIA)
2. Defense Research and Development Organization (DRDO)

It was recommended by the committee to nominate Dr Praveen Chaudhary, Head of the Department, Shalyatantra, Tibbia College Delhi as an expert member in individual capacity in the committee as it is in the process of developing standards for Ksharasutra. The member secretary was requested to send letter in this regard seeking his nomination.

ITEM 3 ISSUES ARISING OUT OF PREVIOUS MEETINGS

The committee noted the point.

ITEM 4 DRAFT STANDARDS/AMENDMENTS FOR FINALIZATION

4.1. The committee noted that the 30 drafts Indian Standards prepared by erstwhile FAD 26 have been sent for printing after the receipt of approval of Ayush division council.

4.2. The committee discussed the comments received on the 33 documents prepared by erstwhile FAD 26. The point wise decision on each comment is as given at **Annexure B**.

The committee recommended to process the finalized 33 documents for publication after incorporating the changes.

4.3 The Chairman of the committee also recommended to co-ordinate with PCIM & H for any revision and addition done in pharmacopeias related to the above documents.

ITEM 5 DRAFT STANDARD/ AMENDMENTS FOR APPROVAL FOR WIDE CIRCULATION

The committee noted that there are no draft standards/amendments for approval for wide circulation as this is the first meeting of Ayurveda Sectional Committee (AYD-01).

ITEM 6 DRAFTS UNDER PREPARATION

The committee noted that there are no drafts under preparation under Ayurveda Sectional Committee (AYD-01).

ITEM 7 COMMENTS ON PUBLISHED STANDARDS

The committee noted that, no comments have been received on published standards related to Ayurveda under FAD/26, Ayush Sectional Committee.

ITEM 8 NEW SUBJECTS

8.1 The committee noted the availability of the following 12 documents prepared based on the information available in pharmacopeias on the following herbs-

1. Glossary of Ayurvedic Terminology Part 6 – Standardized Terminology for Treatment.
2. Ajamoda (*Apium leptophyllum* (Pers.) f. Muell. ex Benth.) Fruit – Specifications for use in Traditional Medicine.
3. Aragvadha (*Cassia fistula* Linn.) Fruit pulp– Specifications for use in Traditional Medicine.
4. Ashvattha (*Ficus religiosa* Linn.) Bark– Specifications for use in Traditional Medicine.
5. Ativisha (*Aconitum heterophyllum* Wall. ex Royle) Root– Specifications for use in Traditional Medicine.
6. Babbula (*Acacia nilotica* (Linn.) Willd. ex Del. sp. Indica (Benth.) Brenan) Stem bark– Specifications for use in Traditional Medicine.
7. Bakuchi (*Psoralea corylifolia* Linn.) Seed – Specifications for use in Traditional Medicine
8. Chandrashura (*Lepidium sativum* Linn.) Seed – Specifications for use in Traditional Medicine
9. Dhanyaka (*Coriandrum sativum* Linn.) Fruit– Specifications for use in Traditional Medicine

10. Hingu (*Ferula foetida* Regel.) Oleo-gum resin– Specifications for use in Traditional Medicine
11. Dhataki (*Woodfordia fruticosa* (Linn.) Kurz) Flower– Specifications for use in Traditional Medicine
12. Jaṭamansi (*Nardostachys jatamansi* DC) Rhizome– Specifications for use in Traditional Medicine

8.1.1 The committee recommended to circulate these documents to all the members of the sectional committee as P draft for a duration of two weeks for their comments. The committee further suggested that the technical comments received on the documents to be placed before the committee. In case no comments are received, these P drafts would be processed for wide circulation for a duration of 2 months.

8.2 The committee noted the requirement to prepare Indian standards on the following 20 subjects.

Kanchanara (*Bauhinia variegata* Blume) Stem bark; Kankola (*Piper cubeba* Linn. f.) Fruit; Karanja (*Pongamia pinnata* (Linn.) Merr.) Seed; Ketaki (*Pandanus tectorius* Soland. Ex Parkinson) Root; Kiratatikta (*Swertia chirata* Buch-Ham.) Whole plant; Krishnajiraka (*Carum carvi* Linn.) Fruit; Kulattha (*Vigna unguiculata* (Linn.) Walp.) Seed; Kushtha (*Saussurea lappa* CB. Clarke) Root; Kutaja (*Holarrhena antidysenterica* (Roth) A. DC.) Stem bark; Lavanga (*Syzygium aromaticum* (Linn.) Merr. M. Perry.) Flower bud; Lodhra (*Symplocos racemosa* Roxb.) Stem bark; Mishreya (*Foeniculum vulgare* Mill.) Fruit; Nyagrodha (*Ficus bengalensis* Linn.) Stem bark; Pashanabheda (*Bergenia ciliata* (Haw.) Sternb.) Rhizome; Patha (*Cissampelos pareira* Linn.) Root; Puga (*Areca catechu* Linn.) Seed; Shati (*Hedychium spicatum* Ham. ex. Smith) Rhizome; Snuhi (*Euphorbia neriifolia* Linn.) Stem; Sukshmaila (*Elettaria cardamomum* (Linn.) Maton) Fruit; Shveta jiraka (*Cuminum cyminum* Linn.) Fruit.

8.2.1 Committee requested the member secretary to coordinate with PCIM & H to share the updated information related to following 20 single herbs.

8.2.2 The committee constituted a panel of experts to prepare the P drafts with following members and scope.

Panel I: Panel for single herbs

1. Dr Raghavendra Naik, Bureau of Indian Standards, New Delhi (Convener)
2. Dr Bhargav Bhide, All India Institute of Ayurveda, Goa
3. Dr Snehlata Jain, Bureau of Indian Standards, New Delhi
4. Dr Kalpesh Panara, Institute of Teaching and Research in Ayurveda, Jamnagar
5. Dr Parvathy Nair, National Ayurveda Research Institute for Panchakarma, Cheruturuthy
6. Dr Manjunath Anjnal, Rajiv Gandhi Education Society's Ayurvedic Medical College Ron, Gadag.

Scope

- a. To prepare Preliminary drafts on 20 single herbs as at **8.2** with in the period of one

months.

- b. To examine and resolve the comments received on these Preliminary Drafts on Single herbs.

8.2.3 The committee requested to circulate the P drafts to the committee members for a period of two weeks.

8.3 The committee accepted the proposals for formulation of Indian standards on the following subjects.

- a. Ksharasutra (Part 1): Specification for preparation of Ksharasutra
- b. Ksharasutra (Part 2): Product specification

8.3.1 The committee constituted a panel of experts with following members and scope.

Panel II: Panel for Ksharasutra related subjects

1. Dr Praveen Chaudhary, Tibbia College Delhi (Convener)
2. Dr Mahesh Gupta, Chaudhary Brahm Prakash Ayurved Charak Samsthan Delhi
3. Dr Prafulla S Fadnavis, Datta Meghe Ayurvedic Medical College, Wardha
4. Dr Pratap Shankar, National Ayurveda Research Institute for Panchakarma, Cheruturuthy
5. Dr Vineeta Negi, Regional Ayurveda Research Institute, Mandi

Scope

- a. To prepare preliminary drafts on Ksharasutra part 1 and Part 2 as at **8.3** with in a period of one month.
- b. To examine and resolve the comments received on these Preliminary Drafts on Ksharasutra.

8.3.2 The committee further requested the member secretary to circulate the P drafts to the committee members for the period two weeks.

ITEM 9 TECHNICAL ISSUES

The committee noted that there are no technical issues for the discussion.

ITEM 10 INTERNATIONAL ACTIVITIES

10.1 The Committee noted that BIS is in the process of submission of revised proposal for a technical committee for Ayurveda and Yoga at ISO. Publication of significant number of Indian Standards in Ayurveda & Yoga domains is poised to strengthen the said proposal.

10.2 The committee noted that BIS is an ‘O’ Member in the ISO TC 249- Traditional Chinese Medicine and recommended to explore the possibility of ‘P’ membership of the ISO TC 249 to keep abreast with the latest development in the field of traditional Medicine including new proposals.

10.3 The committee also appreciated the participation of two officers from Ayush Department in ISO Committee Managers training programme organized by BIS at NITS Noida.

ITEM 11 PROGRAMME OF WORK

This item was not applicable as it was the first meeting of Sectional Committee. However, the committee noted the programme of work of FAD 26 provided in the agenda.

ITEM 12 DATE AND PLACE OF NEXT MEETING

The committee recommended to hold the next meeting in third week of August 2023 in consultation with Chairperson AYD 01.

ITEM 13 ANY OTHER BUSINESS

13.1 The committee after discussion identified following areas for the standardization in the field of Ayurveda. The committee further requested the member Secretary to prioritize the areas in consultation with Ministry of Ayush and through surveys.

1. Pharmaceutical Instruments
2. Therapeutic Instruments
3. Metrics in Ayurveda
4. Gadgets and software related to Ayurveda.
5. Standards for metals, minerals, and animal origin ingredients of Ayurvedic formulations.
6. Process specifications for different dosage forms

13.2 The committee noted the need of the creation of standardization cell in the Manufacturers Associations for taking their inputs in the work of standardization. Committee further requested the member secretary to send the letters for seeking the nominations.

13.3 The committee appreciated the proactive ideas of disseminating Ayurveda related standardization activities in BIS through various platforms. The committee recommended to organize an interactive meeting with Industry stakeholders to take the feedback on

published standards as well as to make all the stakeholders aware about the standards related work at BIS.

The meeting ended with a vote of thanks to the Chair.

Annex A

Attendance of Meeting: AYD-01 Ayurveda Sectional Committee

Name of the Committee	Day	Date	Time	Venue	Meeting Type
AYD 01-Ayurveda Sectional Committee	Tuesday	2023-05-16	11:00	Lal C Verman Hall Manak Bhavan	Hybrid meeting

Member Secretary: Sakshi Sharma	Chairperson: Vaidya Jayant Deopujari
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S. No.	Organization	Member	Membertype	Uid	Email	Phone
1	National Commission for Indian System of Medicine (NCISM), New Delhi	Vaidya Jayant Deopujari	Chairperson	2304101238	jydeopujari@gmail.com	9422111159
2	Association of Manufacturers of Ayurvedic Medicine, Ghaziabad	Dr. Rajiva Kumar Rai	Principal Member	2304151653	amamindia@gmail.com	9811500276
3	Ayurvedic Drug Manufacturers Association, Worli	Nimish K Shroff	Principal Member	2304145312	nkshroff@hotmail.com	9820030966
4	Ayurvedic Medicine Manufacturers Organisation of India, Trichur	Dr.D.Ramanathan	Principal Member	2304100638	ammoiho@gmail.com	9846020540
5	Ayurvedic Medicine Manufacturers Organisation of India, Trichur	Dr.P.Ramakumar	AlternateMember	2304101029	drramkumar@aryavaidyasala.com	9446405702
6	Ayurvedic Medicine Manufacturers Organisation of India, Trichur	Dr.Arya Sethuparvathy	Young Professional	2304101529	dr.aryasethuparvathy@gmail.com	8848027707
7	CSIR - Institute of Genomics and Integrative Biology, NewDelhi	Dr. Bhavana Parasher	PrincipalMember	2011205773	bhavana.p@igib.res.in	9833107338
8	Central Council for Research inAyurvedic Sciences, New Delhi	Dr. PratapMakhija	PrincipalMember	2304165632	pratapmakhija.ccras@gmail.com	9990317836

9	Central Council for Research in Ayurvedic Sciences, New Delhi	Dr. Anagha Ranade	Alternate Member	2304101034	anagharanade11@gmail.com	9624467076
10	Central Drugs Standard Control Organization, New Delhi	Sh. Sushanta Sarkar	Alternate Member	2304161307	sushanta@cdsco.nic.in	8108523891
11	Himalaya Wellness Company, Bengaluru	Dr. Ashok B K	Principal Member	2303443917	dr.ashok@himalayawellness.com	9035117253
12	Himalaya Wellness Company, Bengaluru	Dr. Vijendra Prakash	Alternate Member	2304155314	dr.vijendra@himalayawellness.com	9900204321
13	Indian Medicines Pharmaceutical Corporation Limited (I.M.P.C.L), Uttarakhand	Dr. Balaji Panigrahi	Young Professional	2304144616	drbalaji@impcl.in	9937091933
14	Indian Medicines Pharmaceutical Corporation Limited (I.M.P.C.L), Uttarakhand	Dr. Rahul Kumar	Principal Member	2207345980	rahulkumar@impcl.in	9110805995
15	Institute of Teaching and Research in Ayurveda, Jamnagar	Dr. Rahul S. Gandhi	Principal Member	2304105213	dr.rsg@itra.edu.in	9427451634
16	Institute of Teaching and Research in Ayurveda, Jamnagar	Dr. Swapnil Yashwant Chaudhari	Young Professional	2304105825	swapnilyc@itra.edu.in	8200454116
17	KLE Academy of Higher Education & Research, KLE Shri B.M. Kankanawadi Ayurved Mahavidyalaya, Belagavi	Dr. Vedantam Giridhar	Alternate Member	2304111312	drgiridharay@gmail.com	9731028625
18	KLE Academy of Higher Education & Research, KLE Shri B.M. Kankanawadi Ayurved Mahavidyalaya, Belagavi	Dr. Swardha Ravindra Uppin	Young Professional	2304111922	uppinswarda@gmail.com	9972271893
19	Ministry of Health & Family Welfare, Central Government Health Scheme Ayush, New Delhi	Dr. Anand T. Gudivada	Principal Member	2304110841	anand.gudivada@cghs.nic.in	9310464926
20	Ministry of Health & Family Welfare, Central Government Health Scheme Ayush, New Delhi	Dr. Debashish Panda	Alternate Member	2304111044	debashish.panda@cghs.nic.in	9654220998
21	Ministry of Health & Family Welfare, Central Government Health Scheme Ayush, New Delhi	Dr. Preeti Sahu	Young Professional	2304111400	preeti.sahu@cghs.nic.in	9636922840
22	National Commission for Indian System of Medicine (NCISM), New Delhi	Dr. B.S. Prasad	Principal Member	2304142211	president.boa@ncismindia.org	9448569289

23	National Institute of Ayurveda, Jaipur	Dr. Vishvanath	PrincipalMember	2304155728	coolvish.17@gmail.com	9462603239
24	National Institute of Ayurveda, Jaipur	Dr. Rakesh Singh Thakur	AlternateMember	2304161437	rakeshayu1984@gmail.com	9827166759
25	National Institute of Ayurveda, Jaipur	Dr. Vaishali Laxman Khatle	Young Professional	2304161906	vaishukhatale@gmail.com	9975090790
26	National Medicinal Plants Board, New Delhi	Dr. Chinmay Rath	AlternateMember	2304100034	chinmay.rath@gov.in	9871864851
27	Pharmacopoeia Commission for Indian Medicine & Homoeopathy, Ghaziabad	Dr Jayanthy A	PrincipalMember	2212201607	psophg-pcimh@gov.in	9958540988
28	Pharmacopoeia Commission for Indian Medicine & Homoeopathy, Ghaziabad	Dr. Nitin Rai	AlternateMember	2304163621	nitin.ra@nic.in	8882581016
29	Pharmacopoeia Commission for Indian Medicine & Homoeopathy, Ghaziabad	Nilima Singh	Young Professional	2304164938	nilima.singh88@gov.in	8383052231
30	Spices Board India, Kochi	Dr. Dinesh Bisht	AlternateMember	2304102554	dinesh.bisht899@nic.in	9953705642
31	BIS Directorate General	Smt. Manju Gupta	Head Ayush Department BIS		headayushbis@gmail.com	9810434094
32	BIS Directorate General	Dr. Raghavendra Naik	Ayush Department BIS		ayuraghu@gmail.com	8105683022
33	BIS Directorate General	Dr. Sneh Lata Jain	Ayush Department BIS		drmadanlata@gmail.com	9871804484
34	BIS Directorate General	Dr. Kumar Vivekanand	Ayush Department BIS		drkumar111@gmail.com	9718225785
35	BIS Directorate General	Dr. Mahe Alam	Ayush Department BIS		mahealamccrum619@gmail.com	9818555917
36	BIS Directorate General	Dr. Kiruthiga G	Ayush Department BIS		keerthibsms@gmail.com	9841562400

Annexure B

Observations on 33 Draft Indian standards in wide circulation by FAD 26 - BIS

I. Observations common to all Draft standards:

Sl. No	Comments	Observations of BIS Secretariat	Decision of the Committee
1.	The Parts and Volumes of ASU&H Pharmacopeial publications may be denoted by Roman numerical instead of Arabic as per current practice.	The comment may be accepted and Necessary corrections will be done in the documents.	Committee agreed.
2.	Instead of mentioning as "Ministry of Ayush", it may be mentioned as "then Dept. of AYUSH, Ministry of Health & Family Welfare, Government of India", wherever any ASU&H Pharmacopeial publication prior to 2014 is referred.	The comment is not acceptable for the current document as at present neither Department of Ayush exists nor it is under Ministry of Health & Family Welfare, Government of India" so far. Committee may take the final decision.	Committee did not agree with the comment.
3.	Uniformity of language, scientific symbols, presentation etc, may be followed across the standards.	The comment is accepted and necessary correction will be done in the document.	Committee agreed.
4.	In the "Classification Details" specified in the "Details" Tab against each Draft, the "Sub Sub Group" may be mentioned as "Traditional Medicine" so as to be synchronous to the respective Standards documents.	As the option "Traditional Medicine" is not available under "Sub Sub Group" relevant category (Ayurveda) among available option is selected.	Committee agreed with the decision to opt the presently available sub sub group Ayurveda in the portal.
5.	No particular specific information has been given wrt Ayurveda, in the above mentioned 33 draft standards.	As the standard specifies requirements for all traditional medicine systems, any specific information related to Ayurveda is not included in the document.	Committee agreed no changes required.
6.	The Reference of cited Pharmacopeial publications of ASU&H system of medicine, wherever applicable, may be cited by as per the actual nomenclature/details in the referred publications e.g. roman numerical instead of Arabic as per current practice adopted by PCIM&H and also cited reference of ASU&H Pharmacopeial publication prior to 2014 instead of mentioning as published by "Ministry of Ayush", it may be mentioned as published by "then Dept. of AYUSH, Ministry of Health & Family Welfare, Government of India".	Same as Serial no 1 and 2	Committee agreed with the observation placed on serial no. 1 & 2.

7.	Views of domain experts from respective fields may be sought for other technical aspects covered in the Draft standards.	The document is finalized by Ayush sectional committee (FAD 26) and the panel for herbs and related subjects under the committee. Both the sectional committee and panel includes experts from all the relevant fields. Further, the document was under wide circulation for one month during which there was an option for providing inputs through BIS portal.	Committee agreed with the observation
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II. Observations specific to individual standards: (Ayurveda)

Sl. No.	Document Title	Context	Existing content	Remark	Observations of BIS Secretariat	Decision of the Committee
1.	FAD 26 (21316) Gambhari	Entire document		The reference to "Part used" may be made uniform throughout the document including Hindi and English titles. (Currently it is छाल in Hindi title; root and root bark in Scope and Pharmacognosy while only Root bark in rest of the places).	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept this comment.
2.	FAD 26 (21317) Kanyasara	Entire document		The term "Kanyasara Leaf/Leaves" mentioned anywhere (including title) should be revised as "Kanyasara" omitting the term Leaf/Leaves.	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept this comment.
3.	FAD 26 (21319) Karkatashringi	Hindi title	कर्कटश्रिंगी	It should be spelt as कर्कटशृंगी	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept this comment.
4.	Bhallataka FAD 26 (21324) and FAD 26 (21358)	Classification Details	Sub Sub Group: Ayurveda	As per Schedule E(1) of the Drugs and Cosmetics Rules, 1945, this material is included under "List of poisonous	The Category will be revised as medium, among the available option (High, medium, low, none) in the BIS	Committee agreed to accept this comment and change the category from low to medium risk.

Sl. No.	Document Title	Context	Existing content	Remark	Observations of BIS Secretariat	Decision of the Committee
	Vijaya		Risk: Low	substances under the Ayurvedic (including Siddha) and Unani Systems of Medicine” .	portal.	
5.	FAD 26 (21335) Jambu	Synonyms in Foreword	Jambu is having synonyms like Mahajambu and Ksudrajambu.	Mahajambu and Ksudrajambu could be varieties (Maha: large, Kshudra: small) instead of synonyms.	The comment is accepted and both names will be deleted from the list of synonyms.	Committee agreed to accept this comment.
6.	Bhallataka FAD 26 (21324)	Classification Details	Sub Sub Group: Ayurveda Risk: Low	As per the Schedule E (1) of D&C Act, 1940, applicable for ASU medicine, the drug has been Listed under poisonous substances for Ayurveda and Siddha systems of Medicine	The Category will be revised as medium, among the available option (High, medium, low, none) in the BIS portal.	Committee agreed to accept this comment and change the category from low to medium risk.

III Comments on BIS standards (Pharmacognosy aspect)

S.No	Name of standard	Comments (The nomenclature of botanical name of all drugs are based on World Flora Online (WFO) Plant List i.e. www.worldfloraonline.org)	Observations of BIS Secretariat	Decision of the Committee
1	Ashoka (Saraca asoca (Rose.) De. Willd) S	A. <i>Saraca asoca</i> (Rose.) De. Willd, to be changed as <i>Saraca asoca</i> (Roxb.) Willd. in all places wherever it is mentioned.	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept this comment.
		B. Syn. <i>Saraca indica</i> Linn. to be changed as <i>Saraca indica</i> L.		
		C. Powder microscopy also to be added	The comment is not acceptable as the information/images related to powder microscopy of the plant is not available in any Pharmacopeial publications. Any addition in the pharmacopeia will be included in subsequent revisions of this Indian standard.	Committee did not agree to accept this comment presently.

2	Atasi (<i>Linum usitatissimum</i> Linn.) Seed	A. <i>Linum usitatissimum</i> Linn to be changed as <i>Linum usitatissimum</i> L.	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept this comment.
		B. Powder microscopy also to be added	Same as 1.C above	Same as 1.C above
3	Chitraka (<i>Plumbago zeylanica</i> Linn.) Root	A. <i>Plumbago zeylanica</i> Linn. To be changed as <i>Plumbago zeylanica</i> L.	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept this comment.
		B. Powder microscopy to be added	Same as 1.C above	Same as 1.C above
4	Eranda (<i>Ricinus communis</i> Linn.) Root	A. <i>Ricinus communis</i> Linn. To be changed as <i>Ricinus communis</i> L.	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept this comment.
		B. Powder microscopy to be added	Same as 1.C above	Same as 1.C above
5	Gambhari (<i>Gmelina arborea</i> Roxb.) Root bark	A. Under Scope Roxb to be written as Roxb. Mature root and root bark of <i>Gmelina arborea</i> Roxb to be written as root bark of of <i>Gmelina arborea</i> Roxb. Since the standard is on Root bark as per the part used mentioned in main title.	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept this comment.
		B. Powder microscopy to be added	Same as 1.C above	Same as 1.C above
6	Kanyasara (<i>Aloe barbadensis</i> Mill.) Leaf	A. Under the main title Botanical name to be updated and the instead of leaf the it should be Dried leaf pulp Kanyasara (<i>Aloe vera</i> (L.) Burm.f.) Dried leaf pulp	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept the comment.
		B. Under Scope <i>Aloe Barbadensis</i> Mill. Syn. <i>Aloe vera</i> Tourn. ex Linn; <i>Aloe indica</i> Royle to be changed as <i>Aloe vera</i> (L.) Burm.f. Syn. <i>Aloe barbadensis</i> Mill., <i>Aloe indica</i> Royle		
		C. Under 3.1. Description 3.1.1 Macroscopic Examination of Kanyasara Leaf to be changed as dried leaf pulp 3.1.1 Macroscopic Examination of Kanyasara since these are the characters of Kanyasara itself not the leaf 3.1.2 Microscopic Examination of Kanyasara Leaf also to be changed as 3.1.2 Microscopic Examination of Kanyasara	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept the comment.
		D. Powder microscopy to be added	Same as 1.C above	Same as 1.C above
7	Karkatashringi	A. Under the title scope:	The comment is accepted and necessary	Committee agreed to accept the

	(<i>Pistacia chinensis</i> Burgo.) Gall	<ul style="list-style-type: none"> • <i>Pistacia chinensia</i> Burgo, to be changed as <i>Pistacia chinensis</i> Bunge • <i>Rhus succedanea</i> Linn – as per World Flora Online this is not the synonym of <i>Pistacia chinensis</i> Bunge 	correction will be done in the document.	comment.
		B. Since powder characters are incorporated here in other documents also the powder characters to be added in concerned standards/monographs.	Same as 1.C above	Same as 1.C above
8	Saptaparna (<i>Alstonia scholaris</i> (Linn.) R. Br.) Stem bark	<p>A. Under the main title Author citation of the botanical name to be updated one</p> <p>B. Under the title scope: <i>Alstonia scholaris</i> (Linn.) R. Br. to be changed as <i>Alstonia scholaris</i> (L.) R. Br.</p>	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept the comment.
9	Agnimantha (<i>Clerodendrum phlomidis</i> L.f.) Root	Fig. 1 should be written as POWDER CHARACTERS OF AGNIMANTHA (<i>Clerodendrum phlomidis</i> L.f.) ROOT	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept the comment.
10	Atibala (<i>Abutilon indicum</i> (L.) Sweet.) Root	Under main title and scope along with the author citation Sweet full stope is not needed <i>Abutilon indicum</i> (L.) Sweet Fig. 1 should be written as POWDER CHARACTERS (<i>Abutilon indicum</i> (L.) Sweet) ROOT	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept the comment.
11	Bhallataka (<i>Semecarpus anacardium</i> Linn.) Fruit	<p>A. Under the main title and Scope Author citation to be written as L.</p> <p>B. Figure of Powder characters may be added for uniformity</p>	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept the comment.
			Same as 1.C above	Same as 1.C above
12	Brihati (<i>Solanum anguivi</i> Lam.) Root	<i>Solanum indicum</i> subsp. <i>mesodolichum</i> Bitter and <i>Solanum indicum</i> subsp. <i>clinocarpum</i> Bitter are the synonyms of <i>Solanum anguivi</i> Lam.	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept the comment.
13	Figure of Powder characters are to be added	Figure of Powder characters may be added for uniformity	Same as 1.C above	Same as 1.C above

14	Devadaru (<i>Cedrus deodara</i> (Roxb.) Loud.) Heartwood	A. Under main title and Scope Author citation of the botanical name to be changed as <i>Cedrus deodara</i> (Roxb. ex D.Don) G.Don	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept the comment.
		B. Figure of Powder characters may be added for uniformity	Same as 1.C above	Same as 1.C above
15	Durva (<i>Cynodon dactylon</i> (L.) Pers.) Root	In the figure IB is not sclerenchyma	The comment is accepted and necessary correction will be done as per the inputs received from PCIM & H.	Committee agreed to accept this comment.
16	Jambu (<i>Syzygium cuminii</i> (Linn.) Skeels) Seed	A. Under Main title and Scope , the spelling and author citation to be changed as: <i>Syzygium cumini</i> (L.) Skeels Synonym <i>E. cuminii</i> Druce to be changed as <i>E. cumini</i> (L.) Druce	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept the comment.
		B. Figure of Powder characters may be added for uniformity	Same as 1.C above	Same as 1.C above
17	Karchura (<i>Curcuma zedoaria</i> (Christm.) Rosc.) Rhizome	Under Scope <i>Curcuma zedoaria</i> (Christm.) Rosc. (full stope to be added)	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept the comment.
18	Khadira (<i>Acacia catechu</i> (Linn. f.) Willd.) Heartwood	A. Under Main title and Scope author citation to be changed as: <i>Acacia catechu</i> (L.f.) Willd.	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept the comment.
		B. Figure of Powder characters may be added for uniformity	Same as 1.C above	Same as 1.C above
21	Kushmanda (<i>Benincasa hispida</i> (Thunb.) Cogn.) Fruit	Under Main title and Scope author citation to be changed as: <i>Benincasa hispida</i> Cogn.	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept the comment.
22	Musta (<i>Cyperus rotundus</i> L.) Rhizome	Under Scope author citation to be changed with adding full stop: <i>Cyperus rotundus</i> L.	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept the comment.
26	Rasna (<i>Pluchea lanceolata</i> Oliver & Hiern.) Leaf	Figure of Powder characters may be added for uniformity	Same as 1.C above	Same as 1.C above

27	Shyonaka (<i>Oroxylum indicum</i> Vent.) Root	Figure of Powder characters may be added for uniformity	Same as 1.C above	Same as 1.C above
29	Talamuli (<i>Curculigo orchioides</i> Gaertn.) Rhizome	Under Scope author citation to be changed with adding full stop as below: <i>Curculigo orchioides</i> Gaertn. In Figure of Powder characters 1F is Fragment of spiral and scalariform vessels and 1G Acicular crystals	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept the comment.
30	Trivrit (<i>Operculina turpethum</i> (L.) Silva Manso) Root	In Figure of Powder characters 1D is sclereids of various shapes and 1G is medullary ray cells with associated fibers and parenchyma	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept the comment.
31	Vacha (<i>Acorus calamus</i> L.) Rhizome f	Under Scope author citation of the synonym to be changed with adding full stop as below syn. <i>A. aromaticus</i> Gilib.	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept the comment.
32	Vidanga (<i>Embelia ribes</i> Burm. F.) Fruit	A. Under Main title and Scope author citation to be changed as below: <i>Embelia ribes</i> Burm. f.	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept the comment.
		B. Figure of Powder characters may be added for uniformity	Same as 1.C above	Same as 1.C above
33	Vijaya (<i>Cannabis sativa</i> Linn.) Leaf	Under Main title and Scope author citation to be changed as below: <i>Cannabis sativa</i> L.	The comment is accepted and necessary correction will be done in the document.	Committee agreed to accept the comment.

IV Comments on Chemistry aspect

S.No.	Name of plant (Part)	Parameter	BIS proposed standards	Mentioned in API	Comments	Observations of BIS Secretariat	Decision of the Committee
1.	Agnimantha (Clerodendrum phlomidis L. f) Root API Vol III	Total ash, percent by mass, Max	2.0	6.0	Both are different values	All the values proposed in the BIS standard are taken from the harmonized monograph received from PCIM & H through Ministry of Ayush.	Committee agreed with the observation and no change required in WC document.
		Acid insoluble ash, percent by mass, Max	0.5	1.0	Both are different values		
		Alcohol (90 percent) soluble Extractive, percent by mass, Min	5.0	2.0	Both are different values		
		Water soluble Extractive, percent by mass, Min	8.0	5.0	Both are different values		
2.	Atibala (<i>Abutilon indicum</i> (L.) Sweet) Root API Vol. I	Total ash, percent by mass, Max	3.5	8.0	Both are different values	Same as Point No 1 above	Committee agreed with the observation.
		Acid insoluble ash, percent by mass, Max	1.0	3.0	Both are different values		
		under A-3.3 Estimation a line "solution, prepared with the botanical reference standard (BRS) of the <i>Abutilon indicum</i> under" may be replaced with "solution, prepared with the botanical reference standard (BRS) of the <i>Abutilon indicum</i> root under"				The comment is accepted and necessary correction will be done in the document.	
3.	Brihati (<i>Solanum anguivi</i> Lam) Whole Plant API Vol. VI	Thin Layer Chromatography	TLC Not present	TLC Present	TLC not found in Bis monograph	In the BIS standards, only the information related to HPTLC Profile and marker analysis available in latest volumes of (Vol VIII and IX) pharmacopeias has been provided. As the complete information is not available for Brihati (<i>Solanum anguivi</i> Lam) Whole Plant, it is not included. Any new information included in the pharmacopeia will be included in subsequent revisions of this Indian standard.	Committee agreed with the observation.
		Uniformity in TLC images, presentations, symbols may be followed across all the monographs.					

4.	Devadaru (Cedrus deodara (Roxb.) Loud) Heartwood API Vol. IV	Foreign matter, percent by mass, Max	2.0	1.0	Both are different values	As the document specifies requirements of the herb for its use in traditional medicine, limits prescribed in the documents are derived by harmonizing pharmacopeias related to Ayurveda, Siddha and Unani systems of Medicine. The proposed value is from Unani pharmacopeia of India.	Committee agreed with the observation.
		Water soluble Extractive, percent by mass, Min	1.0	1.5	Both are different values		
5.	Jambu (Syzygium cuminii (Linn.) Skeels) Seed API Vol. II	Foreign matter, percent by mass, Max	2.0	1.0	Both are different values	Same as 4 above	Committee agreed with the observation.
6.	Kokilaksha (Hygrophila auriculata (Schum.) Heine) Seed API Vol. II	Total ash, percent by mass, Max	5.0	15.0	Both are different values	Same as 1 above	Committee agreed with the observation.
		Acid insoluble ash, percent by mass, Max	0.25	8.0	Both are different values		
		Alcohol (90 percent) soluble Extractive, percent by mass, Min	3.0	10.0	Both are different values		
7.	Kushmanda (Benincasa hispida (Thunb.) Cogn) Fruit API Vol. IV	Total ash, percent by mass, Max	11	12.0	Both are different values	Same as 1 above	Committee agreed with the observation.
		Acid insoluble ash, percent by mass, Max	2.5	1.0	Both are different values		
8.	Pattura (Aerva lanata (L.) Juss) Whole Plant API Vol. V	Total ash, percent by mass, Max	9.0	17.0	Both are different values	Same as 1 above	Committee agreed with the observation.
9.	Priyala (Buchanania cochinchinensis (Lour.) M.R. Almeida) Seed API Vol. II	Total ash, percent by mass, Max	3.0	4.0	Both are different values	Same as 1 above	Committee agreed with the observation.
		Alcohol (90 percent) soluble Extractive, percent by mass, Min	9.0	10.0	Both are different values		
		Water soluble Extractive, percent by mass, Min	10.0	7.0	Both are different values		
10.	Sphitakitari (Dryopteris	Fixed oil, percent by	5.0	3.0	Both are	Same as 1 above	Committee agreed

	filix-mas (L.) Schott) Rhizome API Vol. VI	mass, Min			different values		with the observation.
11.	Talamuli (Curculigo orchioides Gaertn) Rhizome API Vol. IV	Acid insoluble ash, percent by mass, Max	3.0	2.0	Both are different values	Same as 1 above	Committee agreed with the observation.