

Botanical Survey and Herbarium Collections


In July 2011 and May 2012, two exhaustive field works were carried out by FRLHT – SMPB team, Local resource persons, botanists, healers, collectors. We collected 240 plant specimens from selected vegetation types, altitude zone. Additionally selected authentic raw drug markets and market samples were collected. We also visited herbal Garden at Kyongnosla in East District, Herbal Garden Kalep in Lachen, North District, Saramsa garden/ Ipeca garden, G. B. Pant Institute of Himalayan Environment and Development, Botanical survey of India, Gangtok and Sikkim State Council of Science & Technology, Gangtok and few other places.



Processing of herbarium and raw drug specimen and authentication:

- The specimens collected from field were subjected to rigorous International herbarium processing procedures at FRLH Herbarium, Bangalore.
- Voucher specimen sheets prepared are now being subjected to authentication at various levels viz confirmed identity of common plant species/ rare species subject to availability of flora and publications, inadequate plant materials

Processing of herbarium specimen



1. Semi processed specimen comes to FRLH Herbarium, FRLHT Bangalore
2. Further treated and pressed.
3. Stitched on standard sheets
4. Confirmation of identity
5. Authentication
6. Labels pasted
7. Herbarium voucher specimen is ready!
8. Scanned for virtual herbarium.
9. Shared online.

HERBARIUM VOUCHER			
Accession No.	1234	Date	12/12/2013
Collector	Dr. S. K. Saha	Site	Bangalore
Plant Name	Albizia lebbek	Family	Mimosaceae
Specimen No.	1234/2013	Collector	Dr. S. K. Saha
Site	Bangalore	Date	12/12/2013
Collector	Dr. S. K. Saha	Site	Bangalore
Plant Name	Albizia lebbek	Family	Mimosaceae
Specimen No.	1234/2013	Collector	Dr. S. K. Saha
Site	Bangalore	Date	12/12/2013
Collector	Dr. S. K. Saha	Site	Bangalore
Plant Name	Albizia lebbek	Family	Mimosaceae
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Collector	Dr. S. K. Saha	Site	Bangalore

requiring further collection. Botanical survey of India, Sikkim circle and Central National Herbarium, Howrah and expert botanist have been consulted to get opinion on interesting plant materials.

The following table 1 shows list of herbarium specimen collected during the surveys.

Recorded as Medicinal plants as per the database	Not yet known as medicinal due to inadequate data
1. <i>Aconitum lethale</i>	1. <i>Allium prattii</i>
2. <i>Aconitum palmatum</i>	2. <i>Arisaema utile</i>
3. <i>Aeschynanthus hookeri</i>	3. <i>Berberis angulosa</i>
4. <i>Allium wallichii</i>	4. <i>Cardamine macrophylla</i>
5. <i>Arisaema jacquemontii</i>	5. <i>Chasallia opioxyloides</i>
6. <i>Begonia palmata</i>	6. <i>Cyananthus lobatus</i>
7. <i>Bergenia pacumbis</i>	7. <i>Galium asperifolium</i>
8. <i>Bergenia purpuranscens</i>	8. <i>Helichrysum luteoalbum</i>
9. <i>Coriaria nepalensis</i>	9. <i>Heracleum hirsutum</i>
10. <i>Dichroa febrifuga</i>	10. <i>Huperzia hamiltonii</i>
11. <i>Ephedra gerardiana</i>	11. <i>Juncus concinnus</i>
12. <i>Eurya acuminata</i>	12. <i>Juniperus polycarpus</i>
13. <i>Fagopyrum esculentum</i>	13. <i>Ligularia fischeri</i>
14. <i>Fragaria nubicola</i>	14. <i>Ligularia japonica</i>
15. <i>Gonostegia hirta</i>	15. <i>Lobelia dodiana</i>
16. <i>Hedychium ellipticum</i>	16. <i>Morina nepalensis</i>
17. <i>Holboellia latifolia</i>	17. <i>Neohymenopogon parasiticus</i>
18. <i>Houttuynia cordata</i>	18. <i>Onosma paniculatum</i>
19. <i>Ligularia amplexicaulis</i>	19. <i>Padus napaulensis</i>
20. <i>Lobelia nummularia</i>	20. <i>Polygonatum punctatum</i>
21. <i>Lycopodium clavatum</i>	21. <i>Potentilla fruticosa</i> var. <i>arbuscula</i>
22. <i>Maesa indica</i>	22. <i>Primula pitiiolaris</i>
23. <i>Mesua ferrea</i>	23. <i>Rhodiola himalensis</i>
24. <i>Neillia thyrsiflora</i>	24. <i>Saussurea eriostemon</i>
25. <i>Osbeckia nepalensis</i>	25. <i>Saxifraga pallida</i>
26. <i>Panax pseudo-ginseng</i>	26. <i>Schizopepon waddii</i>
27. <i>Paris polyphylla</i>	27. <i>Silene caespitella</i>
28. <i>Pedicularis siphonantha</i>	28. <i>Smilacina oleracea</i>
29. <i>Phyllanthus urinaria</i>	29. <i>Tanacetum atkinsonii</i>
30. <i>Picrorhiza kurroa</i>	30. <i>Tetrastigma serrulatum</i>
31. <i>Pilea umbrosa</i>	31. <i>Viburnum farreri</i>
32. <i>Rhododendron campanulatum</i>	
33. <i>Rhododendron campanulatum</i> ssp. <i>aeruginosum</i>	
34. <i>Saussurea laneana</i>	
35. <i>Sinopodophyllum hexandrum</i>	
36. <i>Spiraea bella</i>	
37. <i>Stephania japonica</i>	
38. <i>Swertia ciliata</i>	
39. <i>Zanthoxylum armatum</i>	

Scanning is in progress. Selected sheets from this category has been uploaded in the Inventory CD.

This list will expand subject to confirmation of voucher specimens by expert botanist.

Processing of Plant images and identification:

Various images of plants, locations, people met were photographed. Plant images were carefully subjected for identification and included in the CDROM. Expert botanists were consulted for additional photographs. These photographs have been uploaded in the project.



Botanical team who participated in the field survey:

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Mr. Norzang Lachenpa, Range Officer, NTFP North, North District
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Botanical team who contributed in herbarium voucher specimen Authentication:

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Processing of Herbarium and Raw drug specimen at FRLH Herbarium, FRLHT, Bangalore

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Photographs by:**FRLHT Image Library**

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- **Dr. Sumathi R**, Raw Drug Repository Curator, FRLH Herbarium
- **Mr. Mani and Mr. Raju**, who drove us safe all through the journey

For more information:**Inventory of Medicinal and Aromatic Plants of Sikkim, 2013:**

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