

THE RIGHT TO INFORMATION ACT 2005



**NATIONAL RESEARCH INSTITUTE OF BASIC AYURVEDIC SCIENCES,
NEHRU GARDEN, KOTHRUD, PUNE – 411038**

Landmark: Near Gandhi Bhavan, Behind Cummins Factory,

Telephone – 020-25383138, Tele fax – 020-25386715,

Email : rriay@vsnl.net Website: www.rria.nic.in

(CENTRAL COUNCIL FOR RESEARCH IN AYURVEDIC SCIENCES)

Department of AYUSH,
Ministry of Health & Family Welfare,
Government of India,
New Delhi.

- 1. OUR MISSION & VISION-** To conduct research at the interface of Ayurveda and Life Sciences and to translate developed concepts to commercially viable health care technologies
- 2. OUR COMMITMENTS-** Improvement of plantation Techniques for Medicinal Plants. Micro propagation and somatic embryogenesis of the medicinal plants. To assess plant & human metabolites & proteomics. Tissue culture studies on rare and endangered taxa, used in Ayurveda. Ex-situ conservation of endemic and economically important plants. Resource generation from sale of tissue cultured medicinal plants.
- 3. OUR AIMS & OBJECTIVE-**
- (i) To conserve rare, endangered and vulnerable Medicinal Plants
 - (ii) To conserve medicinal taxa through in-vitro tissue culture techniques.
 - (iii) Literary research: Compilation and publication of the book "Database on Medicinal Plants used in Ayurveda".
 - (iv) To co-relate the psychosomatic constitution (prakriti) of individuals with proteome.
 - (v) To standardize pharmacognostic profiles of important medicinal plants.
- 4. OUR ACTIVITIES AND ACHIEVEMENTS-**

PHARMACOGNOSY

Pharmacognostic studies of 99 drugs have been carried out since inception upto 2004-2005, according to the scheduled proforma of CCRAS for the assigned drugs with regards to their origin, source, botanical identification and nomenclature. Sanskrit/Hindi synonyms, regional/vernacular names, Ayurvedic uses of drug, properties, action and clinical uses in Ayurveda and Siddha, parts used and studied, present status of drug, review of previous work, macroscopic characters, microscopic characters of the parts studied, distribution, collection, propagation, quantitative value, cell content, powder drug study, behavior of powder with different reagents, phytochemical studies, diagnostic characters, substitutes and adulterants, chemistry/pharmacology reported in the literature (review), commercial material samples and their sources etc.

The important drugs studied include *Asparagus racemosus* Willd.(Shatavari) , Putikaranja, *Nyctanthes arbor tristis* L (Parijata), Durva, Arka, *Aloe barbadensis* Mill (Kumari), *Holarrhena antidysenterica* Wall. (Kutaja), Ajakarna, Shigru, Akroda, Agastha, Adhaki, *Clitoria ternatea* L. (Aparajita), *Typha australis* Schum. & Thonn. (Gundra), *Adhatoda zeylanica* Medic (Vasa), *Pongamia pinnata* (L.) Pierre.(Karanja), *Caesalpinia bonduc* (L.) Roxb.(Latakasturika), Kadamba, Shankhapushpi, *Punica granatum* L. (Dadima), *Ficus hispida* L. (Kakoudumbara), Bimbi, Sakotaka, Ajagandha, Dugdika, Saptala, Jalapippali, Bhumyamalki, Mudagaparni, Madhavi, Lakoocha, Draksha, Bala, Atibala, Swarnaksiri, Medasaka, Rajadani, Amra, Champaka, etc. Out of these detailed monographs on Pharmacognosy of Shatavari, Punarnava, Lajjalu, Musta, Jalapippli, Bharangi - *Clerodendrum serratum* (Linn) Moon , Bhumyamalaki etc. were compiled.

Data on some of these drug's studies have been published, viz. *Dioscorea hispida* (Yam.), *Lavendula bipinnata* O. Ktze., *Solanum violaceum* Ortege (Brahati), *Mucuna pruriens*(L.) DC. (Kapikachhchu), *Phyllanthus nodiflora* (L.) Greene (Jalapippali), *Phyllanthus fraternus* Webst, (Bhumyamalki), *Raphanus sativus* Linn. (Mulaka), *Sida cordifolia* Linn. (Bala), *Diospyros perigrina* Gaertn. (Tinduka) etc.

Powder microscopy and Thin Layer Chromatography profile study of forty out of fifty crude drugs from allocated programme projection 2003-2008, have been completed. These drugs were Amalki – *Emlica officinalis* Gaertn.- Fruit pulp (fresh and dried), Arka- *Calotropis procera* (Ait.)R Br.- Root and Leaf, Atibala- *Abutilon indicum* (Linn.) sweet – Root, Babbula – *Acacia nilotica* (Linn.) Willd – stem bark and Gambhari- *Gmelina arborea* Roxb. – Root. Microscopic and TLC profile of 13 drugs have been completed in the year 2005 – 2006 namely, Aragwadha – *Cassia fistula* Linn - fruit pulp, Ashoka – *Saraca asoca* Linn – Stem bark, Ashwagandha – *Withania somnifera* Dunal – Root, Asvattha – *Ficus religiosa* Linn. – Stem bark, Atasi- *Linum usitatissimum* Linn-Seed, Bakuchi- *Psoralea corylifolia* Linn. – Fruit, Bibhitaka – *Terminalia belerica* Roxb. – Fruit – pulp, Bilva- *Aegle marmelos* Corr. – Fruit pulp, Candrasura – *Lepidium sativum* Linn. – Seed, Dhanyaka- *Coriandrum sativum* Linn.-Fruit, Dhataki – *Woodfordia fruticosa* (L.) Kurz. – Flower, Gokshura- *Tribulus terrestris* Linn.-Fruit and Guduchi- *Tinospora cordifolia* (Willd) Miers –Stem and powder microscopy along with thin layer chromatography profile study of 12 drugs have been completed.

PLANT TISSUE CULTURE: - An over view

The thrust of research is to bring the technique of Plant Tissue Culture in the development of procedures for regeneration, development of elite plants, micro propagation of endemic and endangered medicinal plant species, embryo rescue and somatic embryogenesis.

Area of Research/Ongoing activities on Medicinal Plants:

At present protocol establishment of following important Medicinal Plants is in progress.

Bharangi - *Clerodendrum serratum* (Linn) Moon

Dhumrapatra - *Aristolochia bracteata* Retz

Ishwari - *Aristolochia indica* Linn.

Kumkum – *Crocus sativus* Linn.

Manjishtha - *Rubia cordifolia* Linn.

Patala- *Stereospermum suaveolens* DC

Protocols on following important medicinal plants have been completed so far:

Banafsha - *Viola serpens* Wall.

Brahmi - *Bacopa monnieri* (L.)Pennell

Jyotishmati - *Celastrus paniculatus* Willd.

Kutaj – *Holarrhena antidysenterica* Wall.

Patha – *Cissampelos pariera* L.

Prasarini - *Paederia foetida* Linn.

Prishniparni – *Uraria picta* (Jacq.)

Sariva - *Hemidesmus indicus* R.Br.

Shalparni – *Desmodium gangeticum* (L.)DC

Shatavari – *Asparagus racemosus* Willd.

Shyonaka – *Oroxylum indicum* Vent

Trivrit - *Operculina turpethum* Silva Manso

Biochemistry

Studies on Structural and Functional Aspects of Human Telomeric RNA proteins: Telomeres act as caps at the ends of chromosomes, which is essential for chromosome stability. Telomerase is an RNA dependent DNA polymerase which appropriately maintains the telomeres during normal cell division to counterbalance the natural shortening that occurs during replication. Therefore, telomerase regulation is a critical step in tumor genesis and aging. Telomerase activity is found to be up-regulated in more than 90% of human tumors as well as in stem cells and germ lines. The reports indicate that telomere stabilization is a requisite step for tumor development. Although the importance of telomerase expression in tumor development is established, little is known about the mechanisms involved. The aim of the lab is to deliver an integrated, multidisciplinary analysis of the molecular mechanisms of telomerase which will have significant medical implications in cancer and aging.

Main objectives to find out that-

- (1) How proteins in telomerase complex interact and assemble and
- (2) How do the different components of the complex regulates of telomerase function.

The objectives will be directed towards applications of telomerase targets for the discovery of compounds leading to the development of specific drugs to cure associated diseases. Functional Genomics and Proteomics of Ayurvedic Management of Obesity with special reference to Tridosha Prakriti Concept: After completion of human genome project; proteomics or functional genomics remains important. Out of 30,000 genes identified in human genome till date function of merely 40% genes is known. Association studies involving patients and healthy controls are popularly done with advanced techniques such as SNP mapping and gene expression microarrays. Research in Ayurveda mainly focused on drug development and not much attention was given to explore science behind fundamental principles of Ayurveda. In this project our focus is to study differential display of genes/mRNA and proteins in Tridosha Prakriti (Vataj, Pitaj and Kaphaj). Besides exploring the molecular mechanisms of ayurvedic treatment in obesity this project is expected to provide gene and protein signatures for prakritis and identify mechanism of action of ayurvedic treatment in obesity.

Literary Research

Medicinal plants have attracted attention of not only professionals from various systems of Medicine, but also the scientific community belonging to different disciplines like Botany, Chemistry, Pharmacognosy, Agriculture, Pharmaceutics etc. Herbal drugs, being generally harmless in prescribed doses, are becoming popular all over the world and WHO also currently encourages, recommends and promotes inclusion of these drugs in national health care programme. The researchers as well as other agencies and individuals interested in plant drugs find it difficult to get on the spot information collectively on diverse aspects, as the literature is still scattered. Therefore a need was felt to collect all the informations and compile it in form of a publication and also to make it available in form of a Compact Disc. This publication, being first in the series proposed to be published on about 400 medicinal species being commonly utilized in Ayurveda, We have cover the latest valid botanical names and important synonyms (Sanskrit name), classical (Ayurvedic) names, vernacular names, important botanical characters and distribution in India along with a photograph of the plant and parts used to help in identification. brief and concise account of their parts used in medicine, actions and uses, Ayurvedic properties, prescribed doses, Pharmacognostic characters, Chemical constituents, Pharmacological activities, Toxicology, Therapeutic evaluation, Trade & Commerce, Substitutes & Adulterants, Formulations & Preparations and Propagation & Cultivation. The textual matter is supplemented by an exhaustive Bibliography containing up-to-date references. At present we have published I -VIII volume of Data Base covers 260 plants and I- III volume of C D.

Ph. D Programs

This Institute is affiliated/recognized Research Centre with University of Pune for Post graduate and doctoral (Ph.D.) studies in the subject of Biochemistry and Botany. The aspirants, having Post graduate degree and who qualified GATE/CSIR/NET/PET or other equivalent entrance tests, accredited by University of Pune/UGC/Government of India, may apply in prescribed format of University of Pune along with attested copies of relevant documents. The admissions will be governed as per rules and regulations of University of Pune/UGC.

5. OUR SERVICES/FACILITES AVAILABLE

- (i) Demonstration of medicinal plant garden to the Researcher, Students and other visitors.
- (ii) Authetification of Medicinal Plants.
- (iii) Pharmacognosy of medicinal plants.
- (iv) Sale of seedlings of Medicinal plants.
- (v) Training on Plant Tissue Culture Techniques.

GRIEVANCES

- Gratuity related complaint:** Dr. Gajendra B. Rao, Scientists -2 (Botany),
Mobile No. 09423051622
Email- gajendrarao0111@gmail.com
- Grievance Officer** : Dr. T. K. Mandal, Scientists -2 (Ay.)
Mobile No. 09423864877
Email- drmandal.tk@yahoo.com
- Public relation Officer** : Dr. S. D. Pawar, Scientists -2 (Pharmacology)
Mobile No. 09423508037
Email- sd_pawar@yahoo.com
- Women's cell** : Mrs. Archana G. Mhase, Herbarium Assistant
Mobile No. 09850890511
Email- gmarchana@yahoo.com
- RTI OFFICER** : Dr. Gajendra B. Rao, Scientists -2 (Botany),
Mobile No. 09423051622
Email- gajendrarao0111@gmail.com
- VIGILANCE OFFICER** : Dr. Rajesh Dabur, Assistant Director Incharge
Mobile No. 09423508048
Email- rajeshdabur@nic.in

POSTAL ADDRESS OF THE INSTITUTE

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RATES FOR VARIOUS SERVICES WITH EFFECT FROM 13/04/2011

Botany/Pharmacognosy		approximate time Requires for execution
I. Taxonomic identification	Rs. 50/-	one week
II. Identification or authentication for Raw Material of Botanical origin (Single part)	Rs.1500/-	Three weeks
Each additional part	Rs.750/-	
III. a. Identification of the crude drugs by organoleptic characters	Rs.200/-	Two weeks
b. Standardization and characterization of single drug – Anatomy	Rs.1000/-	Four weeks
c. standardization and characterization of single drug –powder microscopy	Rs.1000/-	Four weeks
d. Preliminary Phytochemical/Histochemical test	Rs.1000/-	Four weeks
e. Quantitative microscopic study of leaf parameters	Rs.1000/-	Two months
1. Ash	Rs.150/-	Two week
2. Acid insoluble ash	Rs.150/-	Two week
3. Alcohol soluble extractive	Rs.300/-	Two week

For Botany/ Pharmacognosy-Please Contact: Dr. A M Gurav or Mrs. Archana Mhase

Extraction of plant material

1. Extract from powder plant material (per kg) (Plant material provided by the party)	Rs.2500/-	One month
2. Extract from powder plant material (per kg) (Plant material & solvent provided by the party)	Rs.1000/-	One month
3. Separation of the extract into 4 different fractions by column chromatography (Per 10 gram) (Extract supplied by the party)	Rs.3000/-	One month
4. Separation of the extract into 4 different fractions by column chromatography (Per 10gram) (Extract & solvent supplied by the party)	Rs.1500/-	One month
5. Organic Qualitative test(per extract)	Rs.500/-	Two week

Microbiology

Bacterial load	Rs. 1000/- (per sample)	One month
Fungal load	Rs. 1000/- (per sample)	One month
Enterobacteriaceae	Rs. 700/- (per sample)	Three weeks
Salmonella	Rs. 700/- (per sample)	Three weeks
Staphylococcus aureus	Rs. 700/- (per sample)	Three weeks

Pharmacology

1. Hepatoprotective activity

a. CCl ₄ method	Rs. 10,000/- (Kit cost extra)	Three month
b. Galactosamine method	Rs. 10,000/- (Kit cost +Galactosamine cost extra)	Three month

2. Anti-ulcer activity (Aspirin+ Pyloric ligation method) Rs. 10,000/- Three month

3. Wound healing activity Rs. 10,000/- Three month

4. Anti- inflammatory activity

a. Carrageenin method	Rs. 5,000/-	Three month
b. Cotton Pellet method	Rs. 10,000/-	Three month

5. Analgesic Activity

a. Hotplate method	Rs. 3000/-	Three month
b. Tail flick method	(for each method)	
c. Acetic acid method		

6. Anti-pyretic study (Yeast induced pyrexia method) Rs. 7500/- Three month

7. Anti-arthritis activity Rs. 10000/- Three month
(Kit cost + Freund's adjuvant costs extra)

(Freund's adjuvant method)

8. Nephro protective activity

1. Gentamycin method	Rs. 10000/-	Three month
2. Cisplatin method	Rs. 10000/- (Kit cost extra)	Three month

9. Immunomodulatory activity

a. Humoral immunity by SRBC	Rs. 10,000/-	Three month
b. Cell mediated immunity by triple antigen	Rs. 5,000/-	Three month

(Cyclophosphamide cost extra in both studies)

10. Antidiabetic activity

a. Alloxan method	Rs. 10,000/- (Glucose strip cost extra)	Three month
b. Streptozotocine method	Rs. 10,000/- (Glucose strip + Streptozotocine cost extra)	Three month

11. Hypolipidemic activity

Rs. 10,000/- (Cholesterol +Kit cost extra)	Three month
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12. Toxicity studies (Oral or Dermal)

a. Acute toxicity	Rs. 12,000/-	Three month
b. Repeated dose toxicity (28 days)	Rs. 1.25 Lakhs/-	
c. Repeated dose toxicity (90 days)	Rs. 2.00 Lakhs/-	

13. CNS activity

Rs.3000/- (For each method)	Three month
a. Actophotometer	
b. Plus maxe test	
c. Hole board test	
d. Y-maze test	
e. Behavioral despair test	
f. Rota-rode test	
g. Reserpin test	

14. Anticonvulsant activity (MES method)

Rs. 5000/-	Three month
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***Note: -Cost mentioned above is excluding histopathological studies**

For Biochemistry / Contact Ms. Ritu Sinha

Plasma/serum/urine biochemical parameters-

Charges per sample are as follows-

1. Total Cholesterol	Rs. 20/-	One week
2. Total Bilirubin	Rs. 20/-	One week
3. Glucose	Rs. 20/-	One week
4. Albumin	Rs. 20/-	One week
5. Total protein	Rs. 20/-	One week
6. Alkaline Phosphatase	Rs. 20/-	One week
7. GOT	Rs. 20/-	One week
8. GPT	Rs. 20/-	One week
9. LDH	Rs. 20/-	One week
10. Gamma Glutamy /Transpeptidase	Rs. 20/-	One week
11. Urea	Rs. 20/-	One week
12. Creatinine	Rs. 20/-	One week
13. Uric acid	Rs. 20/-	One week
14. Sodium	Rs. 20/-	One week
15. Potassium	Rs. 20/-	One week
16. Chloride	Rs. 20/-	One week
17. Total Lipids	Rs. 20/-	One week
18. Lipase	Rs. 20/-	One week
19. Triglycerides	Rs. 20/-	One week
20. High Density Lipoproteins	Rs. 20/-	One week
21. Low Density Lipoproteins	Rs. 20/-	One week
22. Calcium	Rs. 20/-	One week
23. Amylase	Rs. 20/-	One week

***Note: - charges for the diagnostic kits are to be borne by the customers.**

Tissue Biochemical Parameters (charges per sample)

1. Total Protein	Rs. 200/-	Two week
2. Glycogen	Rs. 300/-	Two week
3. Deoxy ribo nucleic acid (DNA)	Rs. 400/-	Two week
4. Ribonucleic acid (RNA)	Rs. 400/-	Two week
5. Ascorbic acid	Rs. 300/-	Two week
6. Alkaline phosphatase	Rs. 300/-	Two week
7. Aspartate transaminase (GOT)	Rs. 300/-	Two week
8. Alanine transaminase (GPT)	Rs. 300/-	Two week

Proximate analysis

1. Total Carbohydrates	Rs. 150/-	One week
2. Reducing & Total sugars	Rs. 150/-	One week
3. Starch	Rs. 150/-	One week
4. Total protein	Rs. 150/-	One week
5. Total & free amino acid	Rs. 150/-	One week
6. Total lipids	Rs. 150/-	One week
7. Vitamin C	Rs. 150/-	One week
8. Iron	Rs. 200/-	Two week
9. Calcium	Rs. 200/-	Two week
10. Sodium	Rs. 200/-	Two week
11. Potassium	Rs. 200/-	Two week
12. Selenium	Rs. 200/-	Two week
13. Chloride	Rs. 150/-	Two week
14. Phosphorous	Rs. 150/-	Two week
15. Flavonoids	Rs. 150/-	Two week
16. Phytic acid	Rs. 150/-	Two week
17. Tannin	Rs. 150/-	Two week

Antioxidant evaluation – *in Vitro*

1. Reducing power	Rs. 200/-	Two weeks
2. Iron chelating activity	Rs. 200/-	Two weeks
3. Nitric oxide radical scavenging activity	Rs. 200/-	Two weeks
4. Hydrogen peroxide radical scavenging activity	Rs. 200/-	Two weeks
5. Superoxide radical scavenging activity	Rs. 200/-	Two weeks
6. DPPH	Rs. 1000/-	One month

Antioxidant evaluation – *in Vivo*

1. Superoxide Dismutase	Rs. 100/-	Two weeks
2. Catalase	Rs. 100/-	Two weeks
3. Reduced Glutathione	Rs. 100/-	Two weeks
4. Vitamin C	Rs. 100/-	Two weeks
5. Lipid Peroxidation	Rs. 100/-	Two weeks

Note:

For students 50% of the above rates will be levied.

Rates will be revised once in two years.

Training/Projects for UG/PG/Ph.D.- Excluding boarding and lodging charges per month

Pharmacognosy	Rs. 3000/-
Microbiology (Antimicrobial studies with MIC)	Rs. 3000/-
Pharmacy	Rs. 1000/-
Chemistry	Rs. 5000/-
Pharmacology	Rs. 2000/-
Biochemistry	Rs. 6000/-
Library	Rs. 50/- per day

Note: This Institute is recognized for imparting training to WHO Fellows and recognized by Pune University for Ph.D. studies in the subject Biochemistry and Botany.

MONTHLY SALARY DETAILS OF EMPLOYEES AS ON 01.07.2011

Sr. No.	Name of the officer & Staff	Designation.	Basic pay (Rs.)	Grade pay (Rs.)	PAN NO.
1	Dr. Rajesh Dabur	Assistant Director Incharge	19510	6600	AIMPD5292Q
2	Dr. Gajendra Rao	Scientists -2 (Botany)	21580*	6600	AGJPB9599C
3	Dr. T. K. Mandal	Scientists -2 (Ayurveda)	18950*	6600	AKJPM9250F
4	Dr. S. D. Pawar	Scientists -2 (Pharmacology)	18950*	6600	APPPP5693E
5	Dr. A. M. Gurav	Research Officer (Botany)	18950	5400	ABAPG8005G
6	Sh. B. S. Wagh	Staff Car Driver	11380	2400	AAPRW6645G
7	Mrs. Archana G. Mhase	Herbarium Assistant	9830	2400	ANQPM6294D
8	Sh. D. N. Sonkamble	Field Collector	9830	2400	ACVPS4741F
9	Sh. R. P. Padaya	Lower Division Clerk	9830	2400	BHQPP0153B
10	Mr. Amey R. Shirolkar	Lab. Technician (Molecular Biology)	7510	2400	BSEPS5518N
11	Mr. Suresh Kumar	Lab. Technician (Pharmacognosy)	7510	2400	BSSPK9855L
12	Miss. Ritu Sinha	Lab. Technician (Tissue Culture)	7510	2400	CLPPS9132M
13	Sh. A. C Dahale	Lab Attendant	8850	2000	ATGPD6500R
14	Sh. P. M. Londhe	staff Car Driver	8510	1900	AAGPL7861A
15	Sh. T. S. Kambale	Kitchen servant	7680	1800	BRXPK7929M
16	Sh. L. I. Sarse	Safaiwala	6900	1800	CBUPS2305F
17	Dr. (Mrs.) Sutapa Chakraborty	Senior Research Fellow- Ayurveda	20000	-	AMZPC6087C
18	Mr. Amit Nale	Senior Research Fellow –Botany	18000	-	AJIPM7029D

***Basic Pay yet to be decided.**

Citizen's Charter



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Department of AYUSH,
Ministry of Health & Family Welfare,
Govt. Of India,
New Delhi.

NATIONAL RESEARCH INSTITUTE OF BASIC AYURVEDIC SCIENCES

CITIZEN'S CHARTER

1. INTRODUCTION-

National Research Institute of Basic Ayurvedic Sciences, Pune formerly known as Jawaharlal Nehru Ayurvedic Medicinal Plants Garden and Herbarium is a leading research centre of the Central Council for Research in Ayurveda and Siddha, an autonomous organization under the Department of AYUSH, Ministry of Health and Family Welfare, Govt. of India. It was established in May, 1961 by the Indian Government as per the recommendations of the Central Council of Ayurvedic medicine with a view to carry out survey, collections and cultivation of medicinal plants. During the first two decades, after its establishment the activities of the centre were limited chiefly to the development and maintenance of the demonstrative garden and to certain extent experimental cultivation of medicinal plants. In order to accelerate the research activities, the Council merged the Pharmacognosy Research Unit functioning at Indian Drug Research Association, Pune with Jawaharlal Nehru Ayurvedic Medicinal Plants Garden and Herbarium in 1980 and established a Plant Tissue Culture Laboratory in 1990. Recently, Institute developed a molecular biology lab focused to work on the fundamental research on the principles of Ayurveda. One quality control lab and mini pharmacy for drug standardization are under construction. Furthermore, the centre maintains a small library, a herbarium and a reference museum of medicinal plants particularly of Ayurvedic importance.)

2. **OUR MISSION & VISION-** (To research at the interface of Ayurveda and Life sciences and to translate developed concepts to commercially viable health care technologies.)
3. **OUR COMMITMENTS-** - (Improvement of plantation Techniques for Medicinal Plants. Micro propagation and somatic embryogenesis of the medicinal plants. To assess plant & human metabolites & proteomics. Tissue culture studies on rare and endangered taxa, used in Ayurveda. Ex-situ conservation of endemic and economically important plants. Resource generation from sale of tissue cultured medicinal plants).
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(iv) To co-relate the psychosomatic constitution (prakriti) of individuals with proteome.
(v) To standardize pharmacognostic profiles of important medicinal plants.
5. **OUR ACTIVITIES AND ACHIEVEMENTS** (Add from existing information)
6. **OUR SERVICES/FACILITES AVAILABLE**
- (i) Demonstration of medicinal plant garden to the researcher, students and other visitors.
 - (ii) Authetification of Medicinal Plants.
 - (iii) Pharmacognosy of medicinal plants.
 - (iv) Sale of seedlings of Medicinal plants.
 - (v) Training on Plant Tissue Culture Techniques.

REVIEW

Institute intends to review the Citizen's Charter periodically, Suggestions are welcome

Extra mural Research Project, Funded by AYUSH, Govt. of India, evaluation officers.

- 1) Dr. Rajesh Dabur – For Drug Standardization,
- 2) Dr. T.K Mandal – For Ayurvedic Research Projects.

COMPLAINTS & GRIEVANCES

The complaints and grievances may be addressed to:-

Gratuity related complaint:- Dr. Gajendra Rao, Scientists -2 (Botany),
Mobile no. 09423051622
Email- gajendrarao0111@gmail.com
National Research Institute
Of Basic Ayurvedic Sciences,
Nehru Garden, Kothrud, Pune – 411038
Landmark: Near Gandhi Bhavan, Behind Cummins Factory

Grievance Officer- : Dr. T. K. Mandal, Scientists -2 (Ayurveda)
Mobile no. 09423864877
Email- drmandaltk@yahoo.com
National Research Institute
Of Basic Ayurvedic Sciences,
Nehru Garden, Kothrud, Pune – 411038
Landmark: Near Gandhi Bhavan, Behind Cummins Factory

Public Relation Officer:- Dr. S. D. Pawar, Scientists -2 (P'cology)
Mobile no. 09423508037
Email- sd_pawar@yahoo.com
National Research Institute
Of Basic Ayurvedic Sciences,
Nehru Garden, Kothrud, Pune – 411038
Landmark: Near Gandhi Bhavan, Behind Cummins Factory

Women's cell:- Mrs. Archana G. Mhase, Herbarium Assistant
Mobile no. 09850890511
Email- gmarchana@yahoo.com
National Research Institute
Of Basic Ayurvedic Sciences,
Nehru Garden, Kothrud, Pune – 411038
Landmark: Near Gandhi Bhavan, Behind Cummins Factory

BANK ACCOUNT DETAILS:

Bank name- STATE BANK OF INDIA,

Branch- DECCAN GEYMKHANA, PUNE- 411004.

Account No. 11100354841 (Plan)

31787676539 (Non Plan)

31787694253 (Research Activity)

Institute TAN No. PNEAO1185C

Institute Survey/Property No. p/1/90/00037000 & p/1/90/00085000

Journals available in the Library

1. Ancient science of life
2. Indian drugs
3. Agro bios
4. Journals research Ayurveda science
5. Journals D research Ayurveda science
6. Indian journal of experimental Biology
7. Bio-technology
8. Journal of bio chemistry & biophysics
9. Phytomorphology
10. Journal of traditional knowledge
11. Current science

Council Publications for Sale

Sr. No	Name of the Books	Price Rs.
1	Data Base Volume No.1	900.00
2	Data Base Volume No.2	500.00
3	Data Base Volume No.3	500.00
4	Data Base Volume No.4	500.00
5	Data Base Volume No.5	900.00
6	Data Base Volume No.6	720.00
7	Data Base Volume No.7	400.00
	Ayurvedic Pharmacopoeia of India	
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