

**AIISH**

# **ANNUAL REPORT**

## **2003 - 04**

2005 - 06



**All India Institute of Speech and Hearing**  
**Naimisham Campus,**  
**Manasagangothri, Mysore - 570 006**



# CONTENTS

<b>Director's Report</b>	1
<b>Departments</b>	
1. Audiology	24
2. Clinical Psychology	47
3. Electronics	56
4. Material Development	65
5. Otorhinolaryngology	67
6. Speech Pathology	70
7. Speech-Language Sciences	80
<b>Central Facilities</b>	
1. Academic Section	99
2. Therapy Clinic	107
3. Extension Services	116
4. Library and Information Center	122
5. Engineering Section	124
6. Horticulture	125
<b>Other Programs</b>	
1. Publicity and Information	126
2. AIISH Gymkhana	128
3. NSS	130
4. Official Language Implementation	131
<b>Appendices</b>	
Appendix 1 - Clinical Statistics	133
Appendix 2 - Committees of the institute	
- Executive Council	140
- Finance Committee	143
- Academic Committee	145
Appendix 3 - Personnel	147
Appendix 4 - Accounts and Audit	153



# **DIRECTOR'S REPORT**

**2003-04**

The year 2003-04 was significant for the discipline of speech and hearing in India. The multifaceted growth and expansion of the discipline in the global context necessitated imparting indepth knowledge of recent and advanced developments in the areas of audiology and speech-language pathology. The All India Institute of Speech and Hearing implemented specialized post-graduate programs leading to M.Sc (Audiology) and M.Sc (Speech-Language Pathology) during the year. With this, a long cherished objective of speech and hearing professionals in this country for unique programs in the two disciplines was achieved. This also made our program consonant with the international pattern.

Manpower requirement in the area of special education also got a boost with the introduction of a specialized course, leading to one year B.S.Ed (Hearing Impairment). The objective of this training program is to train teachers and equip them with special skills to enable them to attend to the special requirements of children with hearing impairment in a classroom. The teachers trained in this program are equipped to meet the requirements of inclusive education for persons with disability.

Rehabilitation program is effective when it is implemented at an early age. Therefore, the clinical services at the institute are extended to children in their preschool years. The new 'Preschool Training Center', launched this year, offers training in the areas of cognition, communication, socialization and other domains necessary for inclusive/integrated educational set-up. Preschool training is offered to children with hearing impairment, mental retardation, cerebral palsy and autism. Teachers with specialized training in the above areas have been appointed for this purpose.

The clinical clientele of our institute who have been receiving our focused attention all these years received further specialized attention this year. Several committees / forums were constituted last year to address the consumer's needs. The Citizens Charter, which guarantees the rights and

privileges of the clinical clientele, was implemented. A committee was also constituted to look into the grievances of the public about our services. A tool is being developed to assess the satisfaction level of persons about our services. The tool would be implemented as and when it is standardized.

Extension services were made intensive through the project on 'Prevention of deafness and communication disorders' and organization of camps. Identification of impairments, distribution of aids and appliances along with counseling, and orientation on clinical work at the community level are the major objectives of extension program.

Communication is very specific to a particular language and culture. Accordingly, the rehabilitation services that include sensitization/ orientation and education of individuals and family on clinical issues and facilities require indigenously tailored resource materials. There is a great need for diagnostic and therapeutic materials that are culture-specific, and both language-dependent and language-independent, in our context. Development of such material needed focused attention. Therefore, the institute launched a new department of Material Development with 4 staff members, during the year. The objectives of the new department are to produce resource materials in print, audiovisual and electronic media for training, clinical and research purposes.

National Conference of  
ISHA inaugurated  
by  
**Dr. A.B. Malaka Reddy**  
Hon'ble Minister for  
Medical Education

Consequent to an increase in the intake of students and launching of new courses and programs, augmentation of infrastructural facilities was necessary. His Excellency Sri T. N. Chaturvedi, Hon'ble Governor of Karnataka, laid foundation stones for the construction of new blocks for administration division of the institute, and a new hostel for ladies. The two buildings are planned at an estimated cost of Rs.3.2 crores.

AIISH hosted the 36th National Conference of ISHA which was inaugurated by Dr. A. B. Malaka Reddy, Hon'ble Minister for Medical Education, Government of Karnataka. Sri Kumar Bangarappa, Hon'ble

Minister for Municipal Administration was the Guest of Honor. Nearly 800 delegates from all over India participated in the conference. A total of 74 scientific papers, including posters, were presented at the conference.

The clinical population which participates in research projects have certain rights and privileges, most important being their right to information. It is the responsibility of every researcher to ensure that the rights of the clinical population are respected and that their dignity is not violated. The institute constituted an Ethics Committee, under the Chairmanship of Hon'ble Justice J.R. Sadashiva, former judge of the Hon'ble High Court of Karnataka. The committee would peruse all research proposals and ensure that research ethics are practiced.

The Executive Council of the institute, which is the highest decision taking body, met on 5th July 2003 with Smt. Sushma Swaraj, Hon'ble Minister for Health and Family Welfare, Government of India as the Chair and took some important decisions for the upliftment of the activities of the institute. The prominent proposals approved, among others, were as follows:

- a) The existing 25-years old distribution pattern of seats for B.Sc (Speech and Hearing) was changed. Apart from the change in the reservation pattern, the EC also approved conducting national entrance examination for admission to B.Sc (Speech and Hearing) and to base all admissions on the results of a national entrance test.
- b) Approval was given for the establishment of a new Department of Material Development. This would be the 7th department at the institute.
- c) The pensioners of AIISH, Mysore residing in cities not covered by CGHS, were granted a fixed medical allowance of Rs. 100/- per month.

#### **EC Decisions**

- National Entrance Test
- Establishment of new department
- Benefit to pensioners
- Construction of new buildings
- APS for faculty



- d) Construction of an administrative block, an academic block and a new hostel for the ladies, at a total cost of Rs. 4.4 crores, was approved. This would considerably augment the infrastructure available for the activities of the institute.
- e) The EC approved a scheme on career progression for the faculty of AIISH. Under this program, the faculty of the institute would be assessed every 5 years, and if found suitable, promotion would be given to higher rank and pay.
- f) The EC approved the proposal to nominate Head of the Departments by rotation from among the Professors and Readers in a given department. The Head of the Department will henceforth be by rotation for a period of 2 years.
- g) It was approved to elevate AIISH library to Grade III from the existing Grade II.

## **TRAINING**

### **Introduction of Internship**

The speech and hearing discipline is a clinical program. It is necessary to provide wide clinical exposure to the students to equip them to deal with speech and hearing disorders, to enable an understanding of the depth of these disorders, and address the many needs of the affected in several contexts, besides managing the impairment. Therefore, on the stipulation of the RCI, it was decided to implement a clinical internship program of 1-year for B.Sc final year students. A proposal in this regard, approved by the University of Mysore, is before the Government of Karnataka awaiting final approval.

### **Introduction of New Courses**

- M.Sc (Speech-Language Pathology)
- M.Sc (Audiology)
- B.S.Ed (Hearing Impairment)

#### **New academic programs**

Internship for B.Sc.  
 M.Sc (Audiology)  
 M.Sc (Sp-Lang Path)  
 B.S.Ed (HI)

The highlight of academic activities at the institute in 2003-04 was the introduction of new academic programs. Bifurcation of the existing M.Sc (Speech and Hearing) program into two separate specialized programs in Audiology and Speech-Language Pathology was a long felt need of the professionals. Two new programs, namely (i) a 2-year M.Sc (Speech-Language Pathology) and (ii) a 2-year M.Sc (Audiology) were introduced during this year. The area of Special Education also got a fillip with the introduction of a 1-year post B.Ed course leading to B.S.Ed (HI). The objective of this course is to generate manpower who can attend to the special requirements of hearing impaired children in normal class rooms. It is hoped that this will strengthen the program of inclusive education for hearing impaired. Table 1 shows the number of seats in different courses.

Course	Number of seats	
	(2002-03)	(2003-04)
B. Sc (Sp & Hg)	33	40
B. S. Ed (HI)	-	16
M. Sc (Sp & Hg)	25	25
M. Sc (Speech-Language Pathology)	-	16
M. Sc (Audiology)	-	16
Diploma in Hearing Aid & Earmold Tech.	15	15
Junior Research Fellowship	4	4

Table 1: Number of seats in different courses.

### Award of Medals



The institute awarded various medals which are instituted by philanthropists to distinguished students of the institute. The awards were given away by Prof. B.K. Chandrashekar, Hon'ble Minister for Primary Education, Government of Karnataka on the occasion of the Institute Day on 10th October 2003.

- Ms. Tanushree Saxena was awarded the Sri Venkatesh Murthy Medal for having secured First Rank in B.Sc.
- Ms. Mili C Samuel was awarded Ms. Jayalakshmi Medal for having secured first rank in M. Sc.
- Mr. Kripal Singh received 'Abhilasha Award' for the Best Student Clinician.

The University of Mysore awarded the following medals at the Convocation held in January 2004.

- Ms. Mili C Samuel received the Arati Venkataraman Memorial Gold Medal for having secured highest marks in M.Sc (Speech and Hearing) at the annual convocation.
- Ms. Namrata Mudkatte was awarded the P. D. Manohar Gold Medal for having secured highest marks in Speech Pathology subjects in M.Sc (Speech and Hearing).

## Doctoral Program

Doctoral program is a major academic activity of the institute. Table 2 summarizes the number of doctoral students working at the institute.

Particulars	Nos.
Candidates working for Ph. D (AIISH Staff)	8
Candidates working for Ph. D (student fellows)	11
Candidates awarded research fellowship during the year	3
Total No. of scholars working for their Ph.D	19
Ph. D's awarded	1
Candidates who submitted thesis	3

Table 2: Summary of Ph. D program.



## RCI Funded Training Programs

### ■ PHC Doctors Program of the Rehabilitation Council of India (RCI)

AIISH plays a very active role in implementing the programs of the Rehabilitation Council of India. AIISH is the chief nodal center in Karnataka for the RCI program on the training of medical officers working at Primary Health Centers. A grant of Rs.15.52 lakhs was received from RCI towards the program. The objective of the program is to educate the doctors on disability and its related issues so that the persons with disability can get some assistance nearer to their doorsteps. A total of 2013 doctors were trained in the State of Karnataka in the last 4 years. The program has officially come to an end on 31.3.2004. Table 3 gives the number of doctors trained under the program during the year 2003-04.

Center	No.of trainees	No.of programs
AIISH, Mysore	403	23
KIMS, Hubli	365	22
<b>Total</b>	<b>768</b>	<b>45</b>

Table 3: PHC Doctors training program

### ■ Continuing Rehabilitation Education Program (CRE) of the RCI

A CRE program has been instituted by the RCI to upgrade the knowledge and skills of rehabilitation professionals working in the field of special education and rehabilitation including speech and hearing discipline. A program on "Needs of Learning Disabled Children in Schools" was organized by AIISH in March 2004. Sixty participants benefited from this program.

### ■ Sensitization and Orientation Programs

The institute has been conducting orientation programs to educate the public on various aspects related to speech and hearing disability. Six programs on identification, prevention and management of hearing

impairment, 5 programs on professional voice care and 15 other short-term training programs were conducted during the year. Table 4 shows the number of skilled and semi skilled professionals who were trained during the year.

Heads of schools and teachers	1250
Teacher trainees	340
Nurses and Nursing trainees	103
B.Ed, D.Ed and TCH students	290
Parents of hearing aid users	40
Anganwadi workers	40
Hearing aid users	70
Industrial workers	84
PHC doctors	20
MIT students	4
Voice-over artists	10
Primary school children	104
Students and teachers of vocal music	29
Students of law	67
<b>Total</b>	<b>2451</b>

Table 4: Number of persons trained under various sensitization programs

## CLINICAL SERVICES

Clinical services to persons with communication disorders offered at the institute are multifaceted in nature. The range of services include advice on prevention and early identification of disability, diagnosis and assessment, therapeutic services, follow-up and monitoring, issue of aids, appliances and certificate of disability.

Extension services form another major dimension of the clinical and public education services of the institute. Screening programs and identification camps are held for infants, school children, rural public and geriatric individuals. These programs are generally carried out through the project on 'Prevention of Deafness and Communication Disorders'. Tables 5 - 9 present detailed statistics of clinical services offered by the institute during the year.

New clients registered	14018
Clients for follow-up evaluation	16495
Hearing evaluation	7511
Speech-language evaluation	4928
Psychodiagnostic evaluation	3974
ENT evaluation	10116
Evaluation by clinical linguist	75
Evaluation at AAC unit	26
Evaluation for maxillofacial anomalies	31
Evaluation by visiting consultants	1131
Professional voice care	44

Table 5: Diagnostic services rendered at the institute

Other Services	
<b>Total number of :</b>	
Clients evaluated for hearing aids	5477
Free hearing aids issued under ADIP scheme	3319
Custom earmolds and special earmolds prepared	3094
Clients for speech language therapy	3422
Individual therapy sessions conducted	30666
Clients for group therapy	389
Group therapy sessions conducted	1285
Clients for auditory verbal therapy	683
Sessions for auditory verbal therapy	8755
Clients for AAC	26
Sessions for AAC	596
Palatal prosthesis issued	31
Clients for behavior and psychotherapy	1024
Sessions for behavior and psychotherapy	3193
Clients offered medical services at the institute	977
Clients offered medical services at KR Hospital	20873
Hearing aid repair and service	922
Equipment repair and service	220
Certificate of disability issued	2057

Table 6: Details of other services



----- Extension Services -----	
<b>Total number of:</b>	
Infants screened	7797
Clients screened at camps	5295
Children screened in schools	7811
Referred to AIISH	498
Industrial workers screened	84
Free hearing aids issued in camps	477
Certificate of disability issued in camps	833
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Table 7: Details of extension services

----- <b>Total number of :</b> -----	
New clients evaluated at AIISH	14018
Clients for follow-up evaluation	16495
Infants screened	7797
Children screened in schools	7811
Clients screened at camps	5295
Industrial workers screened	84
-----	
<b>Total</b>	<b>51500</b>
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Table 8: Summary of clients evaluated in the year 2003-04

----- Nature of Therapy -----		No. of Sessions -----	
Individual Therapy for speech-language		30666	
Group Therapy		1285	
Auditory verbal Therapy		8755	
Behaviour and Psychotherapy		3193	
AAC Therapy		596	
-----		-----	
<b>Total</b>		<b>44495</b>	
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Table 9: Summary of Therapeutic sessions conducted at AIISH.

'AIISH-Mother of the year' award is earmarked for a mother, a father or a guardian who has shown exceptional skills in training their child. This year, as an exception, "AIISH Mother of the year" award was won by a father. Mr. K. Jeseeph Zacharia, father of Master Blesson J received the award on 3rd December 2003 on the occasion of the 'World Disabled Day'.

## **RESEARCH**

Institute undertakes research in the core areas of speech-language pathology and audiology as well as research of multidisciplinary nature. AIISH Research Fund, established in the year 2001, has given enormous boost for research at the institute. Projects initiated and completed during the year are given below.

### **Projects Completed under AIISH Research Fund**

- Professional Services of AIISH Graduates: International Scenario  
Investigators : M. Jayaram & S. R. Savithri
- Publication of Dissertation Abstracts - 1972-2000  
Investigators : M. Jayaram & S. R. Savithri
- Effect of Auditory Stimulation on Central Auditory Processing in Children with CAPD  
Investigator : Asha Yathiraj
- Sensitivity and specificity of audiological tests in differential diagnosis of auditory disorders.  
Investigators : M. Jayaram & C. S. Vanaja
- Evaluation Battery for Central Auditory Processing Disorders in School-going Children  
Investigator : K. Rajalakshmi
- Standardization of Kannada Language Test (KLT) for Children  
Investigators : K. C. Shyamala, M. Jayaram & Vijayashree

## **Projects Initiated under AIISH Research Fund**

- Aging and Pathological Correlates of Voice  
Investigator : M. Pushpavathi
- Long Latency Evoked Potentials in Children with Learning Disorders  
Investigator : C. S. Vanaja
- Personality Correlates of Voice Disorders  
Investigators : S. Venkatesan & M. Pushpavathi
- Speech Language Tests of AIISH (Salt - AIISH)  
Investigators : K. S. Prema, S. R. Savithri & M. Jayaram
- Development and Standardization of Computer Assisted Software on Behavioral Assessment and Learning Activities for Kids with Communication Disorders (Balak-CD)  
Investigator : S. Venkatesan
- Language Acquisition in Multilingual Children - A survey  
Investigators : K. S. Prema & Y. V. Geetha

## **Projects Funded by External Agencies**

- Development of FM hearing aid system  
Funded by : Ministry of Social Justice and Empowerment,  
Government of India  
Investigators : M. Jayaram, Ajish K. Abraham & S. R. Srinivas
- Prosodic Perception in the Brain Damaged  
Funded by : Department of Science and Technology,  
Ministry of Science and Technology, Government  
of India  
Investigators : S. R. Savithri & H. Rohini
- RCI Impact Study on the Training of PHC doctors  
Funded by : Rehabilitation Council of India  
Investigators : M. Jayaram & H. Rohini



The Rehabilitation Council of India awarded a project to Prof. M. Jayaram. The scope of this project included study on the impact of RCI orientation program for PHC doctors working in Primary Health Centres in the State of Karnataka and Andhra Pradesh. Under the project, a detailed questionnaire was sent to 1000 doctors. Analysis of responses is in progress. The initial results of the analysis shows that the orientation program of the medical officers was effective and has resulted in a greater number of references from PHC doctors to various speech and hearing centers.

## OTHERS

### Library and Information Centre

The institute commissioned a microwave connection from Software Technology Park of India. Subsequently computerization of the activities of the Library and Information Centre was taken up. This enables the readers to:

- (a) have easy access to and speedy retrieval of library information
- (b) search for complete text of journals and books
- (c) exchange information with other speech and hearing centers in the country.

Some salient statistics pertaining to library are in Table 10.

No. of existing volumes	13,263
No. of new volumes added	513
No. of Journals subscribed	59
No. of Journals/books issues and consulted	97,118
No. of outside members enrolled	69
Budget (Rs. in lakhs)	15.00

Table 10: Library Statistics

## Conference / Workshop / Seminars Organized

### ■ 36th National Conference of the Indian Speech & Hearing Association

The institute hosted and organized the 36th National conference of the Indian Speech and Hearing Association from 16-18 January 2004. Dr. A.B. Malaka Reddy, Hon'ble Minister for Medical Education, Government of Karnataka, inaugurated the conference on 16th January 2004. The conference hosted a seminar on 'Disability issues', and also conducted two continuing education programs on "Auditory Processing Disorders" and "Alternate and Augmentative Communication Disorders". The conference was attended by as many as 800 delegates from all over India and abroad. AIISH students won 8 of the 10 'Best paper awards' that were at stake at the conference. The winners are:

N. Banumathy & R. Manjula	Co - articulatory variations in propositional Vs. non-propositional speech. Muktesh award for best paper in Speech Pathology.
Radhish Kumar, Pintu Kumar & R. Manjula	Effect of training on Narrow Transcription. Manohar Memorial Young Scientist award in Speech Pathology
B. Bhuvaneswari, S. Rajini & K. S. Prema	Stroop effect in learning disability : facilitation or interference? Sheila Vora Best paper in learning disability
M. Venugopal, S. Rajasudhakar & S.R. Savithri	Maximum duration Phonation and s/z ratio in Dravidian children. B. M. Abrol's Best paper in voice
Sivaprasad Reddy, U. Ajith Kumar & C. S. Vanaja	Characteristics of auditory brainstem responses evoked by speech bursts. Muktesh award for best paper in Audiology



Smt. P. Jyothi Rao, Add. Secretary (Health) examining the functioning of a hearing aid during her visit to the institute on 26th February 2004.



Smt. P. Jyothi Rao, Add. Secretary (Health) interacting with children and special educators in the preschool center of the institute on 26th February 2004.



His Excellency Sri. T. N. Chaturvedi, Hon'ble Governor of Karnataka laying the foundation stone for Administrative Block in the institute on 8th January 2004.



His Excellency Sri. T. N. Chaturvedi, Hon'ble Governor of Karnataka, releasing an AIISH Brochure on 8th January 2004.



Srikant Kumar Mishra, Sugat Roy & S. N. Vinay	Impact of mobile phone use on outer hair cells: A pioneering Indian report. Dayalan Samuel's SSV award for the Best Paper in Audiology
Yatin Mahajan & S. N. Vinay	Psychological tuning curve pattern and slope in subjects with normal hearing and low frequency hearing loss with dead regions. Manohar Memorial Young Scientist award in Audiology.
G. Anjali & C. M. Vinay Kumar	Tuning curve audiogram. Raghunathan Memorial award for best poster in Audiology.

<p style="text-align: center;"><b>Honours</b> 8 Awards at ISHA International fellowship to Sapna Bhat</p>
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- **Eleven other workshops / seminars were conducted by the institute as shown in below.**

### **Electronics**

- Repair of BTE hearing aids. February 2003, Hearing aid companies
- Repair, maintenance and calibration of OAE and BERA. August 2003, Instrument dealers
- Camp for free repair of body worn hearing aids. October 2003, Rotary West, Mysore
- Workshop on Acoustic noise it's hazards, measurement and control. December 2003, AIMIL Ltd., Bangalore

## **Audiology**

- Auditory verbal therapy. August 2003, AIISH
- Digital hearing aids. October 2003, Siemens International Limited
- Seminar on BAHA. December 2003, AIISH

## **Speech-Language Sciences**

- Clinical linguistics. July 2003, AIISH
- Prosody: Measurements and clinical Implications. November 2003, AIISH
- Cross-language perception of vowels in Kannada. November 2003, AIISH and CIIL

## **Academic Section**

- Clinical curriculum in speech and hearing. January 2004, AIISH

## **Seminars / Conferences abroad**

### **International Conference**

**M. Jayaram,**  
Bangkok, Thailand

**Sapna Bhat**  
Arizona, USA

**S.N.Vinay**  
England

On the invitation from World Health Organization, Prof. M. Jayaram, Director, All India Institute of Speech and Hearing, Mysore attended an International Meeting on "Development of Framework of Proposed Regional Collaboration for Prevention of Deafness and Hearing Impairment" at Bangkok, Thailand from 27th to 29th November 2003. The objectives of the meeting were to :

- (a) review region and country specific progress, constraints and future steps in prevention of deafness and hearing impairment,
  - (b) obtain consensus on conceptual framework/terms of reference for South-East Asia collaboration for prevention of deafness, and
  - (c) to identify steps/process for development and functioning of the collaboration.
- Ms. Sapna Bhat, Junior Research Fellow presented a paper entitled 'Code switching in normal and aphasic Kannada-English bilinguals' at the 4th International symposium on bilingualism held at Arizona, USA. She was awarded a fellowship by the host country for this purpose.
  - Vinay S. N. (2003): "Effects of high-pass filtering on speech intelligibility in subjects with normal hearing and subjects with and without dead regions in low frequencies" in British Audiology Association Conference held from 8-9 May at Cambridge University and Institute of Laryngology and Otology from 12 -13 May at London.

## **WHO Fellows**

Mr. Md. Abu Taleb and Mr. Md. Abu Zobair, WHO fellows from Bangladesh underwent a short term training program on "Servicing calibration, maintenance and repair of modern audiological equipment" at this institute for two weeks from 28th April to 9th May 2003.

## **Citizens Charter**

A Citizens Charter on Consumer Rights and Privileges was framed for public proclamation and implementation. The Charter defines nine major clauses on Right to Equality, Right to Informed Consent, Right to Choose, Right to be Heard, Right to Seek Redress, Right to Consumer Education, Right to Confidentiality, Right to Integration and Mainstreaming, and Right for Barrier Free Environment. The Charter has been published in three languages, namely, Hindi, Kannada, and English for consumers benefit. It has been displayed at various places at the institute. Copies of the Charter

were sent to all Members of Parliament and Members of Legislative Assembly of the state of Karnataka.

### **Public Grievances Redressal Forum**

A Public Grievances Redressal Forum was formed to attend to the complaints and suggestions of clinical population visiting AIISH. A suggestion/complaint box has been placed at the reception of the Therapy Clinic of the institute. A Public Grievance Redressal committee has been formed to look into the suggestions/complaints of the public and provide justice to them.

### **Ethics Committee**

An Ethics Committee was constituted under the chairmanship of Hon'ble Justice A. R. Sadashiva, former Justice of the Hon'ble High Court of Karnataka. The committee gives clearance to research projects of AIISH involving human subjects. This is in conformity with the stipulations

of national funding agencies. Professionals from the speech and hearing field, medicine, philanthropists, social work and parents are the other members of the committee.

#### **Consumer Service**

- Citizens Charter
- Ethics Committee
- Public Grievances Redressal Forum

### **Official Language Implementation**

Schemes for giving incentives to successful candidates in Hindi exams/Hindi typing competitions were continued. Circulars, general office memos, forms etc. were issued in bilingual form. Annual report, audited statement of accounts, performance budget, word-a-day in Hindi, slogans etc. were all rendered in Hindi along with English. Library of Hindi books was kept for use. Competitions were conducted in Hindi during 'Hindi week'. 'Leap' office software (multilingual) was used at the institute.



## Other Programs

- Institute Day was celebrated on 10th October 2003. Diplomas were awarded to successful students of the first batch of Diploma in Hearing Aid and Earmold Technology on this occasion. Prof. B. K. Chandrashekar, Hon'ble Minister for Primary & Secondary Education, Government of Karnataka was the chief guest and Mr. Javagal Srinath, Test cricketer was the guest of honour. AIISH badges were made and distributed to staff and students. Awards, which were instituted during the year for the first time, were given away for best presentation in clinical conference and journal club.
- World Disabled Day was celebrated at the institute on 3rd December 2003. Her Worshipful Mayor Smt. Modamani inaugurated and participated in the program. She released the Citizen's Charter and distributed prizes to children participating in various competitions.
- Open day - 9th August was declared the institute Open Day. Mr. Ambarish, Cine Artist and Member of Parliament inaugurated the 'Open Day'. The public was educated on the process of speech production, and hearing as well as on disorders of speech and hearing. Open Day on 9th August will be an annual event every year hereafter on which day the public of the country are welcome to visit the institute to see the various activities.
- AIISH Gymkhana conducted the following programs -
  - a) Vidya Vikas Program was held on 12th May 2003. Under this program, children of group B, C and D staff members were given note books, bags, pencil boxes and tiffin boxes.
  - b) AIISH Durbar, an intercollegiate cultural festival was held from 29 - 31 January 2004. Mr. R. Mimicry Dayananda, Cine Artist inaugurated the DURBAR. Ms. Shyamala Prasanna, Secretary, Raaga Taranga and Ex-president, Inner Wheel Club was the guest of honor. Students from more than 20 colleges participated in the cultural events.

- c) Blood Donation Camps were held twice in the month of March in association with the K. R. Hospital, Mysore. Staff and students of AIISH donated nearly 75 bottles of blood.
- d) NSS activities are tailored according to the objectives and responsibilities of the institute without changing the motto of the NSS. In the year 2003-04, many innovative health programs were carried out along with other routine activities. Cultural activities, blood donation camps, charity work, health awareness programs, adventure activities and educational activities were conducted. Speech and Hearing camps were organized by NSS in Maharashtra. 232 hearing aids were issued in 4 camps, 247 ear impressions were taken for earmolds and 35 clients with speech-language disorders were identified in these camps.

## **AIISH in Media**

The mass communication media, both electronic and print, of the country gave excellent coverage for the activities and programs of the institute. In addition, the following exclusive coverage were given.

- An article on the institute in Vijaya Karnataka, a leading Kannada daily.
- A 60-second information feature during Deepavali festival on "Noise Pollution and Crackers: care to be taken" in October 2003 on the Siti cable and UMN channels. A recording of the Director's message, on Siti Channel and UMN on the necessity for avoiding noisy crackers.
- A live interview with the Director in the 'Phone-in-Program' on Doordarshan channel.
- An interview with the Director under the program 'Vedike' on 21st September 2003 on Siti and UMN channels.

- A documentary film on the activities of the institute including Director's brief on the E-TV channel.
- Press conference addressed by the Director on 14th January 2004 to highlight the 36th Conference of the Indian Speech and Hearing Association.
- An article in Prajavani and Deccan Herald on the facilities available in the Preschool Training Center and Therapy clinic at the institute.
- Two staff members participated in the 'Meet the Experts' program of AIR, Mysore.

## **INFRASTRUCTURE**

### **Department for Material Development**

The speech and hearing professionals need different types of material for different purposes. Materials are needed for sensitizing the public on the nature and sequelae of different speech and hearing disorders and on the facilities available in the country for the management of such individuals. Materials are required to educate our colleagues in the allied professions. Test materials in different languages, for the assessment and evaluation of different speech and hearing disorders are the priorities in speech and hearing discipline. The profession also needs resource material useful in the therapeutic management of children and adults with speech and hearing disorders and for training parents and family members of children with speech and hearing problems on home training strategies. Furthermore, the material has to be at a level that can be easily understood by the lay public. All these materials can be in either the print or the electronic media, or both. Preparation of such material needs focused attention of the professionals in this area as it is quite a creative job. Keeping this in mind, the institute established a new Department of Material Development to give a boost to the development of resource material in the field. The department was launched with 4 staff members.

## Extension of Ladies Hostel

His Excellency Mr. T. N. Chaturvedi, Hon'ble Governor of Karnataka laid the foundation stone for a new hostel for ladies on 26th May 2003. The building is expected to cost around Rs. 1.56 crores.

## Administrative Block

His Excellency Mr. T. N. Chaturvedi, Hon'ble Governor of Karnataka laid the foundation stone for a new administration building housing director's office and general administration on 8th January 2004. This project is being taken up at an estimated cost of Rs. 1.25 crores.

### New Department of Material Development

- Publications
- Documentary
- Media Publicity
- Museum on  
Communication  
Disorders

## Fiscal Matters

(Rs. in lakhs)

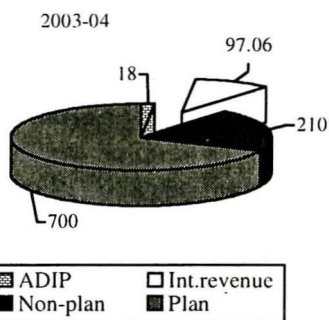
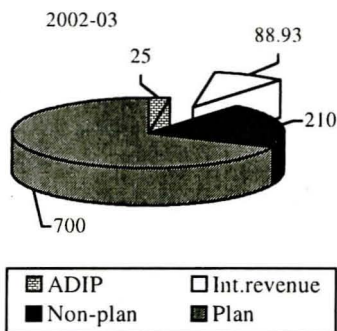


Figure 1: Fiscal matters



## **PUBLICATIONS OF AIISH**

Jayaram, M. (2003). Proceedings of the Seminar on Issues related to Disability in the Community. (Editor). AIISH: Mysore.

Jayaram, M. & Manjula, R. (2003). Proceedings of the Continuing Education Program on Augmentative and Alternative Communication. (Editors). AIISH: Mysore.

Jayaram, M. & Savithri, S. R. (2003). Research at AIISH: Dissertation Abstracts. Vol. 4 (Editors). AIISH: Mysore.

Jayaram, M. & Vanaja, C. S. (2003). Proceedings of the Continuing Education Program on Auditory Processing Disorders. (Editors). AIISH: Mysore.

Venkatesan, S. (2003). Toy Kit for Kids with Developmental Disabilities: User's Manual. Mysore: AIISH.

**Prof. M. Jayaram**  
Director

# DEPARTMENT OF AUDIOLOGY

The department of audiology is one of the major departments of the institute that deals with normal and deviant aspects of hearing. The activities of the department directly or indirectly enable the hearing-impaired to make maximum use of their residual hearing to facilitate better communication.

The objectives of the department are to (a) train postgraduate and undergraduate students in audiology, special education (hearing impairment) and diploma students in ear mold technology, (b) provide hearing evaluation, hearing aid trial and ear molds for hearing handicapped population, (c) provide listening training to the hearing impaired, (d) carry out research in the area of hearing disorders, (e) conduct seminars, workshops, short-term training programs and public education programs, (f) develop resource materials and (g) provide extension services in collaboration with other agencies. Clinical services are also extended to old age homes, hospitals, immunization centers and schools.

## ACHIEVEMENTS

- Introduction of New Courses
  - M.Sc (Audiology)
  - B.S.Ed (Hearing Impairment)
- Hearing Conservation Programs

## **TRAINING PROGRAM**

### **Initiation of M.Sc (Audiology)**

The institute is affiliated to the University of Mysore for the award of degrees. The department is involved in offering training to the students in the discipline of audiology and related sciences. The existing composite M.Sc (Speech & Hearing) course does not allow for an in-depth study of all the branches of audiology. Hence, it was felt necessary to introduce specialization in audiology for students at the post-graduate level. For the first time in the history of AIISH, M.Sc with specialization in Audiology was started on 4th August 2003. Sixteen candidates were enrolled for M.Sc (Audiology).

### **Initiation of B.S.Ed (Hearing Impairment)**

In order to enhance manpower in rehabilitation of persons with hearing impairment, a Bachelors course in Special Education (B.S.Ed Hearing Impairment) for B.Ed graduates was initiated. This program generates manpower to handle the large population of hearing impaired children in regular/special schools. It is designed to bring in focused specialization for the management of hearing impaired. Eight candidates were enrolled for the B.S.Ed program.

The Diploma course in Hearing Aid Repair and Earmold Technology was conducted in coordination with the Department of Electronics.

The diploma, undergraduate and post-graduate students were given theoretical and practical training in Audiology. Twenty-nine theoretical courses were taught besides guiding students in carrying out dissertations. The practical training was given in taking case history, evaluation and diagnosis of various hearing disorders. In addition, students were trained to carry out special tests for differential diagnosis of neurological and psychological disorders of hearing. They were also imparted practical training in hearing aid selection, prescription of conventional,

programmable and digital hearing aids in hearing aid fitting. Skills in making earmold, counseling and offering guidance to the needy clientele are also imparted through the clinical training program. In the listening unit, the students are trained to give auditory skill training to the hearing impaired. The B.S.Ed (HI) student trainees underwent teaching practice in special as well as integrated schools besides being given the necessary theoretical training.

## **Ph.D Program**

The following scholars are pursuing Ph.D. at the department.

- |                          |   |   |
|--------------------------|---|---|
| K. J. Ramadevi Sreenivas | : | Phonological profile in Kannada:<br>A study on hearing impaired.<br><b>Guide : C. Ramachandra</b>                               |
| P. Manjula               | : | Hearing aid selection using speech<br>intelligibility index.<br><b>Guide : Asha Yathiraj</b>                                    |
| Divya Menon              | : | Speech evoked mismatch negativity:<br>An objective measure of auditory<br>perceptual deficits.<br><b>Guide : Asha Yathiraj</b>  |
| Sivaprasad Reddy         | : | MMN in sensori-neural hearing loss - A<br>clinical measure of speech perception.<br><b>Guide: Asha Yathiraj</b>                 |
| M. P. Ravanan            | : | Computerized training modules in<br>Kannada for children with CAPD.<br><b>Guide: K. Rajalakshmi</b>                             |
| Animesh Barman           | : | Psychoacoustical profile in normal<br>individuals and individuals with<br>auditory dyssynchrony.<br><b>Guide: Asha Yathiraj</b> |



- U. Ajith Kumar : Perception of some temporal parameters of speech in individuals with auditory dyssynchrony.  
**Guide: M. Jayaram**

### **Dissertations and Independent Projects**

Ten dissertations and twenty-five independent projects were completed during the year.

#### **Dissertations Completed**

- Amala Agnes James : Auditory processing in children with history of otitis media.  
**Guide: Asha Yathiraj**
- Amit Gupta : Audiological profiling in adult Aphasics.  
**Guide: C. S. Vanaja**
- Chandini Jain : Effect of conductive mechanism on distortion product otoacoustic emissions.  
**Guide: Animesh Barman**
- Delcy Janet : Effect of music training on auditory perceptual skills.  
**Guide: Asha Yathiraj**
- Gurpreet Kaur : MMN for duration deviance in children with S.L.I. and delayed speech-language development.  
**Guide: Asha Yathiraj**
- N. M. Mamatha : Effects of repetition rate on ABR in adults & elderly.  
**Guide: Animesh Barman**

- Pawan Kumar Sah : Usefulness of transcranial CROS for clients with unilateral hearing loss.  
**Guide: P. Manjula**
- Rakhi Lakshmi : Hormonal influence on auditory Function.  
**Guide: Animesh Barman**
- M. Sandeepa : Hemispheric asymmetry in mismatch negativity.  
**Guide: C. S. Vanaja**
- Vimi Mathew : A probe into the subtle abnormalities in normal individuals with family history of hearing loss.  
**Guide: C. S. Vanaja**

### **Independent Projects Completed**

- Amita Koul : Effectiveness of DPOAE and TEOAE in hearing screening.  
**Guide: Animesh Barman**
- R. Anita : Effect of multitalker babble of different languages on the speech recognition in Kannada.  
**Guide: P. Manjula**
- B. R. Anjana : Assessment of brainstem dysfunction in individuals who stutter.  
**Guide: Animesh Barman**
- N. Banumathy : Effectiveness of environmental sound test in hearing aid selection for paediatric population.  
**Guide: P. Manjula**

- Binay Kant Choudhury : Picture speech identification test for children in Hindi.  
**Guide: Asha Yathiraj**
- Deepa Devasia : A comparison of efficacy of 3 digital hearing aids with trimmer controls.  
**Guide: K. Rajalakshmi**
- Gauri Tamane : Development of norms on duration pattern test.  
**Guide: P. Manjula**
- Gopeekrishnan : Hearing aid test protocol for sloping high frequency hearing loss.  
**Guide: Asha Yathiraj**
- Moumita Choudhury : Normative data for children on dichotic CV test - Revised CD version.  
**Guide: Asha Yathiraj**
- Peter Varghese : Contralateral suppression of DPOAE: Using different stimulus parameters.  
**Guide: Animesh Barman**
- Poornima Ram : Audiology desk reference in India.  
**Guide: K. Rajalakshmi**
- Regishia A : Effect of maturation on dichotic tests: A comparison of dichotic digit and dichotic CV.  
**Guide: C. S. Vanaja**
- Richa Deshpande : Self-handicapped scale written Vs. interview method.  
**Guide: C. S. Vanaja**

- Shereen Idiculla : Real ear sound levels in vocal and instrumental musicians.  
**Guide: P. Manjula**
- H. N. Shilpashree : Specificity of High Risk Register developed in India.  
**Guide: Asha Yathiraj**
- Shivani Tiwari : Maturation of pitch pattern in children.  
**Guide: C. S. Vanaja**
- S. Shivaprakash : Gap detection test development of norms.  
**Guide: P. Manjula**
- G. Sindhuja : A comparative study on stress perception between programmable BTE users and analog BTE users.  
**Guide: K. Rajalakshmi**
- B. Smeetha Behra : Comparison of SIS in the presence of noise using binaural body level hearing aids.  
**Guide: K. Rajalakshmi**
- Sneha Jacob : Comparison of threshold base prescriptive formulae for non-linear hearing aids.  
**Guide: K. Rajalakshmi**
- A. N. Sona : Review of literature on underwater hearing.  
**Guide: P. Manjula**
- S. Tanuja Jawale : Earmold materials: A Review.  
**Guide: K. Rajalakshmi**



His Excellency Sri. T. N. Chaturvedi, Hon'ble Governor of Karnataka watching a model of the newly constituted Therapy clinic.



Dr. A. B. Malaka Reddy, Hon'ble Minister for Medical Education being escorted by the Director for ISHA 36 program on 16th January 2004.





Dr. A. B. Malaka Reddy, Hon'ble Minister for Medical Education  
Sri Kumar Bangarappa, Hon'ble Minister for Municipal  
Administration at the venue of ISHA 36 program on 16th January  
2004.



Dr. A. B. Malaka Reddy, Hon'ble Minister for Medical Education  
inspecting one of the stalls at ISHA 36 exhibition on 16th January  
2004.

- K. Tenmozhi : Effect of noise in absolute and differential sensitivity.  
**Guide: Animesh Barman**
- N. Vijayakumar : Sweep frequency tympanometry.  
**Guide: C. S. Vanaja**
- C. S. Vijayalakshmi : A comparative study of the performance with conventional, analog and digital hearing aids with trimmer controls at different signal-to-noise ratios.  
**Guide: K. Rajalakshmi**

### **Dissertations in Progress**

- C. S. Vijayalakshmi : Auditory learning manual for Kannada speaking hearing-impaired children.  
**Guide: Asha Yathiraj**
- B. Smeetha Behra : Development and standardization of speech perception tests in Oriya for adults.  
**Guide: Asha Yathiraj**
- Moumita Choudhury : Effects of CV amplitude ratio on speech perception.  
**Guide: Asha Yathiraj**
- N. Vijayakumar : Comparison of tone burst ABR and ASSR in prediction of pure tone audiogram.  
**Guide: C. S. Vanaja**
- S. Shivaprakash : Auditory steady state responses in subjects with auditory dyssynchrony.  
**Guide: C. S. Vanaja**

- |                  |   |  |
|------------------|---|--|
| Varghese Peter   | : | Effect of age and age-related hearing loss on auditory processing.<br><b>Guide: C. S. Vanaja</b>             |
| G. Sindhuja      | : | Effects of cellular phones and standard phones on the physiology of hearing.<br><b>Guide: Animesh Barman</b> |
| K. Thenmozhi     | : | AC and BC ASSR in individuals with normal hearing and hearing impairment.<br><b>Guide: Animesh Barman</b>    |
| Sheeren Idiculla | : | Characteristics of tinnitus on residual inhibition.<br><b>Guide: P. Manjula</b>                              |

### **Short-term Training**

Short-term training programs on audiometry, immittance, evoked potential including ASSR, OAE, programming of digital & programmable hearing aids, hearing aids, and assistive listening devices were conducted in the department for speech and hearing and allied professionals.

## **CLINICAL SERVICES**

### **Hearing Evaluation**

The clinical services of the department have been extended to individuals aged from one hour after birth right up to 100 years. A total of 20,874 individuals were evaluated/screened for their hearing problems, out of which 7,511 were evaluated at AIISH and 13,363 evaluated/screened in outreach programs (Figure 1). Detailed evaluation was carried out on all the clients registered at the institute with the complaint of hearing loss and/or symptoms associated with hearing loss. Routine audiological evaluation included pure tone audiometry, speech audiometry and immittance evaluation. Measurements of auditory evoked potentials and otoacoustic emissions were

carried out whenever indicated. The newly procured equipment for measuring steady state evoked potentials contributed to a new dimension in hearing evaluation. This has been used extensively in deciding prospective clients for cochlear implants.

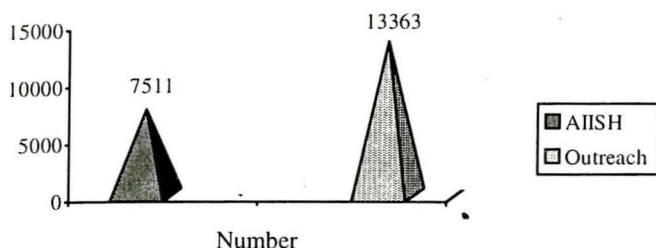


Figure 1: Clients screened/evaluated at AIISH/outreach centers

The department is also involved in prevention of hearing impairment in industrial workers. As a part of this activity, hearing evaluation was undertaken for employees in industrial set-up to monitor and prevent occupational hearing hazards. Baseline and monitoring audiograms were obtained from employees of various industries/organizations. Eighteen employees with hearing loss were identified out of 84 employees screened. A comprehensive evaluation is generally carried out for medico-legal clients following which the necessary certificates/reports are issued. The staff of the department also offered 'expert witness' in the court of law.

As a part of extension activities of project on 'Prevention of Deafness and Hearing Impairment', number of children tested in the department significantly increased. Referral sources included ministers, schoolteachers, doctors, health workers, social workers, anganwadi workers and old clients of the institute. The last group formed the largest source of referral. 2,253 copies of audiogram were issued for various purposes.

## Hearing Aids

Rehabilitation through amplification devices is one of the major activities of the department. Hearing aid trial was done on 5,477 individuals, out of which 2,996 were prescribed with hearing aids. Figures 2 and 3 present the details.

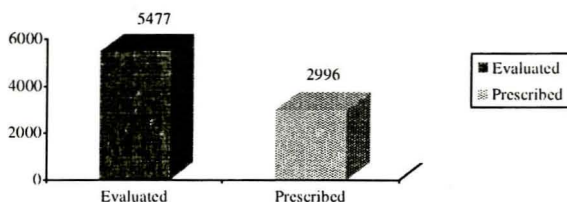


Figure 2: Clients evaluated / prescribed hearing aids

A large number of clients requested for digital hearing aids, a trend that has been observed since the last couple of years. Also, a general downward trend for choice of assistive listening devices (ALD's) was observed. Improved quality of hearing aids has enabled the clients to use hearing aids in situations where ALDs were required in the earlier days. The greater affordability of cost by clients for better comforts may be the other reasons for this trend.

The availability of the state-of-art equipment, such as equipment to measure auditory steady state responses, has made it possible to refer clients as young as two years for cochlear implants. This device has revolutionized rehabilitation by helping to move 'deaf' children to 'hearing' zone. The procurement of new equipment, Nucleus Portable Programming System (PPS) has helped the department to add a new dimension in the management of hearing-impaired who have undergone cochlear implantation.

Counseling and demonstration of hearing aid usage were carried out for needy clients. The use of communication strategies and speech reading for individuals with speech identification problems was recommended wherever necessary.



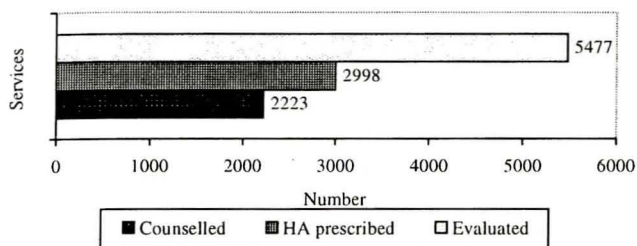


Figure 3: Clients at hearing aid section

## Earmolds

During the year, 3,094 ear molds were made for 1,629 clients. In addition, 460 'swimmers plugs' and 'earplugs' to be used as ear protective devices were prepared. The earplugs were used by industrial workers. As a part of the 'Central Prosthetic Lab', ear mould impressions were taken in camps as well as special schools. 599 ear molds were prepared from the ear impressions taken at the outreach centers. These molds were processed at the institute and distributed to the clients. Table 1 gives the detailed statistics. Figures 4 and 5 depict the details of earmolds.

No.of clients	1629
No.of impression taken	2850
No.of earmolds completed	3554
Custom made	- 3094
Special molds	- 460
No.of earmolds issued	2577
50% payment	- 1957
100% payment	- 620

Table 1: Details of earmolds

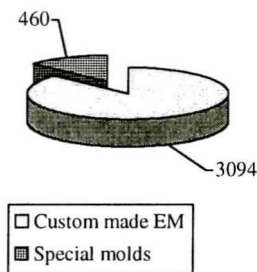


Figure 4: Custom and special molds

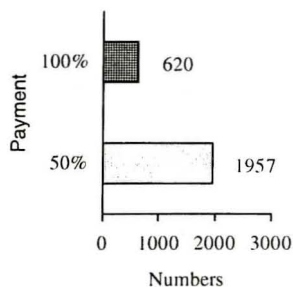


Figure 5: Earmolds on payment

## Listening Training Unit

In this unit, a total of 683 clients (Figure 6) were provided listening training. Of these, 676 individuals were using amplification devices. The remaining six were individuals with auditory processing problems. These clients received a total of 8,755 sessions of therapy for improvement of their listening skills. This training enabled the individuals to make better use of their residual hearing abilities. While the majority of clients received individual therapy a few were trained in smaller groups.

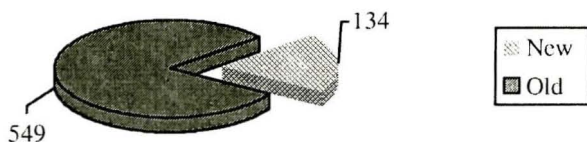


Figure 6: Clients at listening unit

## **RESEARCH**

### **Project Completed under AIISH Research Fund**

#### **Effect of Auditory Stimulation on Central Auditory Processing in Children with CAPD**

**Principal investigator: Asha Yathiraj**

There are a high percentage of children with central auditory processing problems who are unable to cope with studies and ultimately drop out of school. The objective of the project is to see if intensive auditory stimulation results in an improvement in the auditory perception of children with central auditory processing problems, which may help them to perform better in school situation. The results of this study throw light on the way in which children with auditory processing problems maybe rehabilitated with the use of specialized techniques, which can be easily incorporated in any clinical/school/home situation. The most suitable technique for providing therapy was indicated.

### **Projects in Progress under AIISH Research Fund**

#### **Evaluation Battery for CAPD in School going Children**

**Principal Investigator: K. Rajalakshmi**

Four common central auditory tests were evaluated on twenty-seven children with auditory perceptual problems. The results of the study indicate that a test battery approach is favored over single test. The necessary number of tests in a given battery is dependent on the sensitivity of each individual test.

#### **Late Latency Responses in Children with Learning Disability**

**Principal Investigator: C. S. Vanaja**

The research project was taken up with the aim of investigating cortical evoked potentials in children with learning disability and the effect

of auditory learning on cortical evoked potentials. Behavioral and electrophysiological testing was done on thirty control subjects and fifteen experimental subjects (children with learning disability) to identify children with auditory processing deficits. The material for auditory learning was prepared using "sound generator" software. Auditory learning program was completed in two of the five children. Both behavioural and electro-physiological tests were repeated on both the groups. Statistical analysis of the data and the report writing is in progress.

## **Project funded by Ministry of Health and Family Welfare**

### **Prevention of Deafness and Hearing Impairment**

**Principal Investigator: M. Jayaram**

**Co-investigator: Asha Yathiraj**

This project aims at carrying out research as well as to provide clinical services to prevent hearing impairment and communication disorders. The prevention is done at the primary, secondary and tertiary levels. Primary prevention of hearing impairment aims at the elimination or inhibition of the onset and development of the problem. Education of the general public on various causes of hearing impairment and communication problems, with the aim of preventing the occurrence of the problem is also carried out as a part of primary prevention. Different procedures are tried out to determine the most effective method/s in the prevention of hearing impairment and communication disorders. Techniques that are most appropriate for different setups are being evaluated in order to determine cost effective, sensitive and time effective method/s.

## **OTHERS**

### **Workshops / Conferences / Symposium Organized**

#### **Auditory Verbal Therapy**

Auditory verbal therapy (AVT) approach is adopted in the management program for children with hearing impairment. The

workshop focused on acoustical treatment of therapy rooms/classrooms and the specific methods of AVT. One hundred fifty speech and hearing professionals and special educators attended the program that was held on 22nd September 2003.

### **Digital Hearing Aids**

Persons with hearing impairment have greatly benefited from digital hearing aids. This workshop conducted with partial funds from M/s. Siemens Hearing Instruments focused on programming of digital hearing aids, and recent developments in the area. The workshop was held on 27th October 2003.

### **Bone Anchored Hearing Aids and Middle Ear Implants**

The aim of the seminar on Bone Anchored Hearing Aids and Middle Ear Implants was to educate speech and hearing students and professionals on the mode of functioning of these devices, selection of candidates, method of implantation and audiological findings in implantees. The workshop was held on 11th December 2003.

### **Prevention, Identification and Management of Hearing Impairment**

Five workshops on prevention, identification and management of hearing impairment were held as a part of the project on prevention of deafness and hearing impairment. Lectures and demonstrations were carried out in these workshops for pediatricians and M.B.B.S interns. Handouts and posters on the topic of workshop were also distributed.

### **M.S.Ed (HI) Syllabus Review**

The department prepared syllabus for M.S.Ed (HI). Syllabus for the new course to be instituted was revised as per the norms of Rehabilitation Council of India and University of Mysore. The workshop was held on 5th December 2003.



## **Workshop for Hearing Aid Users**

Hearing aid users and their family members were oriented on the methods of effective use of hearing aids. The program was held on 17th September 2003.

## **Papers Presented in Workshops / Conferences / Symposium**

The following papers were presented by the staff of the department in various workshop / conferences / symposium

Ajith Kumar U. (2003) : "Auditory performance with BAHA and middle ear implants" in the seminar on BAHA and middle ear implants held on 11th December at AIISH, Mysore.

Ajith Kumar U. (2003) : "Effects of noise and hearing health" in the workshop on effects of noise and noise induced hearing loss held on 10th December at AIISH, Mysore.

Asha Yathiraj (2003) : "Appropriateness of amplification as a means of success in early intervention" in CRE program on recent trends in early intervention held on 18th November at Dr. SRC Institute of Speech and Hearing, Bangalore.

Asha Yathiraj (2003) : "Room acoustics to facilitate auditory verbal training" in the workshop on auditory verbal therapy held on 22nd September at AIISH, Mysore.

Asha Yathiraj (2004) : "Identification and intervention of audiological and auditory processing disorders in children with learning disabilities" in the RCI-CRE program on needs of learning disabled children in schools held from 3 - 7 March at AIISH, Mysore.

Asha Yathiraj (2004) : "Identification, prevention and management of hearing impairment" held on 31st October at Spastic Society, Chennai, Tamil Nadu.

Gowramma I. P. (2004) : "Classroom assessment tools-Tips for teachers". RCI-CRE program on classroom needs of children with learning disability held from 3 - 7 March at AIISH, Mysore.

Manjula P. (2003) : "Devices that facilitate auditory verbal communication" in the workshop for hearing aid users held on 22nd September at AIISH, Mysore.

Manjula P. (2003) : "Protection of hearing from noise and hearing conservation" in the workshop on effects of noise and noise induced hearing loss held on 10th December at AIISH, Mysore.

Ramadevi Sreenivas K. J. : "Applied research in Kannada language" in the regional seminar on 'Kannada language and linguistics' held on 30th March at CIIL, Mysore.

Shivaprakash S. & Manjula P. (2003) : "Gap detection test and speech identification scores in auditory dyssynchrony" in National symposium on Acoustics held from 30th October - 1st November at Pune.

Vanaja C. S. (2003) : "Testing procedure and clinical applications of ABR and OAE" in the workshop on repair and maintenance of OAE and BERA held on 28th August 2004 at AIISH, Mysore.

Vinay C. M, Srikantha C, Sumesh K. & Animesh Barman (2003) : "Sensitivity of SAL in BC measurement" at National Symposium on Acoustics held from 30th October - 1st November held at Pune.

Vinay S. N. (2003) : "Effects of high-pass filtering on speech intelligibility in subjects with normal hearing and subjects with and without dead regions low frequencies" in British Audiology Association Conference held from 8 - 9 May at Cambridge University and Institute of Laryngology and Otology from 12 -13 May at London.

The following papers were presented at 36th National Conference of ISHA held at Mysore from 16 - 18 January 2004.

Amala Agnes James & Asha Yathiraj : "Auditory processing in children with history of otitis media".

Amit S, Karthik, N. & Vinay S. N : "Effect of cigarette smoking on TEOAEs".

Anitha R. & Manjula P : "Speech recognition scores in presence of multitalker babble of different languages".

Asha Yathiraj & Kavita E Mascarenhas : "Effect of auditory stimulation in central auditory processing in children with APD".

Karthik N, Aditee A. K. & Vanaja C. S : "Can MMN index short-term memory in audition"?

Moumitha Choudhury & Asha Yathiraj : "Age and gender effect on a dichotic CV test".

Shibasis Chowdhury, Mallika D Jusrut & Animesh Barman : "Age related changes in contralateral suppression of TEOAEs".

Shibasis Chowdhury, Manjula P. & Vinay S. N : "Hearing aids and dead regions in the cochlea: A case report".

Shivani Tiwari & Vanaja C. S : "Effect of scoring criteria results of pitch pattern test".

Sivaprasad Reddy, Ajith Kumar U. & Vanaja C. S : "Auditory brainstem responses evoked by speech bursts".

Sivaprasad Reddy, Ajith Kumar U. & Vanaja C. S : "Characteristics of ABR evoked by speech bursts".

Srikanth M, Saugat R. & Vinay S. N : "Impact of mobile phone use on outer hair cells: A pioneering Indian report".

Srikanth C, Sumesh K. Vinay Kumar C. M. & Animesh Barman : "Occlusion effect in bone conduction testing".

Vanaja C. S. & Manjula P : "ASSR: An objective tool for hearing aid selection".

Vanaja C. S : "Auditory processing disorders-An overview" in the CEP on auditory processing disorders.

Vanaja, C. S. & Manjula P : "ASSR: An objective tool for hearing aid selection".

Varghese Peter & Animesh Barman : "An insight into the generation of DPOAE".

Vimi Mathew & Vanaja C. S : "Microstructural analysis of auditory functions in individuals with family history of hearing loss".

Vinay C. M, Anjali G. & Vinay S. N : "Tuning curve audiogram".

Yatin M. & Vinay S. N : "Psychophysical tuning curve patterns and slope in subjects with normal hearing and low frequency dead regions".

## **Faculty Empowerment**

Some of the faculty members participated in enrichment programs.

- International short-course on rehabilitation strategies for the hearing impaired with hearing aids, cochlear implants and other devices on 31st October 2003 at Chennai.
- Advanced workshop on Cochlear implant conducted by M/s. Pika Medicals, Bangalore on 19th January 2004.
- Workshop on auditory verbal therapy at Mumbai from 11-12 February 2004 conducted by W.Estabrooks.

- Introductory workshop on Cochlear Implant on 15th January 2004 at Ramanashree, Mysore.
- Course on 'Hearing aid dispensing' conducted by Electronic Ears International - India and Hansaton Akastuk GmbH, Hearing Aid Academy, Germany held from 27 - 28 November 2003 at Bangalore

## **Public Education**

Orientation lecture on prevention, identification and management of hearing impairment was given to heads of schools and teachers, teacher trainees, parents of hearing aid users, nursing trainees, anganwadi workers, hearing aid users, industrial workers, PHC doctors and MIT students.

As a part of the public education program, to conserve hearing in children and adults, radio talk on 'Noise and its effects' was given during Diwali festival. The faculty also participated in an interview to highlight the causes and prevention of hearing loss at AIR, Mysore.

## **Equipment Procured**

**Earmold unit** - Polishing unit, Hydraulic press - flask press, Plaste dispenser, Flask press, Flask Spanners, Polymer materials, Polymerization unit, and Lab micrometer K9 installation.

Ear molds are used by individuals with hearing impairment to couple the hearing aid to their ears. The above set of equipment is used for processing of custom-made ear molds. The equipment is also used for making shells for in-the-ear and canal hearing aids.

**BTE hearing aids** - Rexton piccolo Gran-D byte, Bravo B1 Widex BTE Pinnacle PS DSP Digital BTE

These behind-the-ear hearing aids are procured for the purpose of prescribing devices to clients who require amplification. These hearing aids will be tried on hearing impaired clients who cannot be given medical



or surgical line of treatment. The most suitable hearing aid would be prescribed to the client.

### **Nucleus Portable Programming System (PPS)**

This programming system is used to map cochlear implants, which are surgically implanted into clients who do not benefit from regular amplification devices. This is the first such instrument that is being procured by the institute, thus making AIISH one of the few centers in the country providing facilities for cochlear implant mapping. The system is procured from Cochlea Inc., Australia.

### **DP Echoport Plus**

This instrument is used to measure otoacoustic emissions from the ear of clients. It provides information regarding the presence or absence of a hearing problem. The instrument is useful both in hearing screening programs as well as in diagnosis of hearing problems. This is procured from Otodynamics, U.K.

## PUBLICATIONS

Mukesh T. & Animesh Barman (2003). Effect of repetition rate on click evoked acoustic reflex thresholds in individuals with cochlear dysfunction. The Journal of the Indian Speech and Hearing Association, 10-14.

Sandeep M. & Animesh Barman (2003). Effect of duration of contralateral acoustic stimulation in suppression of TEOAEs. The Journal of the Indian Speech and Hearing Association, 23-26.

Siddartha, C. S. & Vanaja C. S. (2003). Multicomponent tympanometry in diagnosis of middle ear disorders. The Journal of the Indian Speech and Hearing Association, 17, 27-31.

Sreevidya B. A. & Vanaja C. S. (2003). LLR as a measure of temporal integration. The Journal of the Indian Speech and Hearing Association, 17, 32-39.

Vanaja C. S. & Manjula P. (2003). Middle ear resonant frequency in normal and otosclerotic ears: Effect of procedural variation. Journal of Speech Language Pathology and Audiology, 27(3), 158-162.



Prof. B. K. Chandrashekhara, Hon'ble Minister for Education, Govt. Of Karnataka presenting a Farewell memento to Mr. Dasappa, watchman who retired from service.



Sri Javagal Srinath, Test Cricketer, releasing the User Manual of the 'Toy Kit' for kids with Developmental Disabilities on the occasion of the 37th Anniversary program of AIISH on 10th October 2003.



Sri. Ambarish, Member of Parliament and Cinestar in the Naimisham Campus during the institute's 'Open Day' on 9th August 2003.



Sri. Ambarish, Member of Parliament and Cinestar inaugurating the institute's 'Open Day' on 9th August 2003.

# DEPARTMENT OF CLINICAL PSYCHOLOGY

The department of clinical psychology is primarily concerned with psychosocial sequelae of communication disorders. The clinical and research work at the department is defined with this perspective. The faculty of the department also participates in manpower generation program of the institute.

## TRAINING

The undergraduate and postgraduate students of speech and hearing are offered theoretical training in courses that lead to a better understanding of communication disorders. Practical training is also imparted in case history taking, testing and counseling. Training in administration of intelligence and personality tests, projective techniques in addition to scoring and analysis of various other psychological tests is also given. The students are trained in the management of psycho-social and behavior problems associated with communication disorders through behavior modification, bio-feedback, assertive training, group therapy, cognitive therapy, cognitive behavior therapy, psycho-drama guidance and counseling.

## ACHIEVEMENTS

- ❖ Project on CATS for KIDDS completed
- ❖ 'Toy Kits' for infants, toddlers, preschool kids and 'Training Guide' for parents, teachers and caregivers packaged and released.



## Ph.D Program

The following students are pursuing Ph.D at the department.

- Basavarajappa : Effectiveness of combination of behavioral intervention techniques on stress and general health among working women.  
**Guide: P. Kalaiah**
- Jagadish : The impact of parental attitude on temperament, adjustment and social maturity in hearing handicapped children.  
**Guide: S. Venkatesan**
- R. Jayaraju : Karnataka rajyada vivida karagruhagalalli eruva angavikala aparadhigala maanasika samasyegala ondu samagra adhyayana.  
**Guide: P. Kalaiah**
- K. Purushotham : Development and standardization of intervention strategies for number remediation skills in preschool and primary school children.  
**Guide: S. Venkatesan**
- H. H. Raju : A study of job satisfaction in relation to occupation stress and quality of life of employees in public and private sectors.  
**Guide: Jyothi S Madgaonkar**
- Rashmi Ramnath : Development of assessment devices for identification & remediation of reading problems in primary school children.  
**Guide: S. Venkatesan**
- Venkateshaiah : Angavikala makkala vyaktithva vikasakke poshakara mathu samajada prabhava - ondu adhyayana.  
**Guide: P. Kalaiah**

## CLINICAL SERVICES

The department provides clinical services to clients registered at the institute. The clients registered at the institute were evaluated on routine psychometry for differential diagnosis. Pre-vocational assessment is also carried out for adolescents and adults with communication disorders. Neuropsychological evaluation was conducted on individuals with neurolinguistic/communication disorders. Psychoeducational achievement testing and grade level assessment was done for children with scholastic backwardness and academic under achievement. Behavior assessment was carried out for children with problem behaviors/skill deficits. Family assessment was done on specific clients requiring family intervention programs. Figure 1 depicts the number of new clients and those monitored through follow-up evaluation.

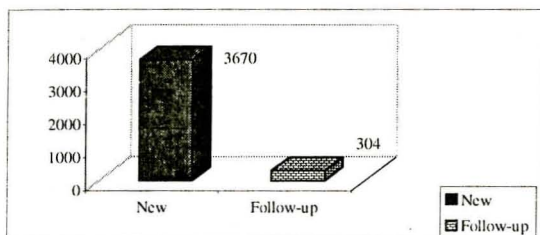


Figure 1: Overview of clients in Psycho-diagnostic clinic

Therapeutic services are provided as a routine for clients with various types of communication disorders. Home based and clinic based remedial educational training programs were provided for children with scholastic backwardness. Appropriate individual as well as family guidance and counseling were also carried out for these clients as and when necessary. Preadolescent and adolescent individuals with disabilities were given pre-vocational and vocational guidance after appropriate aptitude testing. Neuropsychological retraining programs including attention retraining, memory training or allied cognitive training programs were dispensed for individuals with neurolinguistic / communication problems. Individualized behavioral counseling, therapy and modification programs were carried out in clinics and home-based programs were given for clients

reporting behavior problems. Skill training programs on activities of daily living, functional academics, functional living skills, social or communicative skills were given for clients showing skill deficit behaviors. Table 1 presents details of type of therapeutic services offered to clients with communication disorders.

Particulars	Clients	Sessions
Behaviour therapy	142	628
Behaviour modification	92	702
Home based training program for MR/SLD	516	842
Remedial training for SLD clients	137	602
Intensive parent counseling program	84	317
Neuropsychological re-training program	22	56
Vocational guidance	31	46
Total	1024	3193

Table 1: Services offered at the department

### Other Services

All eligible and deserving clients were issued appropriate certificates stating the nature and extent of their disability. The various concessions and social/economic benefits including certificates for financial assistance, travel concessions, income tax rebates, special school admissions, exemptions from second language study in school, L.I.C. / U.T.I. schemes etc. were extended. Further, psychological reports were issued on request from professional peers, for academic and administrative purposes. Reports were provided for medico-legal clients and expert opinion was also provided during their court proceedings. Table 2 provides details of other services offered to clients.

Particulars	No. of clients
Certificate of disability for financial assistance	919
Certificate for railway concessions for persons with mental retardation.	98
Certificate to avail Income tax Rebate by parents of M.R.	52
Psychological reports for special school admissions	46
Certificate to avail language exemption in schools for special children	24
Certificate for LIC/UTI benefits for persons with mental retardation	18

Table 2: Other services provided

## RESEARCH

### Projects Completed under AIISH Research Fund

#### Caregivers as Teachers for Kids with Developmental Disabilities (CATS for KiDDs)

##### Principal Investigator: S. Venkatesan

This project attempted to investigate the efficacy of transmitting home based training programs for children with developmental disabilities by providing periodic guidance to parents or caregivers. The following is the outcome of this project:

- ❖ Development of standard home based training proforma, questionnaires to measure family burden, stress and coping styles, activity scheduling for kids, identification and remediation for problem behaviors.
- ❖ A 400-item "Activity checklist for preschool kids with developmental disabilities".

- ❖ A series of model "Toy kits" for infants (0-2 years), Toddlers (2 years) and Preschoolers (4-6 years) respectively have been assembled and put up for sale from the Institute. These kits are meant to go along with the "Activity checklist" mentioned above.
- ❖ "User Manual" on the "Toy Kits" written in simple and comprehensible English has been authored and published by the Institute for the benefit of parents or caregivers of kids with developmental disabilities.

## **Validation and Extension of Gessells Drawing Test for Children with Communication Disorders**

### **Principal Investigator: S. Venkatesan**

This in-house project completed validation and extension of a popular and easy-to-use "Gessells Drawing Test" as a measure of intelligence for kids with communication disorders. The test has been extended for use with children up to age twelve years. It enables easy measurement of mental age equivalence for diagnostic purposes in clinical practice.

## **Revalidation of Seguin Form Boards Norms as Measure of Intelligence for Indian Children**

### **Principal Investigator: S. Venkatesan**

This in-house project completed re-validation of norms on this popular test of intelligence used with young children. The new norms with additional sample inclusion of children with developmental disabilities are available for immediate use in routine clinical practice.



## **Projects in Progress under AIISH Research Fund**

### **Personality Correlates of Voice Disorders**

**Principal Investigator: S. Venkatesan**

**Co-investigator: M. Pushpavathi**

The objective of the project was to discover the personality and adjustment correlates of patients with organic, mutational as well as functional voice disorders. A comprehensive battery of eight questionnaires and interview schedules were used individually on a sample of more than 100 clients with voice disorders. The records on individual results have been fed into the computers and data analysis is in progress.

### **Behavioral Assessment & Learning Activities for Kids with Communication Disorders**

**Principal Investigator: S. Venkatesan**

The objective of the project is to develop and standardize computer assisted software based on JAVA back end program which would enable diagnosis, therapeutic planning and programming for kids with developmental disabilities. The software aptly named "BALAK-CD" is proposed to be in three modules, viz., diagnostic module, program planning module and therapeutic intervention module. The first module is almost finalized and photographs/slides required for embedding in the succeeding modules have been pictured, scanned and converted into the required software formats.

### **Scale on Mathematical Assessment for Remedial Teaching**

**Principal Investigator: S. Venkatesan**

This in-house project attempts to develop and standardize a grade based math assessment device for preschool and primary schools kids so as to enable diagnosis and program planning for identified children with math

related problems. The groundwork for the assembly of test items and initial collection of data as a pilot study has been completed.

## **Teaching Children with Arithmetic Delays: A Manual for Instructors**

**Principal Investigator: S. Venkatesan**

This ongoing material developmental activity being prepared as a corollary to the project on "Development of a Scale on Mathematical Assessment for Remedial Teaching" (SMART-KV). The proposed manual is expected to provide training guidelines and tips to math instructors dealing with special children as well as a host of activity based tutorials on learning and teaching arithmetic related concepts for preschool and primary school children.

## **OTHERS**

### **Papers Presented Workshops / Conferences / Symposium**

Jayarama G. (2003) : "Cognitive disorders in children with learning disability" at the RCI-CRE program on Needs of learning disabled children in classroom held from 3 - 7 March at AIISH, Mysore.

Venkatesan S. (2003) : "Behaviour problems in children with learning disability and educational policies for children with learning disability" at the RCI-CRE program on Needs of learning disabled children in classroom held from 3 - 7 March at AIISH, Mysore.

## PUBLICATIONS

Venkatesan S. (2003) : A survey on knowledge & opinion on rights, immunities & privileges for persons with mental retardation. Asia Pacific Disability Rehabilitation Journal, 15(1), 29-38.

Venkatesan S. (2003) : Toy kit for kids with developmental disabilities: user manual. AIISH: Mysore.

Venkatesan S. (2004) : Children with developmental disabilities: A training guide for parents, teachers & caregivers. Sage (India) Publications: New Delhi.

# DEPARTMENT OF ELECTRONICS

Engineering services in biomedical instrumentation and acoustic electrical systems, computers & peripherals and data & voice communication systems are offered by the department of electronics. In addition training is offered to graduate, post-graduate, diploma and doctoral students. The department also undertakes external consultancy services.

## TRAINING

The students of the undergraduate & postgraduate courses in speech and hearing, B.S.Ed & Diploma (HA&ET) were given theoretical training in biomedical instrumentation, applied electronics and acoustic technology of speech, language & hearing, computer applications in the education of hearing impaired, hearing aid repairs and electronic circuitry. Practical demonstration is also offered as a part of training program at the department.

### Achievements

The department is recognized as the sole authorized agency for electroacoustic evaluation of hearing aids distributed in served States and Union Territories by the Ministry of Social Justice and Empowerment.

The department is accredited as a national apprentice training centre by the Board of Apprenticeship Training (Ministry of HRD, Government of India).

Renovated the 315 KVA HT Yard and transformer center with state-of-art technology.

## **Short-term Training**

Six short-term training programs on servicing, calibration and repair of modern audiological equipments, repair and servicing of body worn hearing aids, repair and servicing of BTE hearing aids and biomedical instrumentation in Speech and Hearing were conducted for the speech and hearing professionals, biomedical engineers and technicians working in other speech and hearing institutes or centers.

## **Apprentice Training**

The Board of Apprenticeship Training (Ministry of HRD, Govt. of India) recognized the department and accredited it as a National Apprentice Training Center. Under this scheme, one graduate engineer in electronics and communication engineering, and three diploma holders in electronic engineering were trained as apprentices this year.

## **CLINICAL AND INSTRUMENTATION SERVICES**

The clinical activities of the department are carried out in collaboration with the other departments of AIISH. The department is involved in issue as well as servicing of hearing aids in addition to maintenance and calibration of diagnostic and research equipment.

## **Hearing Aid Issue & Electroacoustic Evaluation**

Department of Electronics is managing the issue of free hearing aids and solar battery chargers under Assistive Devices Implementation Program (ADIP) scheme of Ministry of Social Justice and Empowerment to the eligible individuals with hearing impairment. Table 1 gives the details of hearing aids issued in the report year.



Hearing aids	Number
Distributed at the institute	2345
Distributed in camps	974
Total	3319

Table 1: Number of hearing aids issued

Ministry of Social Justice & Empowerment has selected the institute as the sole authorized agency for electro-acoustic evaluation of hearing aids distributed in the State / UTs of Karnataka, Orissa, West Bengal, Arunachal Pradesh, Meghalaya, Tripura, Assam, Nagaland, Manipur, Sikkim and Mizoram. One hundred thirty six hearing aids were evaluated under this program.

### Hearing Aid Repairs and Servicing

Hearing aid repair and servicing is another major activity of the department where the service and repair of both body level and behind the ear (BTE) hearing aids are done at a nominal cost. Table 2 and Figure 1 show the number and type of hearing aids serviced. A camp was also held for servicing of body worn hearing aids, free of cost.

Type of hearing aid	Quantity
Body level hearing aids	845
BTE hearing aids	77
Total	922

Table 2: Number of hearing aids repaired

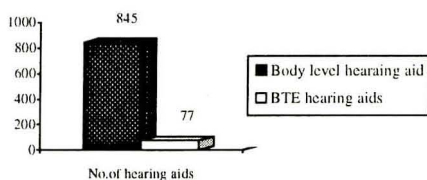


Figure 1: Number of hearing aids repaired.

## **Calibration, Repair and Servicing of Biomedical Instruments and Computers**

Calibration, repair and servicing of biomedical instruments and computers in the laboratories of different departments of the institute are the major activities of the department. Table 3 gives the details.

Particulars	Quantity
Instruments repaired	119
Instruments and systems calibrated	19
Computers & peripherals repaired	82

Table 3: Number of instruments repaired / calibrated

### **Repair and Maintenance of Electrical Installations**

The department is maintaining the electrical network of Naimisham and Panchavati campuses. All major electrical installations such as HT yard, centralized AC plant, lifts, automatic generator system, motors and pumps are maintained by the department. 124 major and 49 minor repair works related to electrical maintenance were done.

#### **Remote Monitoring of Power System**

This system is developed to monitor the functioning of a power distribution system from a distant control room. The DG room and the automatic generator switching system of the institute are located at one corner of the campus keeping in view the acoustic noise considerations. The system being developed enables us to monitor all the parameters of the DG system such as fuel level, load on the DG, temperature and also the source of power - either from DG or EB from a distant control room.

### **Acoustic Noise Measurement**

The department has got state-of-the-art equipments and expertise for acoustic noise measurement. The department conducted the following surveys on noise:

- Two external consultancy services for noise measurement of dot matrix printers of Wipro peripherals.
- Cracker noise survey at various streets and locations at Mysore during Diwali festival in October 2003.
- Traffic noise survey on KRS Road, Mysore, from AIR circle to the entrance of Ramakrishna Ashram was also carried out. The report was submitted to the Governor of Karnataka & on the basis of this report the authorities have declared this portion of the road as a silence zone.

## **RESEARCH**

### **Projects Completed under AIISH Research Fund**

#### **Development of software for Alternate and Augmentative Communication (AAC) in Kannada**

**Principal investigator: R. Manjula**

**Co-investigators: B. R. Chudamani & Ajish K. Abraham**

Most of the AAC software available in the market are imported and are in English language. The accent and the culture displayed in the pictures do not suffice our requirement and hence are inappropriate for use in Indian set-up. The software for AAC developed uses Kannada language and the pictures are carefully selected to match our culture and traditions. This software consists of a picture and word layout template, which facilitates direct selection of required symbols by the AAC user. The software can be used for clients who are non-verbal or those who require assistance for verbal communication. The department of speech pathology also coordinates this project. Clinical trials of this software are being carried out at the AAC unit, department of speech pathology.

## **Projects in Progress under Ministry of Social Justice and Empowerment, Government of India**

### **Development of FM Hearing Aid System**

**Principal investigator: M. Jayaram**

**Co-investigators: S. R. Srinivas & Ajish K. Abraham**

The objective of the project is to develop a complete, indigenous FM hearing aid system. The complete system has been tested and the results are satisfactory. The hearing aid works satisfactorily in both FM and environment modes as well as in the combined mode. AGC has been incorporated in the amplifier for all these modes. Clinical trials are in progress.

### **Peripheral Projects**

The department is identified by the Vishweshwaraiah Technological University, Belgaum and Vellore Institute of Technology, Vellore as a center for project work for B.E, B.Tech and M.Tech students. Students from the following institutions are carrying out projects in the department.

1. National Institute of Engineering, Mysore
2. Sri Jayachamarajendra College of Engineering, Mysore.
3. Vidya Vardhaka College of Engineering, Mysore.
4. Vellore Institute of Technology, Vellore.
5. Adichunchanagiri Institute of Technology, Chikmagalur.

## **OTHERS**

### **Workshops / Seminars / Symposiums / Organized**

The Department conducts workshops for bio-medical engineers, speech & hearing professionals and related professionals. The objective is to share the expertise acquired through the years in the field of repair, maintenance, calibration of bio-medical instruments in speech & hearing

and acoustics. Workshops on repair & maintenance of OAE & BERA effects of noise, its measurement and control were conducted.

The following handbooks were released during the workshops:

- Repair and Maintenance of OAE & BERA
- Measurement and Control of Noise

### **Papers Presented at Workshops / Seminars / Symposium**

The following paper was presented at 36th National Conference ISHA held from 16 - 18 January 2004 at Mysore.

- Ramya R.M, Sethu K, Manjula R. & Ajish K Abrahams  
"Behavioral analysis of action verb processing in children".

### **Infrastructure - Work Completed**

- Electrification, telephone cabling and computer networking new pre-school building.
- Development and Installation of state-of-art group hearing systems at the new preschool classrooms.
- Shifting and repair of 315 KVA transformer center and HT Y&
- Installation of ceiling mount multimedia projection system w motorized screen at AIISH Gymkhana auditorium.





Sri. Ambarish, Member of Parliament and Cinestar releasing a booklet on 'Guidelines for Prevention of Hearing Loss' on the occasion of the institute's 'Open Day' on 9th August 2003.



Sri. Ambarish, Member of Parliament and Cinestar observing and enjoying a speech-language therapy session.



Her Worshipful Mayor Smt. Modamani at the Therapy Clinic on the occasion of World Disabled Day on 3rd December 2003.



Her Worshipful Mayor Smt. Modamani inaugurating a program on World Disabled Day.

# Equipment Procured

## **Hardware Firewall**

A firewall is a system that enforces an access control policy between two networks. Hardware firewall is configured to protect against unauthenticated interactive logins from the outside world to our computer network. This helps to prevent vandals from logging into machines on our network and thus prevents hacking. With this facility, no outsider can access any data from our network and also we can restrict the Internet access to any site from inside. The firewall has also got a built in e-mail server.

## **IBM X-235 Series Server**

This server was procured to manage all the database and software related to computerization of AIISH activities. The Intel Xeon processor with a speed of 2.4 GHz controls this server with a 36 GB X2 hard disk capacity and a RAM capacity of 1 GB.

## **Aplab 20 MHz Pulse / Function Generator**

This equipment generates sine wave, square wave, triangular wave and saw tooth wave at any desired frequency from 1 Hz to 20 MHz. This can be used for generating pure tones and other test signals to check and trouble shoot the functioning of any functional block of any biomedical instrument. This can also be used to provide constant input to acoustic transducers when their electro-acoustic parameters are evaluated.

## **Aplab LCR Tester**

This equipment is used for precise measurements of inductance, capacitance and resistance. It has got a unique feature to test the performance of all these components at different frequencies.

## **Orcad Software for Electronic Design Automation**

This is one of the latest tools for design, simulation and analysis of all types of electronic circuits. With this tool, we can also design the component layout and printed circuit board for any electronic circuit. And such this is an excellent tool for identification of trouble shooting in an analog as well as digital circuit board.

## **Ceiling Mount Multimedia Projection System with Motorized Screen**

This is a specially designed multimedia projection system with short throw lens. With this projector we can get a projection area of 120'x160' even when the projector is kept at a distance of 10' from the projection screen. Moreover this projector has a luminance of 4500 lumens, which will enable us to view the projection even in the presence of ambient light. The motorized screen is specially made of glass-beaded fabric where the projected image is shown without any absorption of light by the screen.

# DEPARTMENT OF MATERIAL DEVELOPMENT

The All India Institute of Speech and Hearing was established in 1965. The objectives of the institute are - manpower generation in the field of speech and hearing, rehabilitation services to persons with communication disorders, scientific investigations on communication disorders and public education on various facets of communication disorders. In spite of the institute's commitment towards the cause of people with communication disorders, there is a dearth of information and awareness among the public towards prevention, early identification and management of individuals with communication disorders. Hence, the institute is geared towards enhancing awareness on communication disorders among the general public, allied professionals and parents.

AIISH being the premier institute in India, feels responsible to offer scientifically based tests and resource materials on rehabilitation for the speech and hearing professionals and special educators in the country. The cultural and linguistic diversity in India necessitates development of indigenous resource materials for evaluation and management. In order to meet these challenges, the Department of Material Development was proposed. The activities of the department were initiated in March 2003 with the following objectives:

## PROPOSED PLAN

- ❖ AIISH Publications
- ❖ AIISH Documentary
- ❖ Media Publicity
- ❖ Museum on Communication Disorders

- To develop different types of audio, video and print materials
  - for different disorders
  - in different languages and
  - for different age groups.



- To publish and disseminate the developed material across the nation
- To develop training strategies for allied professionals/paraprofessionals to use the developed materials.
- To serve as a nodal center in the country.
- To provide models, encourage and coordinate all projects on material development.

A permanent faculty from the institute was appointed as the coordinator for the department. A Production Manager, a Graphic Designer, and a Copywriter were also appointed on contract basis. The department started functioning from March 2003.

# **DEPARTMENT OF OTORHINOLARYNGOLOGY (ENT)**

The Department of Otorhinolaryngology is primarily involved in achieving the major objectives of the institute. The department offers theoretical and clinical training to students in specific areas of Otorhinolaryngology. Clinical services are also offered to individuals with communication disorders. Research and outreach activities are the other salient activities.

## **TRAINING**

The students pursuing undergraduate and post-graduate courses in speech and hearing are imparted theoretical and clinical training by the faculty of the department. The department is well equipped with state-of-the-art equipment with the help of which the students are given clinical demonstrations of pathology associated with speech and hearing disorders.

## **CLINICAL SERVICES**

Diagnostic services are offered to individuals with ear, nose and throat diseases with the help of recent technology such as endoscope, ENG and surgical microscope. The OPD unit is equipped to conduct minor OT procedures such as suction clearance of ear discharge, removal of foreign bodies and wax. Clinical services are extended to larger population through a separate unit (AIISH, ENT 'D' unit) housed at the city Government hospital and Krishnarajendra combined hospitals attached to the Mysore Medical College. The AIISH-D Unit runs OPD on every Thursday, conducts major and minor surgery since inpatient facilities are available at this unit. A total of 10,116 new clients with ear, nose and throat diseases

### **Achievment**

Medical and Surgical services at AIISH  
and 'D' unit at K.R. Hospital, Mysore

and 11,759 clients for follow-up evaluation were offered clinical services at the institute. A total of 12,245 new clients were offered clinical services at AIISH-D unit of K.R. Hospital, Mysore and 8,628 old clients were monitored through follow-up evaluation. Figure 1 gives the details.

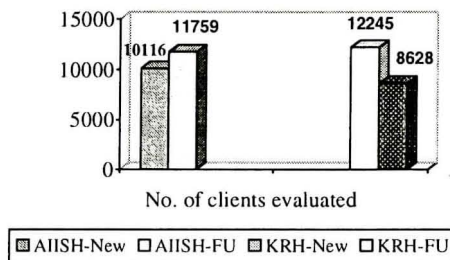


Figure 1: Number of clients at AIISH and K.R.Hospital.

## RESEARCH

### Projects in Progress under AIISH Research Fund

#### Comparison of Effect of Drugs in the Treatment of Tinnitus

**Principal Investigator: K. Rathna Sabhapathy**

**Co-investigator: H. Sundara Raju**

The objective of the study is to compare the effect of amino glycosides, peripheral vasodilators, benzodiazepanes, tricyclic antidepressants, systemic vasodilators and nicotin group of drugs in alleviating the symptoms of tinnitus without compromising on the auditory acuity. The outcome of the study is expected to throw light on the most efficacious drug with long-term effect on tinnitus.

## **Comparative Study of Operating Techniques in the Treatment of Otosclerosis (Stapedectomy V/s Stapedotomy)**

**Principal Investigator: H. Sundara Raju**

**Co-investigator: K. Rathna Sabhapathy**

The objective of the study is to evaluate improvement in hearing and other aural symptoms with two different surgical techniques, stapedectomy versus stapedotomy on patients with otosclerosis.

## **Effect of Chemical Cauterization for Small Central perforation**

**Principal Investigator: K. Rajeshwari**

**Co-investigator: H. Sundara Raju**

The objective of the study is to evaluate patients operated with conservative procedure of chemical cauterization for perforation of tympanic membrane. The outcome is measured with hearing re-evaluation and maintenance of hearing.

# DEPARTMENT OF SPEECH PATHOLOGY

The Department of Speech Pathology is one of the major departments of the institute. The department offers training to undergraduates and post-graduates in speech and language pathology, provides diagnostic and therapeutic services to persons with communication disorders and conducts research. The department is also involved in developing resource material for rehabilitation.

The department is involved in offering training to the students in the discipline of speech-language pathology and related sciences. Since the existing composite M.Sc (Speech & Hearing) course does not allow for an in-depth study of all the branches of speech pathology, it was felt necessary to introduce specialization in speech-language pathology for students at the post-graduate level. For the first time in the history of AIISH, specialization in Speech-Language Pathology was introduced at the post-graduation level. Sixteen candidates were enrolled for M.Sc in Speech-Language Pathology.

## Achievements

- ❖ Introduction of New Course (M.Sc Speech-Language Pathology)
- ❖ Development of Software for AAC in Kannada

## TRAINING

Academic training leading to B.Sc (Speech and Hearing), M.Sc (Speech & Hearing) and M.Sc (Speech-Language Pathology) degrees was carried out according to the schedule. The students were trained in theoretical and applied aspects of various speech, language and communication disorders. Training in clinical skills was also provided.



## Ph.D Program

The following scholars are pursuing Ph.D at the department.

Swapna Sebastian : Language skills in normals and learning disabled children.

**Guide: K. C. Shyamala**

Sapna Bhat : Code switching and code mixing in bilingual aphasics.

**Guide: K. C. Shyamala**

V. P. Vandana : Speech dimensions in dysarthria with lesions in different cerebellar loci.

**Guide: R. Manjula**

Gouri Shankar Patil : Aspects of stress and intonation in the speech of Broca's Aphasics.

**Guide: R. Manjula**

Satyapal Puri Goswami : Comprehension deficits in aphasics.

**Guide: K. C. Shyamala**

P. Sameer : Phonological process in Malayalam speaking hearing impaired children.

**Guide: K. C. Shyamala**

## Dissertations Completed

Vani Rupela : Manual for treatment of developmental apraxia of speech in Hindi (MTDASH).

**Guide: R. Manjula**

V.V.S. Sairam : Sub-clinical voice features in subjects with gastro-oesophageal reflux disorder (GERD).

**Guide: R. Manjula**

- Komal Khanna : Gestural cuing Vs. phonological priming word retrieval.  
**Guide: R. Manjula**
- Kripal Singh : A comparative study of lexical training normal subjects and subjects with aphasia  
**Guide: K. C. Shyamala**
- Sethu Karthikeyan : Reading and phonological awareness down's syndrome children.  
**Guide: K. C. Shyamala**
- R. Gopisankar : Voice changes following hormonal treatment in patients with endo-metriosiis.  
**Guide: M. Pushpavathi**

### **Dissertations in Progress**

- S. Tanuja Jawale : Scale for assessment of conversation: discourse impairment in individuals with traumatic brain injury.  
**Guide: R. Manjula**
- N. Banumathy : Behavioral correlates of speech processing in normal speakers under delayed auditor feedback (DAF).  
**Guide: R. Manjula**
- Sneha Susan Jacob : Training manual in Malayalam for children with developmental apraxia of speech  
**Guide: R. Manjula**
- Poornima Ram : Development and standardization of a assessment scale for SLP.  
**Guide: K. C. Shyamala**

- Binay Kant Choudhury : Assessment protocol for SLI children.  
**Guide: K. C. Shyamala**
- M. Sona : Development & standardization of BDAE-3  
in Malayalam.  
**Guide: K. C. Shyamala**
- Shivani Tiwari : Cognitive deficits in TBI adults.  
**Guide: Satyapal Puri Goswami**
- Richa Deshpande : Manual for anterior aphasic therapy in Hindi.  
**Guide: Satyapal Puri Goswami**

### Short-term Training

Short-term training programs on communication disorders and speech and language therapy were conducted for speech and hearing professionals and allied professionals.

## CLINICAL SERVICES

Clinical services were provided to 3,516 clients with communication disorders. Special clinics were initiated in September 2003. Figure 1 depicts the number of clients with communication disorders who were offered clinical services by the staff of the department. Children with mental retardation, hearing impairment and autism enrolled in the preschool program were also supervised.

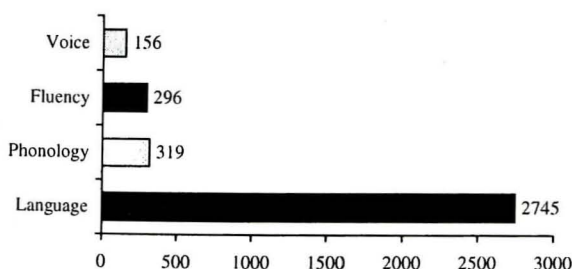


Figure 1: Clients in special clinics

### **Augmentative and Alternative Communication (AAC) Unit**

The department runs a special clinical unit, a unit for Augmentative and Alternative Communication. Identification and evaluation of candidates with communication disorders and intensive therapeutic intervention in AAC mode of communication were carried out. Twenty-six clients were evaluated and 596 therapy sessions were conducted.

### **Services for Clients with Maxillofacial Anomalies**

A team of speech-language pathologist, prosthodontist, plastic surgeon and a prosthodontic technician provided specialized clinical services for children and adults with maxillofacial anomalies. Figure 2 depicts the number of clients offered evaluation, therapy and prosthetic services.

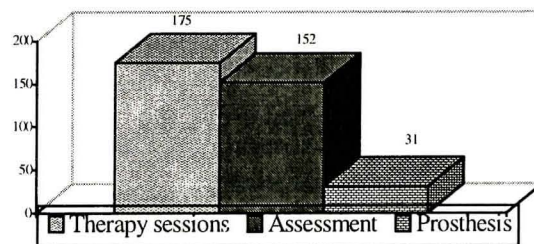


Figure 2: Clinical service for maxillofacial anomalies.

## **RESEARCH**

### **Projects Completed under AIISH Research Fund**

#### **A Tachistoscopic Study of Monolingual and Bilingual Normals and Aphasics**

**Principal Investigator: K. C. Shyamala**

**Co-investigator: M. G. Suchithra**

The objective of the study is to explore and compare the effect of hemispheric processing in bilingual normal adults and aphasics (in Kannada and English languages) and monolingual normal adults and aphasics. The study indicates hemisphere prominence for language processing. According to this study directional scanning effect may be stronger in monolinguals than bilinguals.

### **Projects in Progress under AIISH Research Fund**

#### **Standardization of Kannada Language Test (KLT) for Children**

**Principal Investigator: K. C. Shyamala**

**Co-investigators: Vijayashree & M. Jayaram**

The study is taken up to standardize and establish normative scores on KLT. This will be useful in identification of children with language disorders. It is an objective measure and aids the clinician in arriving at an accurate diagnosis and successful rehabilitation of the client. The analysis of the data is in progress.

#### **Ageing and Pathological Correlates of Voice**

**Principal Investigator: M. Pushpavathi**

**Co-investigator: M. Jayaram**

This project aims at analysis of acoustic parameters of normal and pathological voice using MDVP software. This also aims at identification and compilation of subtle voice changes across ages.



## **OTHERS**

### **Workshops / Conferences / Symposium Organized**

Workshop on Prosody - Assessment and clinical application was conducted from 4-5 November in collaboration with department of speech-language sciences at AIISH.

### **Papers Presented at Workshops / Conferences / Symposium**

The following papers were presented by the staff of the department in various workshop / conferences / symposium

Goswami S. P. (2004): "Specific learning disability: Dyslexia" at RCI-CRE program on Needs of learning disabled children in schools held from 3 -7 March at AIISH, Mysore.

Manjula R. & Gouri Shankar Patil (2003): "Declination of intonation in the speech of Broca's aphasics in a discourse mode" at the International seminar on applied linguistics in the global world held from 12 -14 December at New Delhi.

Manjula R. & Vandana V. P. (2003): "Age related changes in vowel space areas of normal males" at the National Symposium on Acoustics held from 30th October - 1st November at Pune.

Manjula R. (2003): "Analysis of intonation and its application" in Workshop on prosody - assessment and its clinical application" from 4-5 November at AIISH, Mysore.

Shyamala K. C. (2004): "Learning disability - conceptual issues" at the RCI-CRE program on Needs of learning disabled children in schools from 3 -7 March held at AIISH, Mysore.

The following papers were presented at 36th National Conference of ISHA held from 16 - 18 January 2004 at Mysore.

Banumathy N. & Manjula R: "Co articulatory variations in propositional Vs. non-propositional speech".

Bhat S. & Shyamala K. C: "Matrix language: Listener's perspective".

Deepashri Agarwal & Manjula R. "Lexical retrieval in bilinguals: Is it same or different in two different languages"?

Divya C, Manjula R. & Nuzha K: "Child directed speech of mothers of hearing impaired - Is it adequate"?

Manjula R. (2004): "Overview and current status of AAC in Continuing Education Program" on AAC.

Radhish Kumar, Pintu Kumar & Manjula R: "Effect of training on narrow transcription".

Rajsudhakar R, Venugopal, M. B. & Goswami S. P: "The lexical generative naming task in children with learning disability".

Ramya K. M, Sethu Karthikeyan, Manjula R. & Ajish K. Abraham. "Behavioral analysis of action verb processing in children".

Rehana Nandan V. V, Suma T. & Shyamala K. C: "The diagnostic scale for autism spectrum disorder (DSASD) - An assessment and intervention tool".

Sebastian S. & Shyamala K. C: "Speech and language skills in children with learning disability and normal children".

Sneha Susan Jacob & Shyamala K. C: "Metaphonological skills in monolingual and bilingual children".

Tanushree Saxena & Manjula R: "Parental awareness of augmentative and alternative communication".

## **Equipment Procured**

### **Nasometer II 6400**

Nasometer is used in the assessment and treatment of individuals with cleft palate, motor speech disorders, hearing impairment and functional nasality disorders. The nasometer consists of nasometer hardware as external module and nasometer II software. It computes and displays statistical analysis of mean nasalance, lowest or minimum nasalance, and highest or maximum nasalance. The equipment is procured from Kay Elemetrics Corporation, New Jersey.

### **Software on Multidimensional Voice Profile Model 5105**

This is a software option for computerized speech lab (CSL 4400). The MDVP software is a leading program for voice analysis. It provides multi-dimensional analysis of voice with graphic and numerical presentation of analysis results. MDVP analyzes new signals recorded from a microphone or signals previously stored. The software is procured from Kay Elemetrics Corporation, New Jersey.

### **Software on Motor Speech Profile Model 5141**

This is a software option for Computerized Speech Lab (CSL 4400). It provides multi-dimensional analysis of motor speech behavior including diadochokinetic rate, second formant transition, voice and tremor with graphic and numerical results. MSP is most commonly used with its built-in protocols to systematically analyze speech behavior. The software is procured from Kay Elemetrics Corporation, New Jersey.



Dr. Sunil N Dutt, Senior ENT surgeon, Head & Neck Department, St. Johns Medical College Hospital, Bangalore inaugurating the seminar on 'Bone Anchored Hearing Aids and Middle Ear Implants' on 11th December 2003.



The members of the University team which inspected the institute for according autonomy to the institute. The members are in the Library and Information Center of the institute.





Prof. C. Mudduveerappa, Principal, G.S.S.S College of Engineering, Mysore releasing a handbook on 'Measurement and Control of Noise' at the workshop on 'Effects of Noise-Its Measurement and Control' organized by the Department of Electronics on 10th December 2003.



Smt. Manjula, B.E.O. (Mysore-North) addressing the audience during the RCI-CRE Program on Learning Disabled Children conducted from 3-7 March 2004.



## PUBLICATIONS

Manjula R. & Vandana, V. P (2004): Age related changes in vowel space area of normal males. Proceedings of the National Symposium on Acoustics in NSA 2003.

Manjula R. (2004): Overview and current status of AAC. In Jayaram M. & Manjula R. (Eds.) Augmentative and Alternative Communication. AIISH: Mysore.

Shyamala K. C. & Sapna Bhat (2004): The neuro-linguistic perspectives of language acquisition, lateralization and bilingualism: A review in online Journal [www.languageinindia.com](http://www.languageinindia.com).

Shyamala K. C. & Sapna Bhat (2004): Reading and writing skills in multilingual and multi-literate aphasics, Reading and Writing: An Inter Disciplinary Journal, 17, 121-135.

Shyamala K. C. & Sapna Bhat (2003): Syntactic deficits in aphasics, International Journal of Dravidian Linguistics, 32(2), 151-170.

## DEPARTMENT OF SPEECH-LANGUAGE SCIENCES

The Department of Speech-Language Sciences is one of the major departments of the institute. It is involved in training, clinical, research and public education activities. A comprehensive clinical training program is offered to the undergraduate and postgraduate students. The students are trained to carry out various measurements of speech and language parameters with the help of state-of-art instruments. Clinical services include evaluation and management of clients with voice, articulation, language and fluency disorders. The staff of the department guide students to carry out therapeutic techniques for management of voice, articulation, language and fluency disorders. The faculty also offers guidance to special educators in planning activities for correction of speech and language skills in pre-school children with communication disorders.

Forensic voice evaluation and professional voice care are the other dimensions of departmental activities. Forensic voice evaluation for speaker verification is done to testify in the Court of Law .

Research in the areas of acoustics of speech, speech production, speech perception, speaker verification, language acquisition in children,

### Achievements

- ❖ Introduction of New Course (M.Sc Speech-Language Pathology)
- ❖ Programs on Voice Care for Professional Voice Users and Forensic Voice Evaluation.

Language regression in geriatrics and head injured and linguistic profiling of language is carried out through projects funded by AIISH and outside agencies.

## TRAINING

The faculty of the department are involved in teaching courses on anatomy, physiology and pathology of speech and language mechanism, phonology, fluency, voice and language-aspects of normalcy and disorders to undergraduate and postgraduate students.

As part of the practical training, the students are trained in case history taking, evaluation and management procedures for various speech and language disorders.

### **Ph.D Program**

#### **Ph.D awarded**

Ms. N. Sridevi was awarded the degree of Doctor of Philosophy by the University of Mysore for her thesis on "Acoustic characteristics of vowels in Kannada" guided by N. P. Nataraja

#### **Ph.D. thesis submitted**

The following scholars completed doctoral thesis in the report year.

- |                |   |  |
|----------------|---|--|
| N. Swapna      | : | Fine-grained auditory discrimination in normal children and children with learning disabilities (submitted).<br><b>Guide: S. R. Savithri</b> |
| M. Pushpavathi | : | Language and speech motor interference in children with stuttering (submitted).<br><b>Guide: S. R. Savithri</b>                              |

The following scholars are pursuing Ph.D at the department.

- T. Ananthi : Prosodic correlates of stuttering: Pre-post comparison.  
**Guide: S. R. Savithri**
- Arun Kumar B. T : An investigation into phonological difficulty and phonological encoding process in children who stutter.  
**Guide: M. Jayaram**
- P. S. Kalai Selvi : Analysis of voice in a group of Yakshagana folk artists.  
**Guide: M. Jayaram**
- H. Rohini : Prosodic perception in the brain damaged.  
**Guide: S. R. Savithri**
- M. Santhosh : Some perceptual and acoustic correlates of stuttering: Pre-post therapy comparison.  
**Guide: S. R. Savithri**
- K. Yeshoda : Importance of some spectral and temporal parameters in speaker identification.  
**Guide: M. Jayaram**

#### **Dissertations Completed**

- N. Chayadevie : Singer's Formant (Fs) in Indian Classical singers: Carnatic Vs. Hindustani.  
**Guide: K. Yeshoda**
- Jayashree C. Shanbal : Assessment of written language disability.  
**Guide: K. S. Prema**

- Jessy George : A cross language study of consonant perception.  
**Guide: S. R. Savithri**
- Mili C. Samuel : Modelling labial co-articulation in Malayalam.  
**Guide: S. R. Savithri**
- Namratha Mudkatte : Phonological awareness and reading in hearing impaired.  
**Guide: K. S. Prema**
- Ponnumani Somasundaram : Remedial training material in Malayalam.  
**Guide: K. S. Prema**
- K. M. Ramya : Development of voice disorder outcome profile (Voice-DOP) for an Indian population.  
**Guide: M. Jayaram**
- M. Ranganathan : Speaker verification in disguised speech.  
**Guide: S. R. Savithri**
- V. H. Savitha : Fundamental frequency changes in voice during puberty in an Indian population.  
**Guide: M. Jayaram**

#### **Dissertations in Progress**

- Amita Kaul : Vocal demands in teachers: Primary Vs. secondary schools.  
**Guide: K. Yeshoda**
- R. Anita : Computerized linguistic protocol for screening (CLiPS).  
**Guide: K. S. Prema**



Anjana B Ram	:	Genetics in stuttering. <b>Guide: S. R. Savithri</b>
Deepa Devasisa	:	Voice and speech characteristics in radio jacksies. <b>Guide: S. R. Savithri</b>
Gowri Tamane	:	Perception of rhythm in music in stutterers. <b>Guide: S. R. Savithri</b>
A. Regishia	:	Vocal characteristics during menstrual cycle: A study on singers. <b>Guide: K. Yeshoda</b>
H. N. Shilpashri	:	Remedial manual for language based reading disabilities - in Kannada (REM-Kan). <b>Guide: K. S. Prema</b>

### **Short-term Training**

Two programs on instrumentation in speech-language sciences were conducted to students from other speech and hearing institutes. Sensitization programs were held for allied professionals as a part of the project on 'prevention of communication disorders' on:

- Prevention, identification and management of communication disorders.
- Speech, language and hearing disorders.
- Identification and management of children with learning disability.

The 'Voice Care Center' of the department is involved in sensitization of professional voice users on issues of vocal hygiene, maintenance and effective voice use. Four hundred professional voice users were sensitized on voice care. Table 1 gives details of voice care programs.

Target group	No. of participants
Teachers and teacher trainees	190
Voice-over artists	10
Primary school children	104
Students and teachers of vocal music	29
Students of Law	67
Total No.	400

Table 1: Voice care program

## CLINICAL SERVICES

A total of 1531 clients were evaluated for voice, fluency, phonology and language disorders. Therapeutic guidance was offered to clients with communication disorders. Figure 1 gives the details.

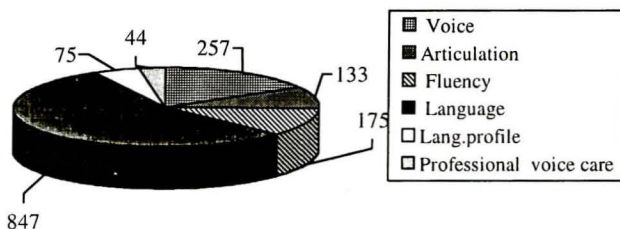


Figure 1: Details of clients evaluated for speech-language disorders

'Voice Care Center' of the department is involved in offering specialized services to professional voice users on care and maintenance of voice and vocal hygiene. The specialized center is equipped with the state-of-art instrumentation to measure voice parameters in professional voice users and to evaluate voice problems, if any. The center also provides consultancy services, counseling and guidance along with strategies for effective management of voice problems. Forty-four individuals were offered consultancy for evaluation and management of effective voice.

Forensic voice evaluation is another dimension of the departmental activity. The identity of a speaker/speakers is verified using acoustic and perceptual measures. The department carried out two forensic evaluations and submitted the report to Department of Police, Government of Karnataka.

Management of clients with communication disorders is strengthened with the services of Clinical Linguist. Seventy-five children with language disorders are profiled on their linguistic skills. The language profiles facilitate setting clear goals for rehabilitation. Periodic profiling helps in monitoring progress in children.

Clinical services are also extended to centers outside the institute through the project on 'prevention of communication disorders'. The main objective of the project is primary, secondary and tertiary prevention of communication disorders. The main activities include screening of infants and school children, material development, extension activities, sensitization program for public and other allied professionals.

## **RESEARCH**

### **Projects Completed under AIISH Research Fund**

#### **Relationship among Language, Reading and Mathematics - An Exploratory Study in Kannada**

**Principal Investigator: K. S. Prema**

**Co-investigator: S. Ramaa**

It is well known that arithmetic skills are dependent on language skills. Hence, the project aims at investigating the relationship among language-reading-mathematics in grade IV children of Kannada medium. Tests for reading, language and mathematics were developed and administered on IV graders. Analysis of data is completed. Report preparation is in progress.

## **Changes in Voice Attributes as a Function of Age in Singers**

**Principal investigator: M. Jayaram**

**Co-investigator: K. Yeshoda**

It is of interest to know the impact of age on singers as they are trained to use the speech mechanism in a highly specialized manner. Also, a study in this direction would reveal whether the physiologically efficient voice which is the result of formal training delays the age related changes in voice or whether the singers are equipped with coping strategies to maintain their voice quality. Hence, the project is aimed at discerning the effects of age on voice in Indian Classical singers (both Hindustani and Carnatic). The vocal recordings of noted two Hindustani and three Carnatic singers spanning four decades were acoustically analyzed using Dr. Speech and MDVP. The results indicated age related changes from first to fourth decade.

## **Projects in Progress under AIISH Research Fund**

### **Language Acquisition in Multilingual Children - A Survey**

**Principal Investigator: K. S. Prema**

**Co-investigator: Y. V. Geetha**

The project aims at identification of the relationship between multilingualism and language acquisition and the intensity of 'risk-factors' associated with multilingualism in children with language disorders. The results of the survey have their implications for framing language policy for intervention in children with delayed or deviant language. Demographic questionnaire on cultural/linguistic factors has been prepared. Checklist for evaluation of other risk factors generally associated with developmental communication disorders which include language development, problem behaviors and developmental factors has been developed for 9 different age groups with 3 month difference from 9 months to 36 months age. A questionnaire on language development - 3D LAT has been adapted for the study. Pilot study is completed.



## **Speech and Language Tests of AIISH (SALT-AIISH)**

**Principal Investigator: K. S. Prema**

**Co-investigators: S. R. Savithri & M. Jayaram**

The project aims at providing easy-to-use assessment tools and training material developed as a part of dissertation work of post graduate students at AIISH. These test and training kits would be useful to the speech language pathologists at different centers across the country. Prototypes of 68 tests and training materials classified under language, voice, articulation and fluency are completed along with list of items, material, audiotapes, instruction manual, scoring sheets and normative charts.

**Project in Progress under Department of Science and Technology,  
Ministry of Science and Technology, Government of India**

## **Prosodic Perception in the Brain Damaged**

**Principal Investigator: S. R. Savithri**

**Co-investigator: H. Rohini**

The project aims at investigating the processing of linguistic stress in patients with brain damage. Specifically the perceptual abilities of emphatic stress in Kannada speaking patients with left hemisphere damage and right hemisphere damage will be compared with their age-matched non-brain-damaged Kannada speaking subjects. It is hypothesized that individuals with brain damage process the stimuli differently on stress identification task as compared to non-brain-damaged subjects. Material for prosodic analysis has been prepared, analyzed and synthesized. Perceptual evaluation of synthesized phrases has been completed on normal population.



## **Differential Diagnosis of Stuttering and Normal Nonfluency**

**Principal Investigator: S. R. Savithri**

This in-house project aims at evolving a protocol for differential diagnosis of stuttering and normal nonfluency. This protocol can be used in the clinical set-up. Thirty-four speech samples of normal children and children with stuttering have been acoustically analyzed. Seven parameters are extracted as differential features between stuttering and normal nonfluency.

**Project funded by Ministry of Health and Family Welfare,  
Government of India.**

## **Prevention of Communication Disorders (POCD)**

**Principal Investigator: M. Jayaram**

**Co-investigator: K. S. Prema**

The main objective of the project is primary, secondary and tertiary prevention of communication disorders. The main activities include screening of infants and school children, material development, extension activities, epidemiological survey and sensitization program for public and other professionals.

## **Effect of Music on Communication Disorders**

**Principal Investigator: K. S. Prema**

**Co-investigator: S. R. Savithri**

Communication disorders in children always pose challenges to practicing clinicians. Amongst a host of communication disorders, autism is little understood from the perspective of management. The in-house project aims to investigate if training in listening to specific type of music facilitates communication in children with autism. The program is devised

on the principles of auditory integration training (AIT). The project also aims to examine if there exists specific profiles of children with autism who may or may not derive such benefits.

## **OTHERS**

### **Workshops / Seminars / Symposium Organized**

#### **Sensitization Programs on Voice Care**

Professional voice users are at greater risk to develop voice problems due to the high vocal demands of their professions. Majority of them continue to use voice irrespective of the state of their voice. This is largely due to the lack of information of vocal health and education. The Voice Care Center conducted series of programs on 'voice care' to teachers, voice-over artists, school children, students of vocal music and students of Law, who are professional voice users.

#### **In-house Workshop on Methods of Clinical Linguistics**

The purpose of the workshop was to impart knowledge in the area of clinical profiling to speech pathologists. Fifty participants attended the workshop in which six lectures/demonstrations were held on basic concepts of clinical linguistics, IPA transcription, and clinical profiling. The workshop funded by the institute was held on 25th July 2003.

#### **National Workshop on Prosody Assessment and Clinical Applications**

Fifty participants attended the workshop. Nine theoretical lectures followed by sessions for demonstration and hands-on experience was conducted from 4-5 November 2003. The institute funded this in-house workshop.

## **Workshop on Cross Language Perception of Vowels in Indian Languages**

This workshop was an extension of the seminar on cross language perception of vowels in Indian languages held on 21st February 2003 and was attended by sixteen participants including the departmental staff. The participants presented papers on perception of vowels in seven Indian languages, which was summarized. The workshop was conducted from 5 - 6 February 2004 and was partially funded by CIIL, Mysore.

## **RCI-CRE Program on Needs of Learning Disabled Children in Schools**

The 5-day rehabilitation education program sponsored by the Rehabilitation Council of India addressed the scholastic needs of children with learning disability. Special educators, teachers, speech-language pathologists, psychologists and parents from within and outside Karnataka numbering around sixty participated in the program. Issues of disability, definition, causes, signs and symptoms, classification, classroom and home based assessment and management, behavioral, cognitive and fine motor deficits in children with learning disability, curricular flexibility, welfare measures for education, alternative curricular options along with reflections from parents regarding the difficulties in mainstreaming children with learning disability were discussed. The program also offered practical demonstration and hands-on experience in early identification, classroom-based and home-based strategies for the management of children with learning disability. The exhibition - cum - display of teaching aids, CD's and software guided the participants in designing need based teaching aids that could be developed by teachers and parents. The panel discussion scheduled on the last day of the program with Block Education Officer, speech-language pathologist, clinical psychologist, parent and a teacher as panelists created a forum to exchange each one's views. The program was held from 3 - 7 March 2004.

## **Papers Presented in Workshops / Conferences / Symposium**

The following papers were presented by the staff of the department in various workshop / conferences / symposium

Jayashree C. Shanbal (2004): "Specific learning disability: Dysgraphia" in the RCI-CRE program on Needs of learning disabled children in schools held from 3 - 7 March at AIISH, Mysore.

Kalaiselvi P. S. & Ananthi T. (2003): "Measurement of rhythm in speech samples of normals and hearing impaired" in the workshop on Prosody assessment and clinical applications held from 4 - 5 November at AIISH, Mysore.

Kalaiselvi P. S. & Yeshoda K. (2004): "Interpretation of emotional prosody: A cross-linguistic study" FRSM 2004 held from 8 - 9 January at Annamalai University.

Prema K. S. (2003): "Introduction to Methods of Clinical Linguistics" in the workshop on Methods in clinical linguistics held on 25th July at AIISH.

Prema K. S. (2004): "Causes, characteristics and identification of children with learning disability" in the RCI-CRE program on Needs of learning disabled children in schools held from 3- 7 March at AIISH.

Prema K. S. (2004): "Prevention of learning disability" in the RCI-CRE program on Needs of learning disabled children in schools held from 3-7 March at AIISH.

Prema K. S, Savithri S. R. & Jayaram M. (2004): "Does music facilitate communication in children with autism?" Indo-US workshop on Autism spectrum disorders: A Challenging disability held from 10 -13 March at NIMH Secunderabad.

Ramesh Kumar Mishra (2003): "Introduction to methods of clinical linguistics, IPA transcription, sounds of worlds languages, profiling clinical linguistics" in the workshop on Methods in Clinical Linguistics held on 25th July at AIISH.



Rohini H. (2003): "An objective measurement of nasality, development of norms for nasalance and tonar" NSA - 2003 held from 31st October - 1st November at Pune.

Rohini H. & Sairam V. V. S. (2004): "Assessment of vocal fold regularity across different laryngeal pathologies" FRSM 2004 held from 8 - 9 January held at Annamalai University.

Sairam V. V. S. & Santhosh M. (2003): "Tests of stress and rhythm" in the workshop on Prosody Assessment and Clinical Applications held from 4 - 5 November at AIISH.

Savithri S. R. (2003): "Stress - its structure, assessment and clinical applications" in the workshop on Prosody assessment and clinical applications held from 4 - 5 November at AIISH.

Savithri S. R. (2003): "Rhythm - its structure" in the workshop on Prosody assessment and clinical applications held from 4 - 5 November at AIISH.

Savithri S. R, Santosh M. & Yatin Mahajan (2004): "Laryngeal dynamics in stuttering" FRSM 2004 held from 8 - 9 January held at Annamalai University.

Savithri S. R. & Santosh M. (2003): "Voicing contrast in Indian languages: Acoustic measurements" NSA - 2003 held from 31st October - 1st November at Pune.

Savithri S. R, Prema K. S. & Deepa M. S. (2004): "Lexical Recognition in Literates and Illiterates" FRSM 2004 held from 8 - 9 January at Annamalai University.

Savithri S. R, Prema K. S. & Shilpashri H. N. (2004): "Performance of learning disabled children on time warped words in phoneme/syllable stripped condition" FRSM 2004 held from 8 - 9 January at Annamalai University.



Savithri S. R, Rohini H. & Sairam V. V. S. (2003): "Fundamental frequency variation as a cue for word stress in Kannada" NSA - 2003 from 31st October - 1st November at Pune.

Savithri S. R, Rohini H. & Sairam V. V. S. (2004): "Intensity as a cue for stress perception in Kannada" FRSM 2004 held from 8 - 9 January held at Annamalai University.

Srikanth C, Vinay Kumar C. M. & Yeshoda K. (2004): "Word fluency measures in Kannada" FRSM 2004 held from 8 - 9 January at Annamalai University.

Yeshoda K. & Rohini H. (2003): "Measurement of acoustic correlates of stress in speech samples of normals and hearing impaired" in the workshop on Prosody assessment and clinical applications held from 4 - 5 November at AIISH, Mysore.

The following papers were presented at the 36th National Conference of ISHA held from 16 - 18 January 2004 at Mysore.

Alfina Begum, Priya G. & Savithri S.R: "Voice characteristics in a patient with Ortner's syndrome".

Anitha T, Anjali G. & Savithri S. R: "Perception of rhythm in stutterers".

Bhuvaneswari B, Rajini S. & Prema K. S: "Stroop effect in learning disability: Facilitation or interference?"

Deepa M. S. & Prema K. S: "Phonological awareness in learning disability - A journey into search for genetics".

Jayashree C. Shanbal & Prema K. S: "Linguistic and non-linguistic aspects of written expression in children".

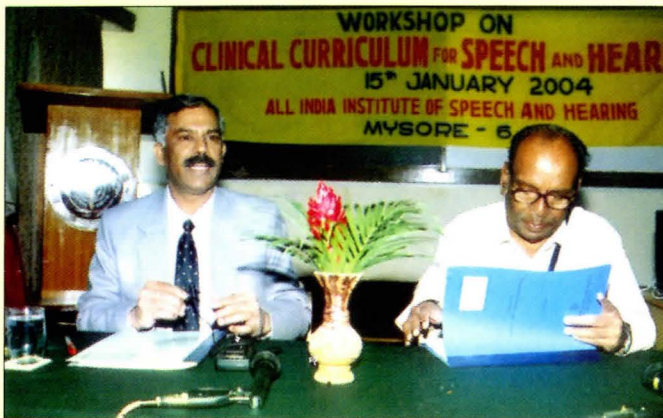
Namita S. K. & Savithri S. R: "Fundamental frequency and intensity control in singers and nonsingers".



Dr. B. S. Basavarajaiah, Special Officer, SJCE speaking at the inauguration of the workshop on auditory verbal therapy organized by the Department of Audiology on 22nd September 2003. Ms. Jaspal Choudhry, Head, Infant Center, EAR Society, Mumbai and a renowned expert in the area is also seen.



The Blood donation camp program (in coordination with K.R. Hospital, Mysore) being inaugurated by Dr. C. Rajan on 6th March 2004.



The Director addressing the participants of the workshop on Clinical Curriculum for Speech and Hearing. Dr. N. Ratna, the former director of the institute is seen.



Ms. Divya Menon addressing the participants during the workshop held for MBBS interns on Prevention, Identification and Management of Hearing Impairment and Communication Disorders. This was a part of the RCI week celebrations.

Santosh M. & Savithri S. R: "Effect of speaking rate on temporal and laryngeal parameters in stutterers".

Savitha S, Purushothaman G. & Prema K. S: "Cross linguistic comparison of SLI - Case study".

Savithri S. R, Rohini H. & Sairam V. V. S: "Duration as a cue for stress perception in Kannada".

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Seema M. & Savithri S. R: "Acoustic measures in the speech of children with stuttering and normal non-fluency: A key to differential diagnosis".

Smeeta Behera & Savithri S. R: "Voice characteristics of prospective and professional teachers".

Supraja A., Svetha V. & Savithri S. R: "Perception of rhythm in children with stuttering".

Venugopal M. B, Rajsudhakar R. & Savithri S. R: "Maximum phonation duration and s/z ratio in Dravidian children".

### **Development of Resource Materials**

- Public education pamphlet on 'Care of Professional Voice' was prepared which was released by Sri. T. N. Chaturvedi, Hon'ble Governor of Karnataka.
- Audiocassette for remediation of children with learning disability prepared using time warped technique.
- Slides prepared for screening children on reading skills



## **Public Education**

Faculty of the department participated in "Meet the Expert" program in AIR, Mysore to respond to the queries from public on language disorders in children and adults.

## **Equipment Procured**

### **Central Auditory Processing Kit**

Deficits in central auditory processing lead to language and literacy disorders. The auditory processing kit from Linguisystems Inc., is a set of training materials with sets of cards along with audio cassettes for training phonological awareness in children with learning disability. The kit is procured for clinical services.

### **Larynx and Lung Models**

The models are used in the student training and sensitization programs conducted by voice care center. They are procured from Desh Biological Works, Pune.

### **TAK Portable Wireless PA System**

TAK portable wireless public address system is used in the training programs conducted by voice care center and prevention of communication disorders project.

### **CSL 4500**

The software is used for acoustic analysis of speech to extract frequency, amplitude, spectrography and multidimensional voice profiles. The software is procured from Kay Elemetrics, New Jersey.



## PUBLICATIONS

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Rohini H. (2003). An objective measurement of nasality development of norms for nasalance and tonar. *Proceedings of the National Symposium on Acoustics*, 54.

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Savithri S. R, Prema K. S. & Deepa M. S. (2004). Lexical recognition in literates and illiterates. *Proceedings of Frontiers of Research on Speech and Music*, 199-202.

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Savithri S. R, Rohini H. & Sairam V. V. S. (2003). Fundamental frequency variation as a cue for word stress in Kannada. Proceedings of the national symposium on Acoustics, 53.

Savithri S. R, Rohini H. & Sairam V. V. S. (2004). Intensity as a cue for stress perception in Kannada. Proceedings of Frontiers of Research on Speech and Music, 195-198.

Srikanth C, Vinay Kumar C. M. & Yeshoda K. (2004). Word fluency measures in Kannada. Proceedings of Frontiers of Research on Speech and Music, 153-156.

## ACADEMICS

The main objective of the institute is to generate manpower in the field of speech and hearing. Therefore, professional training program at the undergraduate, postgraduate, doctoral and diploma levels is offered at the institute. The institute is affiliated to the University of Mysore for the award of degrees in speech and hearing. The courses are framed in conformation with the ethical standards of the Rehabilitation Council of India (RCI), a statutory body to monitor all the training programs in the area of rehabilitation.

The institute started postgraduate program in 1966 followed by the undergraduate program. Earlier the student strength was thirteen for B.Sc (Speech and Hearing) that is increased to fourty and for M.Sc (Speech and Hearing) increased from ten to twenty-five. The course focuses on two core areas - audiology and speech-language pathology. In the last thirty-five years, there has been a phenomenal growth in the field and explosion of information that no student can do justice studying two major areas. The course structure of the existing composite scheme does not give scope for inclusion of all the recent advances in the field of audiology and speech-language pathology. Therefore, in the academic year 2003-04 two specialization programs, M.Sc (Speech-Language Pathology) & M.Sc (Audiology) were started instead of a single composite program, M.Sc (Speech and Hearing). Specialization offers a better scope for in-depth pursuance of knowledge. These specialization programs also enable students to develop skills in research. The present intake of students to these specialization programs is limited to sixteen in each course.

### Achievements

- ❖ Introduction of New Course
  - M.Sc (Audiology)
  - M.Sc (Speech-Language Pathology)
  - B.S.Ed (Hearing Impairment)

## **TRAINING**

The institute is conducting the following diploma, undergraduate, postgraduate, and doctoral programs in speech and hearing.

1. B.Sc (Speech and Hearing)
2. M.Sc (Speech and Hearing)
3. M.Sc (Speech-Language Pathology)
4. M.Sc (Audiology)
5. Ph.D (Speech and Hearing)
6. B.S.Ed (Hearing Impairment)
7. Diploma (Hearing Aid and Earmold Technology)

B.Sc (Speech and Hearing) students are given intensive training in both the theoretical and practical aspects of speech, language and hearing to serve individuals with speech-language and hearing disability. The postgraduate program, apart from imparting knowledge and skills in the areas of speech, language and hearing, offers training to carry out research that would help in the upgradation of diagnostic and treatment methods. Students of Diploma in Hearing Aid and Earmold Technology are trained in the area of hearing aid servicing and earmold making. B.S.Ed (HI) students are trained in the theoretical and practical aspects of management of hearing impaired children in classroom.

## **INTRODUCTION OF NEW COURSES**

The highlight of the academic activities at the institute during the year was the introduction of new academic programs. The course structure of the existing composite scheme does not give scope for inclusion of all the recent advances in the field of speech-language pathology and audiology. Specialization offers a better scope for in-depth pursuance of knowledge in the field. Introduction of specialization is in tune with the working practices and nature of clinical activity to be pursued by the qualified professionals in speech and hearing in this country.

### ➤ **M. Sc (Audiology)**

The department of audiology is involved in offering training to the students in the discipline of audiology and related sciences. The existing composite M.Sc (Speech & Hearing) course does not allow for an in-depth study of all the branches of audiology. Hence, it was felt necessary to introduce specialization in audiology for students at the post-graduate level. For the first time in the history of AIISH, M.Sc with specialization in Audiology was started on 4th August 2003. Sixteen candidates were enrolled for M.Sc (Audiology).

### ➤ **M. Sc (Speech-Language Pathology)**

The departments of speech pathology and speech-language sciences offer training to the students in the discipline of speech-language pathology and related sciences. Since the existing composite M.Sc (Speech & Hearing) course does not allow for an in-depth study of all the branches of speech-language sciences and disorders, it was felt necessary to introduce specialization in speech-language pathology for students at the post-graduate level. For the first time in the history of AIISH, specialization in Speech-Language Pathology was introduced at the post-graduation level. Sixteen candidates were enrolled for M.Sc in Speech-Language Pathology.

The courses received excellent response attracting students from all over the country and abroad.

### ➤ **B.S.Ed (Hearing Impairment)**

A one-year program leading to the degree of B.S.Ed (Hearing Impairment) was introduced from the academic year 2003-04. This program generates manpower with focused specialization for classroom management of children with hearing impairment in regular/special schools. Tables 1, 2 & 3 give the details of admissions.



### ADMISSION DETAILS

Course	No. of students
Diploma (HA&ET)	5
B.Sc (Speech and Hearing)	40
M.Sc (Audiology)	16
M.Sc (Speech-Language Pathology)	16
B.S.Ed (Hearing Impairment)	10
Ph.D	3

Table 1: Details of admissions in 2003-04

The state-wise distribution of students admitted to various courses is as follows:

State	Courses / No. of students					
	Diploma	B.S.Ed (HI)	B.Sc	M.Sc (SLP)	M.Sc (Aud)	Ph.D
Andhra Pradesh	-	-	7	-	2	-
Assam	-	-	1	-	-	-
Bihar 1	-	2	-	1	-	-
Chandigarh	-	-	-	-	-	-
Chattisgarh	-	-	-	-	1	-
Delhi -	-	1	-	-	-	-
Foreign	-	-	3	-	-	-
Goa -	-	1	-	-	-	-
Gujarat	-	-	-	-	-	-
Jharkhand	-	-	-	-	-	-
Karnataka	3	9	5	2	-	2
Kerala	-	-	1	1	2	-
Ludhiana	-	-	1	-	-	-
Madhya Pradesh	-	-	1	-	-	-
Maharashtra	-	1	2	1	2	-
Meghalaya	-	-	-	-	-	-
Mizoram	-	-	1	-	-	-

Cont ....

State	Courses / No. of students					
	Diploma	B.S.Ed (HI)	B.Sc	M.Sc (SLP)	M.Sc (Aud)	Ph.D
Orissa	-	-	1	-	1	-
Punjab	-	-	-	1	1	-
Rajasthan	-	-	1	-	-	-
Tamil Nadu	-	-	10	9	3	1
Tripura	-	-	-	-	-	-
Uttar Pradesh	-	-	2	1	1	-
Uttaranchal	1	-	-	-	1	-
West Bengal	-	-	-	1	1	-
<b>Total</b>	<b>5</b>	<b>10</b>	<b>40</b>	<b>16</b>	<b>16</b>	<b>3</b>

Table 2: State-wise distribution of students admitted to different courses

Name of the course	Male	Female	Total
B.Sc I	15	25	40
II	11	25	36
III	13	22	35
M.Sc I	5	11	16
II	7	9	16
B.S.Ed.	4	6	10
Dip. in HA & ET	3	2	5
Ph.D I	2	1	3
II	3	1	4
III	1	3	4

Table 3: Distribution of Boys and Girls in different courses

	I Class	II Class	Pass	% of pass
M.Sc	21	4	1	100 %
B.Sc	20	5	2	96.43 %
Diploma (HA&ET)	9	3	1	86.6 %

Table 4: Brief summary of the Examination Results (2002-03)

A total of 26-post graduate, 27 undergraduate and 13 Diploma students successfully completed the training program.

The following students have secured the first five ranks in B.Sc, M.Sc (Sp. & Hg) and Diploma in HA & ET (Table 5).

	B.Sc (Sp. & Hg)	M.Sc (Sp. & Hg)	Dip. in HA & ET
1	Tanushree Saxena	Mili C. Samuel	Jaichin
2	Rohini Jagannath Rao	V.H. Savitha	Lalrinfeli
3	N. Karthik	N. Chaya Devie	Hema Kumara
4	Pooja Kanchan	Vani Rupela	H. K. Shashikala
5	Rajani Sebastian	Delcy Janet	G. Thirunavukkarasu

Table 5: Students who obtained ranks

## STIPEND / FELLOWSHIP

Stipend of Rs. 400/- pm, Rs. 650/- pm and Rs. 250/- was paid for B.Sc, M.Sc & Diploma in HA & ET students respectively during the year. Stipend of Rs. 400/- per month was also paid to B.S.Ed (HI) students. Fellowship of Rs. 5,000/- pm for first & second year and Rs. 5,600/- for third year was paid to Ph.D fellows. Table 6 gives the details.

Course	Stipend (Rs.)
B.Sc	400/month
M.Sc	650/month
Diploma in HA & ET	250/month
B.S.Ed (HI)	400/month
Ph.D 1st and 2nd year	5000/month
3rd year	5600/month

Table 6: Details of stipends

The allied medical and other subjects in B.Sc, which include Paediatrics, Pathology, Neurology, Epidemiology and Genetics were taught

by the visiting faculty from K.R. Hospital, JSS Medical college, BGS Apollo Hospital, PGIBMS, Chennai, and MAHE, Manipal. Details are presented in Table 7.

Courses	Name of the visiting faculty	Qualification
Neurology	Dr. Somnath Vasudev	M.B.B.S, M.D
Pediatrics	Dr. J. Krishnamurthy	M.B.B.S, M.D
Epidemiology	Dr. Sreekumaran Nair	Ph.D
Genetics	Dr. Sreekumari Srishailapathy	Ph.D
Pathology	Dr. A.L. Hemalatha	M.B.B.S, M.D
Psycholinguistics	Dr. Basanti Devi	Ph.D

Table 7: List of visiting faculty

## SHORT-TERM TRAINING

### Rehabilitation Sciences

Indhumathi, student of M.R.Sc from Holy Cross College, Tiruchirapalli underwent training in the field of disability, organization and office administration at this institute for a period of one month from 3 - 27 February 2004.

### WHO Fellows

Md. Abu Taleb & Mr. Md. Abu Zobair, WHO fellows from Bangladesh underwent a short-term training program on servicing calibration, maintenance and repair of modern audiological equipment at this institute for a period of two weeks from 28th April - 9th May 2003.

## OTHERS

### **Workshops / Seminars / Symposium Organized**

A workshop on "Clinical Curriculum" was held on 15th January 2004. The workshop was inaugurated with the opening remarks of Prof. M. Jayaram. Highlighting the purpose of the workshop, he spelt out the aims of the workshop as an attempt to define the type and depth of clinical competence expected in graduate and postgraduate students in speech and hearing. He stated that clinical work should be recognized at four levels: diagnostic, laboratory, therapeutic and community exposure.

Chairperson, Dr. N. Rathna suggested that a good clinical program should focus on skill building of the poorest student. He further said that skills to be imparted should be well defined and counseling should be given more importance. He emphasized on supervised clinical training.



## **THERAPY CLINIC**

The Therapy clinic is functioning as a coordinating center to offer clinical services to individuals with communication disorders. The scope and responsibility of the full-fledged multidisciplinary clinic is further expanded to include other related activities of clinical services. The new setup-houses all diagnostic and therapeutic services, including OPD's and services from a host of allied professionals under a common roof. This facilitates provision of the much-needed multi-disciplinary professional management. The team of visiting consultants for the current year includes neurologist, paediatrician, plastic surgeon, phonosurgeon, physiotherapist, occupational therapist and prosthodontist, making it possible to offer a multidimensional rehabilitation service to individuals with communication disorders.

### **The full-fledged therapy clinic offers**

- Clinical training program to undergraduate, postgraduate students in speech-language pathology and audiology in assessment and management of communication disorders in addition to documentation of clinical services. The students of B.S.Ed program also receive clinical orientation.
- Diagnostic and rehabilitative services to individuals with speech, hearing and language disorders.
- Orientation and short term training on various aspects of communication disorders to allied professionals.

#### **Achievements**

- ❖ Pre-school Program for Children with Communication Disorders
- ❖ Parent Support Groups

- Public education services.
- Resource materials for assessment and management in the rehabilitation program.
- Workshops / seminars related to rehabilitation issues.
- Preschool training programs for children with various communication disorders with the objective of mainstream education and further successful integration and
- Scientific and evidence based rehabilitation services by conducting research.

## **TRAINING**

### **Clinical Training Program**

The Therapy Clinic imparts clinical training to undergraduate and postgraduate students in speech and hearing in the management of clients with speech, language and hearing disorders. The students are trained to evaluate, assess and plan for management of communication disorders along with clinical documentation of client related information, preparation of lesson plans, work records and home based training programs.

### **Short-term Training**

Short-term training, orientation and demonstrations are provided as a routine to the professional and Para-professionals like PHC doctors, engineers, teachers of special and normal schools, social workers, journalists, administrative officers, graduate and post graduate students of nursing, physiotherapy and occupational therapy.

## CLINICAL SERVICES

Children and adults with various types of speech, language and hearing disorders are offered diagnostic and therapeutic services at the therapy clinic. In the report year, 14018 new clients received clinical services and 16495 clients were followed up for necessary services. Table 1 gives the details of diagnostic services.

New clients registered	14018
Clients for follow-up evaluation	16495
Hearing evaluation	7511
Speech-language evaluation	4928
Psychodiagnostic evaluation	3974
ENT evaluation	10116
Evaluation by clinical linguist	75
Evaluation at AAC unit	26
Evaluation for maxillofacial anomalies	31
Evaluation by visiting consultants	1131
Professional voice care	44

Table 1: Diagnostic services rendered at the institute.

A team of visiting consultants which include a pediatrician, neurologist, plastic surgeon, prosthodontist, phonosurgeon, physiotherapist and occupational therapist provide consultancy services for better patient care and management. Figure 1 shows services rendered by visiting consultants.

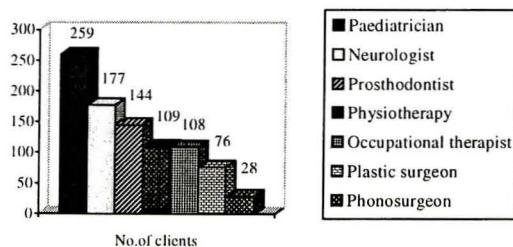


Figure 1: Number of clients evaluated by visiting consultants.

Therapeutic services are offered to the clients in individual sessions, group sessions, and pre-school training center and / or through home-based programs depending on the nature and severity of disorder. Student clinicians supervised by the faculty and clinical staff conducts therapy sessions. Counseling and home-based guidance programs tailored to suit the individual's requirements are also given to parents / caregivers. In addition, group therapy and group parent counseling sessions are conducted to facilitate self-help support groups. Table 2 and Figure 2 give statistics of therapeutic services.

Particulars	Total
Total number of: Clients enrolled	3422
Therapy sessions	30,666
Clients for guidance program	354
Group parent counseling sessions	27
Clients for correspondence therapy	193
Clients discharged	608
Certificates issued	93

Table 2: Statistics of therapy clinic.



Figure 2: Disorder-wise distribution of clients for therapy.

Three groups of children with hearing impairment, learning disability and stuttering were formed, in which 389 children received special services. A total of 1285 sessions were conducted in group therapy program. Figure 3 gives the details.





Some of the members of the organizing committee of 36th National Conference of the ISHA.



Students with the awards they won at ISHA 36.





The new Pre-School Center.



The AIISH Gymkhana in Panchavati Campus.

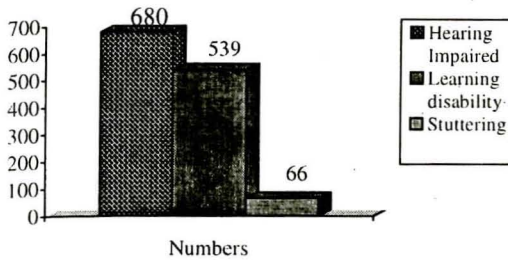


Figure 3: Statistics of group therapy program.

### Preschool Training for Children with Communication Disorders

The therapy clinic has been conducting group therapy programs for children with hearing impairment and mental retardation for the past two decades to facilitate group interaction, improve socialization and communication skills in these children. A regular center for preschool training program for children with hearing impairment, mental retardation, and cerebral palsy was started in 2002-03. A new preschool building with an area of 35,000 sq. feet was commissioned for use in October 2003. Twelve groups of children from different language background and different age groups have been initiated. The objective of this program is to identify and train preschool children at a young age to achieve successful integration of these children in the normal school at an appropriate age. The activities in the school were planned with specific curriculum framed for various communication disorders. The details of the preschool program initiated are as follows:

1. Clinical groups: Hearing impairment, Mental retardation, Autism
2. Age groups: 2-4 years and 4-6 years
3. Languages: Kannada, Malayalam and Hindi
4. Total duration: 4 hours everyday

Sixty children were enrolled into preschool program in the report year. Special educators and student clinicians conducted 2419 sessions in the report year.

Services of an itinerant speech therapist are provided to ensure effective implementation of speech-language therapeutic services beyond the clinical set-up. The itinerant speech therapist visits schools wherein children availing our speech-language therapeutic services are integrated. The therapist sensitizes the teachers towards the scholastic problems of the children with communication disorders and also visits the work set-ups and homes whenever required.

## **RESEARCH**

### **Project Completed under AIISH Research Fund**

#### **Associated Problem as a basis for sub grouping Stutterers**

**Project Investigator: Y. V. Geetha**

**Co-investigator: M. Jayaram**

The project aimed at sub-grouping children and adults with stuttering based on the concomitant problems that are frequently reported in stuttering literature. The present group of stuttering children did not present any associated language deficit. In both the groups of adult and children, family history of children (45%) and left-handedness (20%) was predominant followed by articulatory and auditory problems.

## **OTHERS**

### **Workshop / Seminars / Symposium Organized**

- ❖ One-day workshop organized for the faculty from speech pathology and speech language sciences regarding computerization of clinical services on 11th November 2003.
- ❖ One-day workshop organized for the parents of hearing impaired children on 18th November 2003. The workshop aimed at providing insight into different aspects of rehabilitation highlighting parental role.

- ❖ The following programs were organized for children attending therapy and their parents
- Summer camp for children attending preschool and therapy from 16th April - 14th May 2003.
- Open day for students/parents/cases on account of Helen Keller Deaf-blind awareness week from 22 - 28 June 2003.
- Celebrated 'World Disabled Day' on 3rd December 2003 by conducting sports and cultural competitions for children from preschool and clinic.

### **Papers Presented**

- Geetha Y. V. (2003): "Management of speech problems in hearing impaired" in the workshop for parents of children with hearing impaired held on 18th November at AIISH, Mysore.
- Geetha Y. V. (2004): "Identification and intervention of speech problems in children with learning disability" in the RCI-CRE program on Needs of learning disabled children in schools held from 3 - 7 March at AIISH, Mysore.
- Sangeetha M. (2003): "Facilities for the hearing impaired" in the workshop for the parents of children with hearing impairment on 18th November held at AIISH, Mysore.
- Sangeetha M. (2004): "Typical characteristics in children with learning disability - Live demonstration" in the RCI-CRE program on Classroom needs of learning disabled children held from 3 - 7 March at AIISH, Mysore.



## **Development of Resource Materials**

Assessment and training of individuals with disability requires various aids and material, custom made to different disorders, age and language groups. Various audio/visual aids, charts, booklets and handouts, which are required for skill development, were prepared in the report year.

- Documentary on therapy clinic in collaboration with AVRC, Mysore
- Preschool prospectus in Kannada and English
- Home training programs (14 Nos.) for specific skills
- Language training materials in various languages
- Language evaluation kits - 4 Nos.
- Preschool curriculum to train different skills was also prepared.

## **Equipment Procured**

### **Fiber Optic Laryngoscope**

The equipment is used for assessment of pharyngeal and laryngeal pathologies associated with communication disorders by ENT specialist, phonosurgeon. It is procured from Bel Medical Pvt. Ltd. Chennai.

### **Dental Chair**

Programmable dental chair, electrically operated, timer based automatic unit is used by prosthodontist and phonosurgeon during evaluation and treatment of individuals with maxillofacial anomalies.

### **Equipment for Physiotherapy and Occupational Therapy**

The set of equipment is used by physiotherapist and occupational therapist to facilitate overall motor development in individuals with physical and neurological problems associated with communication disorders.



## **Software for Speech and Language Training**

Speech-language pathologists to facilitate language and speech skills in individuals with communication disorders use software procured from Mayer Johnson Inc. and Bungalow software Inc. The sets are particularly useful in the AAC Unit.

## **PUBLICATIONS**

Geetha Y. V (2004). "Research needs in speech and hearing". All India Cross-Disability Convention, Ahluwalia H. P. S. & Singh J. P. (Eds.), RCI and Kanishka Publications: New Delhi.

## EXTENSION SERVICES

The All India Institute of Speech and Hearing is geared to offer clinical services not only in its high-tech, well-equipped institutional premises, but also in the community. Screening & identification, clinical services, issue of certificate of disability to avail concessions and benefits offered by the Government, and sensitization of allied professionals/public form the major activities of extension services rendered by the staff of the institute. Since communication disorders are more explicit in natural situations, the institute has many schemes through which clinical services are offered at the community level.

### Extension services of the institute are:

- Training public and allied professionals
- Clinical services at the community level
- Epidemiological research
- Development of resource materials

### The above services are rendered through

- a) Camps for screening and identification
- b) Public education through orientation and sensitization lectures, print and electronic media
- c) Distribution of aids/appliances with free servicing facility

The activities are carried out as a part of outreach program organized most often by the institute, at times in collaboration with philanthropic organizations and Governmental agencies. The project on 'prevention of deafness and communication disorders' funded by Ministry of Health and Family Welfare has the objectives of prevention of deafness and communication disorders at the primary, secondary and tertiary levels through which most of the extension services are being carried out. The departments of audiology and speech-language sciences are directly

involved in the above activities. Staff of the other departments and students are also involved in a few of the extension service programs whenever required.

## TRAINING

Speech, language and hearing disorders are generally not identified at an early age/stage because of its subtle manifestations. There is a great need to create awareness about its causes, characteristics, identification and management among the general public as well as allied professionals. Therefore, training programs are carried out to meet the above purpose on the following issues:

Prevention, identification and management of hearing impairment and communication disorders

Speech, language and hearing disorders-causes, characteristics and management

Identification and management of children with learning disability

Prevention of noise induced hearing impairment

Care and maintenance of voice

Table 1 shows the details of sensitization/training program conducted the report year.

Target group	No. of participants
Heads of schools and teachers	1250
Teacher trainees	340
Nursing trainees	103
B.Ed, D.Ed. & TCH students	290
Parents of hearing aid users	40
Anganwadi workers	40
Hearing aid users	70
Industrial workers	84
PHC doctors	20
MIT students	4
Voice-over artists	10
Primary school children	104
Students and teachers of vocal music	29
Students of law	67
<b>TOTAL</b>	<b>2451</b>

Table 1: Details of sensitization/training program

## COMMUNITY SERVICES

### Screening and Identification of Hearing Impairment and Communication Disorders

#### Rural Camps

The institute is located in the city of Mysore and is not easily accessible by the rural population. Hence, the institute conducts rural camps on a regular basis. The camps help in creating awareness in the public on facilities available to individuals with disability along with extending clinical services to their doorstep. Extension services through camps and screening programs facilitated identification of large number of individuals including newborn infant to a 100-year-old geriatric. Table 2 and figure 1 give the details of screening program held at various places of Karnataka

and other states and the nature of services offered at the community level.

Place	Cases	Referred	HA	EM	Certificate
<b>Karnataka (District wise)</b>					
Mysore	2739	317	6	6	417
Chamarajanagar	273	69	18	26	72
Coorg	63	16	0	66	10
Mandya	215	97	0	0	17
Bangalore	265	15	25	01	60
Bellary	430	94	100	43	24
Raichur	748	322	35	57	227
Tumkur	194	37	61	66	6
Total	4927	967	245	265	833
<b>Maharashtra</b>					
Nanded	95	0	93	145	0
Akola	57	0	39	34	0
Nagpur	176	0	100	62	0
Total	328	0	232	241	0

Table 2: Details of camps

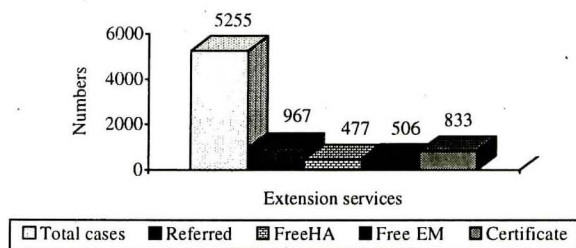


Figure 1: Details of camps.

### Camps in Collaboration with Governmental Agency

The staff of the institute participated in camps organized by the Department of Women and Child Welfare and Department of Primary



education Program (DPEP), where the hearing handicapped and mentally challenged were identified and issued certificates. These were in addition to camps organized by other agencies. Table 3 gives details of certificates issued.

Purpose	Number
<b>Hearing Impairment</b>	
Financial assistance	466
Admission to normal school	169
Disability certificate	63
Tax exemption	41
Others	44
Educational scholarship	117
<b>Mentally challenged</b>	
Financial assistance	919
Railway concessions	98
Income tax Rebate for parents	52
Psychological reports for special school admissions	46
Certificate for language exemption for special children	24
LIC/UTI deposits	18

Table 3: Details of disability certificates issued.

## Infant Screening

Early identification of disability is crucial for successful rehabilitation. Therefore, screening infants and toddlers is one of the major extension programs of the institute. High-risk registers, checklists and portable instruments such as hand-held hearing screeners and calibrated noisemakers are generally employed for screening. 7797 infants were screened for hearing impairment and speech-language disorders in immunization centers. 113 (1.45%) infants were referred for further evaluation.

## Screening of School Children

Incidence of communication disorders is generally more in school children than in infants and adults. Hence, visits were made to schools to identify children with communication disorders. Of the 7811 school children screened for hearing, speech and language disorders, 498 (6.4%) were referred to the institute for detailed evaluation. The services of an ENT specialist were also made available in all the extension activities. This has resulted in a large number of individuals being treated for medical problems of ear, nose and throat associated with communication disorders.

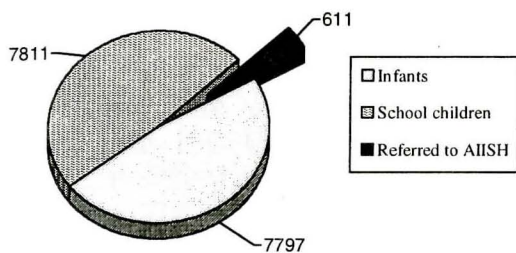


Figure 2: Details of screening

## Research

Extension service program has paved way to epidemiological research on communication disorders. The data obtained through camps and screening programs is being analyzed to note the prevalence of disability with reference to age, gender, demographic and other related variables. The research program aims:

- To throw light on the epidemiological distribution of individuals with communication disorders
- To study the prevalence of different types of communication disorders in infants, school children, industrial workers and geriatric population
- To identify the most appropriate test protocol for screening and evaluation of individuals with communication disorders in various age groups.

## **LIBRARY AND INFORMATION CENTRE**

Library and Information center of the institute is one of the central facilities that are availed by most of the staff, students and external members throughout the year. It is housed in a four-storeyed building of about 4000 sq. ft. floor area. The specially designed building in a quiet place with lush, green lawn and well-maintained garden create a pleasant and welcome atmosphere to the readers.

The AIISH Library and Information center is a documentation centre, which has an exclusive collection of specialized books and periodicals pertaining to communication disorders. Resource materials such as books, periodicals, abstracted periodicals, independent projects, dissertations, doctoral theses and audiovisual materials are available for reading. The Library has a collection of 13,263 volumes including national and international journals as on 31st March 2004. The entire collection is organized in a systematic manner according to the classification and cataloguing scheme that facilitates easy accessibility of books and journals to the readers.

The Library and information has a conventional wing and information technology (IT) wing to provide various kinds of services to the readers.

### **Achievements**

- ❖ Digitalization of Library
- ❖ Online Access of Catalogues

Conventional wing	IT wing
Latest books and periodicals	Internet facility (128 KBPs leased line)
Indexing and cataloguing services	Database and multimedia CDs.
Current awareness services	E-mail services
Inter-library cooperation	Library catalogue and data server (OPAC)
Effective reference services	Bar code scanner
Orientation and guidance for library use.	Printer services
Geographic services	Notices and display of new arrivals

Table 1: Conventional and IT wings of library

The book collection is bar coded and library is equipped with computers and printers. These facilities enhance the services of the library. The library catalogue entries are digitalized using LIBRIS software. Online public access catalogue has made retrieval of books expeditious and comfortable to the readers. Users can search the database via author's name, title, classification number and subject.

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**Total number of :**

Existing volumes	13263
Volumes added	513
Journals subscribed	59
Books/journals issued and consulted	97118

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Table 2: Statistics of library books/journals

Seventy external members are enrolled as members of AIISH library. AIISH Library is enrolled as a member of the Mysore City Libraries Consortium and Mylibnet.

## ENGINEERING SECTION

The training program, clinical services, research and the other welfare activities of the institute are increased in the year 2003-04. Consequently, there is an increase in the number of students enrolled in different courses as well as clients for clinical services. Since the infrastructural facility at the institute for the above was found inadequate, the engineering section of the institute has been very active in development of civil works and other amenities in Naimisham and Panchavati campuses of the institute. Details of civil work is enclosed in Table 1.

Particulars	Rs.in lakhs
Construction of preschool building	220.00
Construction of Ladies hostel building	
Construction of car parking near bus shelter	4.45
Asphalting work from canteen to library	2.55
Construction of compound wall and flagging concert to 'A' type quarters	2.64
Construction of additional room for A & B type quarters	8.88
Annual repairs and painting to A & B type quarters	1.05
Guest house renovation and civil work lobby Room No.2 & 3	0.64
Providing Pre school building model	0.30
Providing drain near E type quarters	0.78
Painting Kerb stone in Naimisham campus	0.22
Providing compound wall to 'C' type quarters	1.12
Approach road to Ladies hostel	0.33
Approach road to pre school	0.30
Weatherproof course above class rooms at Administrative Block	1.17
UGD work to Old therapy clinic - gents hostel	0.54
Painting to Ladies hostel room	0.45

Table 1: Details of civil work.



# HORTICULTURE

Following developmental works were carried out in Naimisham and Panchavati campus:

Particulars	Area
Developing Bermuda lawn around Canteen	1866 sft
Development of Therapy park	
(a) Lawn	26000 sft
(b) Plants and shrubs	350 sft
Development of lawn around preschool	
Mexican lawn	2446 sft
Bermuda lawn	1670 sft
Ornamental plants	100 sft
Development of lawn in front of Gents Hostel	1500 sft
Development of lawn adjacent AO existing amphitheatre in Sports complex	1800 sft
Tree planting Teak saplings	50 Nos

Table 1: Details of work completed during 2003 - 04

## PUBLICITY AND INFORMATION

The mass communication media of the country gave excellent coverage of the activities and programs of the institute.

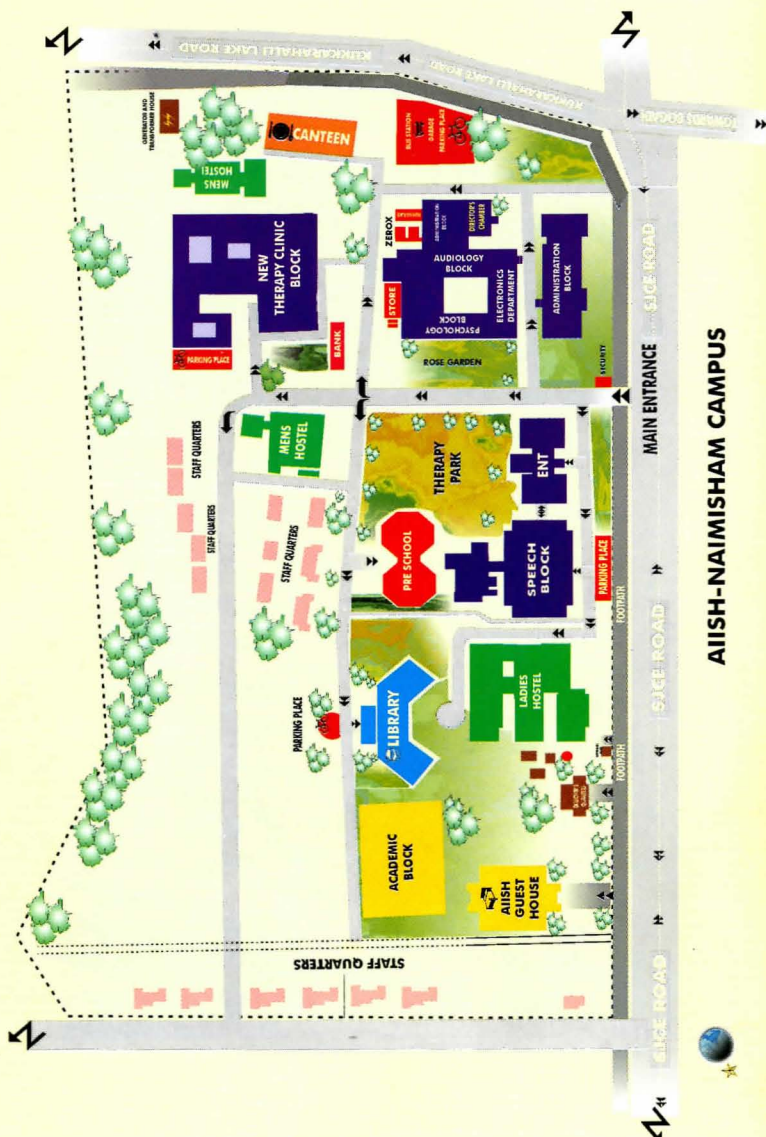
- ❖ His Excellency Sri T. N. Chaturvedi, Hon'ble Governor of Karnataka laid foundation stone for the ladies hostel by on 26th May 2004.
- ❖ Sri Ambarish, Member of Parliament and Cine Artist inaugurated "Open Day" on 9th August 2003.
- ❖ On the eve of 37th anniversary of AIISH-October 2003, Prof. B. K. Chandrashekhar, Hon'ble Minister for Primary and Secondary Education, Government of Karnataka inaugurated the program. Sri Javagal Srinath, test cricketer was the chief guest. Vijaya Karnataka, a leading Kannada daily, published an article on the institute.
- ❖ Siti cable and UMN channels telecasted a 60 second information feature during Deepavali festival on "Noise Pollution and Crackers: care to be taken" during October 2003 and also televised an interview with the Director under their program 'Vedike' on September 21st 2003.
- ❖ Doordarshan telecasted a live interview with the Director in 'Phone-in-Program'.
- ❖ Siti channel and UMN recorded the Director's message in connection with Diwali festival to avoid noisy crackers.
- ❖ A documentary film on the institute activities including Director's brief was relayed by the E-TV connection with Dasara festival.
- ❖ Her worshipful Mayor Ms. Modamani graced on the occasion of the 'World Disabled Day' on 3rd December 2003 and released the 'Citizens Charter' of AIISH.



Participants of the RCI sponsored National program on Disability Management for PHC Doctors.



Sri. J.V. Raja Reddy, I.T.S, DGM, RTTC, Mysore delivering the valedictory address at the Workshop on Repair and maintenance of OAE & BERA organized by the Department of Electronics on 29th August 2003.



# AIISH-NAIMISHAM CAMPUS

- ◆ His Excellency Sri T. N. Chaturvedi, Hon'ble Governor of Karnataka laid foundation stone for administrative block by on 8th January 2004.
- ◆ Press conference addressed by the Director on 14th January 2004 to highlight the 36th Conference of Indian Speech and Hearing Association being held at Mysore on 16 - 18 January 2004.
- ◆ Dr. A. B. Malaka Reddy, Hon'ble Minister for Medical Education and Sri Kumar Bangarappa, Hon'ble Minister for Municipal Administration inaugurated the 36th Conference of ISHA, Mysore.
- ◆ Prajavani and Deccan Herald publicized the facilities available in Preschool Training Center and Therapy clinic through media coverage and articles.
- ◆ Sri Mimicry Dayananda and Smt.. Shyamala Prasanna, Secretary, Raaga Taranga were the guests for AIISH Durbar 2004.
- ◆ Two staff members participated in 'Meet the experts' AIR program, Mysore.

Apart from the above, both print and the electronic media covered other activities such like blood donation camp, RCI-CRE program, voice care program, seminars, workshops and VVIP visits to the institute.



## **GYMKHANA**

AIISH Gymkhana is an association of all the staff and students of the institute. The Gymkhana is also a platform to foster, encourage, sustain and coordinate sports, art, cultural and literary skills for the purpose of recreation and cultural-social exchange among the members of Gymkhana. The AIISH Gymkhana received a grant-in-aid of Rs.50,000/- from the institute for conducting various programs in the year 2003-04. The following programs were conducted by AIISH Gymkhana in the year 2003-04.

### **AIISH 'Durbar 2004'**

AIISH Durbar is a platform for college students to showcase their cultural talents. An inter-collegiate cultural festival was held for the second time on 30th January 2004. Sri. Mimicry Dayananda inaugurated the program and Smt. Shamala Prasanna was the Guest of Honor. The competitions included half-an-hour variety program, painting, drawing, vegetable carving, fashion show, quiz, ek-minute and skit. The cultural and fine arts events at the festival witnessed intense competitions among students from 24 colleges of Mysore who participated in the festival. More than 1000 students attended the event. JSS Institute of Speech & Hearing bagged the overall championship.

### **Talents Day**

Talents day for the members of AIISH Gymkhana was arranged on 23rd August 2003. Twenty-five children participated in the program and exhibited their talents. Staff children who have secured distinction in the school/college examination were rewarded. Eight children were given certificates and cash award.

### **Gymkhana Library**

The Gymkhana Library subscribes to 12 magazines. There are 6 weekly, 5 monthly and 1 bi-monthly magazines at present. The staff and students have been utilizing the Library facilities.

## **Students' Welfare Fund**

Students welfare fund to meet medical and educational needs is instituted through AIISH Gymkhana.

## **Science Day**

Science Day was conducted on 28th February 2004. Smt. Jayashree Shanbag, Director, AIR inaugurated the program. Science bulletin was released. There were competitions such as general quiz, science treasure hunt, science ek minute, science quiz and puzzle solving.

## NATIONAL SOCIAL SERVICE (NSS)

The NSS unit of AIISH is involved in social service activities ever since its introduction in the institute. The objectives of the NSS are framed in conformation with the objectives and responsibilities of the institute i.e., to promote and maintain community's well-being. The following activities are carried out in the report year.

**Cultural Program:** Talents' day was conducted on 12th September 2003 in which 157 NSS volunteers participated.

**Shramadan Program:** Tree planting and preparation of play grounds in Naimisham and Panchavati campus.

**Community Service:** The NSS unit conducted speech and hearing camp in three districts of Maharashtra.

**Blood Donation:** Blood donation camps were held in which 55 volunteers donated blood.

**Educational Programs:** A special program for the needy students on core subjects of speech and hearing and Kannada teaching classes for the non-Kannada students of the institute were started. The student volunteers carried out this program for one hour on every weekend. Eighty students benefited through this program.

**Adventure:** A two-day trekking program to Kumaraparvatha, Subramanya, Dakshina Kannada was conducted from 21- 22 February 2004, in which 19 student volunteers and 6 staff members participated.

**Charity:** NSS volunteers visited old age home, special schools and orphanages. They shared experiences, participated in cultural activities and served lunch. Orientation was given on prevention, early identification and management of speech and hearing problems in the community.

## **OFFICIAL LANGUAGE IMPLEMENTATION**

The institute has been following Government directives on the implementation of official language at all levels of its activities. Staff members from the institute participated in the Training for Official Language Implementation Committee meetings (TOLIC). Several meetings were held to discuss various strategies for the implementation of official language. The following programs were implemented in the report year.

- Staff members who successfully completed Hindi examination were awarded Hindi Incentive Schemes.
- Competitions were held during 'Hindi Week' and the winners were awarded.
- Library of Hindi books was kept open for use by staff and students throughout the year. More books were added to the library. Hindi books for Prabodh, Praveen and Pragya were procured.
- Use of Hindi Leap office software on Computer

### **Official Language Correspondence**

The provisions of Clause 3(3) of Official Language Act 1963 were complied. Annual Report, Audited Statement of Accounts, Performance Budget, Circulars, General office memos, forms was rendered in bilingual form. Word-a-day in Hindi, slogans were written to encourage use of official language.

## **Clinical Services in Hindi**

- A total of 439 Hindi speaking clients were evaluated. 124 clients were offered therapy sessions and 211 sessions were held for preschool children.
- Citizens Charter was translated to Hindi.

## **Hindi Workshop / Conference**

Smt. H.P. Uma Saraswathi, Hindi Translator attended the South & South West Zone Official Language Conference at Cochin from 11 - 12 March 2004.



## CLINICAL SERVICES

### No. of clients reported at AIISH Age-wise Statistics

Age group	Male	Female	Total
0-5	1100	800	1900
5-10	1165	868	2033
10-20	1320	1300	2690
20-40	2075	1425	3500
40-60	1200	875	2075
60-80	875	550	1425
80+	220	175	395
Total	8025	5993	14018

### State-wise distribution of clients registered

State	No. of cases
Karnataka	9685
Kerala	2611
Tamil Nadu	952
Andhra Pradesh	728
Maharashtra	10
Uttar Pradesh	05
Bihar	02
Madhya Pradesh	05
Others	20
Total	14018

## Summary of clients evaluated in the year 2003-04

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### Total number of :

New clients evaluated at AIISH	14018
Clients for follow-up evaluation	16495
Infants screened	7797
Children screened in schools	7811
Clients screened at camps	5295
Industrial workers screened	84

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Total	51500
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### Details of extension services

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#### Extension Services

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### Total number of:

Infants screened	7797
Clients screened at camps	5295
Children screened in schools	7811
Referred to AIISH	498
Industrial workers screened	84
Free hearing aids issued in camps	477
Certificate of disability issued in camps	833

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### Clinical Services by Consultant Specialists

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Particulars	Total
Neurologist	177
Paediatrician	259
Phonosurgeon	28
Plastic surgeon	76
Prosthodontist	144
Physiotherapy	109
Occupational therapist	108
Total	901

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### Details of other services

Other Services	
Total number of: Clients evaluated for hearing aids	5477
Free hearing aids issued under ADIP scheme	3319
Custom earmolds and special earmolds prepared	3094
Clients for speech language therapy	3422
Individual therapy sessions conducted	30666
Clients for group therapy	389
Group therapy sessions conducted	1285
Clients for auditory verbal therapy	683
Sessions for auditory verbal therapy	8755
Clients for AAC	26
Sessions for AAC	596
Palatal prosthesis issued	31
Clients for behavior and psychotherapy	1024
Sessions for behavior and psychotherapy	3193
Clients offered medical services at the institute	977
Clients offered medical services at KR Hospital	20873
Hearing aid repair and service	922
Equipment repair and service	220
Certificate of disability issued	2057

### Summary of Therapeutic Sessions conducted at AIISH

Nature of Therapy	No. of Sessions
Individual therapy for speech-language	30666
Group therapy	1285
Auditory verbal therapy	8755
Behaviour and Psychotherapy	3193
AAC therapy	596
Total	44495

## Statistics of Clinical Services

Total No. of clients registered	1408
<b>Hearing evaluation</b>	7511
No. of ears with	11791
normal hearing	3147
conductive hearing loss	2220
mixed hearing loss	2678
sensorineural hearing loss	3746
No. of audiogram copies issued	2253
<b>Hearing Aid Trial</b>	5477
Clients for hearing aid evaluation	3854
Clients counseled	2223
No. of hearing aids prescribed	2996
Body level	2438
BTE Analogue	230
BTE Digital	49
ITC Analogue	30
ITC Digital	10
CIC Analogue	28
CIC Digital	14
Low cost digital	188
<b>Earmolds</b>	
No. of beneficiaries	1629
No. of earmolds issued on	2577
50% payment	1957
100% payment	620
No. of special earmolds made	460
<b>Speech-language evaluation</b>	4928
Language disorders	3592
Phonology disorders	452
Fluency disorders	471
Voice disorders	413
Professional Voice Care Unit	44
Forensic Voice Evaluation	2
Augmentative and Communicative Center	26

Language profile	75
Psycho-diagnostic clinic	147
ENT consultation	1016
Visiting consultants	901

### Age-Wise Statistics

#### Audiological disorders

Age group	Hearing		Hearing Aid		HAT		Earmolds	
	Evaluation		Trial		counselling			
	M	F	M	F	M	F	M	F
00-01	48	26	40	23	13	8	16	10
02-05	533	376	424	283	196	159	280	174
06-10	439	309	235	191	134	101	218	123
11-15	312	212	187	104	95	58	127	78
16-20	334	214	135	72	62	38	57	34
21-25	361	178	78	42	37	15	27	16
26-30	290	194	58	58	27	26	20	15
31-35	283	140	50	36	26	17	12	22
36-40	254	183	65	42	33	30	16	18
41-45	186	143	74	44	34	23	18	13
46-50	244	137	102	52	65	34	34	12
51-55	218	146	108	65	58	41	30	12
56-60	236	136	165	80	110	54	31	21
61-65	226	117	136	92	77	58	34	15
66-70	298	128	196	99	155	69	42	22
71-75	216	68	144	70	108	34	30	12
76-80	154	48	129	43	93	31	18	10
81-85	59	22	63	23	43	15	8	4
86-90	30	5	25	7	19	2	0	0
91+	8	0	13	1	7	0	0	0
Total	4729	2782	2427	1427	1392	813	1018	611
	7511		3854		2205		1629	
Grand Total 15199								



### Disorder-wise statistics at Psychodiagnostic clinic

Particulars	Total no. of clients
Aphasia	25
Articulation disorder	171
Autistic disorder	34
Cerebral palsy	24
Functional dysphonia	14
Hearing loss	954
Mental retardation	1195
Normal non-fluency	17
Specific learning disabilities	86
Speech & language disorders	694
Stuttering	377
Voice disorder	63
Others	16
Total	3670

### Speech-Language Sciences

Name of the disorder	No.
Voice	257
Articulation	133
Fluency	175
Language	847
Language profile	75
Professional voice care	44

## Speech Pathology

Name of the disorder	No
Language disorders	2745
Phonology	319
Fluency	296
Voice	156

### Therapeutic clients at Therapy clinic

Name of the disorder	Child	Adult
Auditory	1072	53
Fluency	113	276
Language	1747	132
Phonological	225	61
Voice	20	104

### Listening Training

Total number of cases seen	682
Total number of sessions	8755
Daily average	63
Number of DT cases	23
Number of new cases	134
Number of repeat cases	549
Number of cases discharged	4
Number of cases discontinue	30
Total number of working day	187
Parent counseling sessions	20

**AUTHORITIES OF THE INSTITUTE****EXECUTIVE COUNCIL****Smt. Sushma Swaraj**

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Hon'ble Minister for Health & Family Welfare  
Government of India  
Nirman Bhavan  
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**Sri. Kagodu Thimmappa**

Vice-Chairperson

Hon'ble Minister for Health & Family Welfare  
Government of Karnataka  
Vidhana Soudha  
Bangalore-560001.

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Member

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Government of Karnataka

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Multistoreyed Building

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Member

**Dr. S. Subramanyam**

Principal Secretary (H)

Government of Karnataka

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Member

**Dr. R. Seethalakshmi**

Director of Medical Education

Government of Karnataka

Ananda Rao Circle

Bangalore-560009.

Member

**One Head of the Department**

All India Institute of Speech and Hearing

Mysore-570006.

Member

**Prof. M. Jayaram**

Director

All India Institute of Speech and Hearing

Mysore-570006.

Member-Secretary



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Government of India  
Department of Health  
Ministry of Health & Family Welfare  
Nirman Bhavan  
New Delhi-110011.

Chairperson

**The Director General of Health Services**  
(or his nominee)  
Ministry of Health & Family Welfare  
Nirman Bhavan  
New Delhi-110011.

Member

**Sri. B. P. Sharma**  
Joint Secretary (H)  
Government of India  
Ministry of Health and Family Welfare  
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Member

**Sri. Rakesh Behari**  
Joint Secretary (FA)  
Government of India  
Ministry of Health and Family Welfare  
Department of Health  
Nirman Bhavan  
New Delhi-110011.

Member

## **Succeeded by**

### **Sri. Arun Sharma**

Member

Joint Secretary (FA)  
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### **Dr. S. Subramanyam**

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### **Prof. M. Jayaram**

Member-Secretary

Director  
All India Institute of Speech and Hearing  
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Former Vice-Chancellor  
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Bangalore-560068.

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**Nominee of Vice-Chancellor**  
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Member

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Mysore.

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Ram Manohar Lohia Hospital  
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Member

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Mansagangothri  
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Member

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Microprocessor Application Lab.,  
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Member

**Prof. M. Jayaram**  
Director  
All India Institute of Speech and Hearing  
Mysore-570006.

Member Secretary

## PERSONNEL

## New Appointments

Name	Designation
Sangeetha Mahesh	Clinical Supervisor
T. Dhanalakshmi	Clinical Assistant
Pranav Kumar Pravin	Clinical Assistant
M. Seema	Research Assistant
Rajesh Ranjan	Itinerant Speech Therapist
B. A. Sreedvidya	Speech Pathologist Gr.I
N. Sridevi	Lecturer in Speech Pathology
U Ajit Kumar	Lecturer in Audiology
I.P.Gowramma	Lecturer in Special Education
V. Manjula	Assistant Lecturer
C. Latha	Special Educator
Lakshmi	Special Educator
Asha Kiran	Special Educator
Rajani Soni	Special Educator
Elizabeth Antony	Clinical Assistant
Lisha Ann George	Itinerant Speech Therapist
Namrata M Mudkatte	Speech Pathologist Gr. I
Santhy P Kuruvilla	Lecturer in Electronics
B. N. Shobha	Special Educator
Elizabeth Antony	Clinical Assistant
Dr. G. Malar	Lecturer in Special Education.
Rasiabi	Special Educator
Ramesh Kumar Mishra	Clinical Linguist
Rizwan Pasha	Lecturer in Electronics
M. Sandeep	Lecturer in Audiology
S. Rakhi Lakshmi	Lecturer in Audiology
C.K. Suresh Babu	Security Officer
M.G. Manjuswamy	Graphic Designer



Name	Designation
C. Chandrashekar	Receptionist
K. P. Narasimha Prasad	Lower Division Clerk
Celine Martina	Lower Division clerk
Tina Sahela	Copy Writer
R. Srinivas	Production Manager
Kalai Selvi	Peon
	(on compassionate ground)

### **Project Appointments**

#### **Prevention of Deafness and Hearing Impairment**

Name of the staff	Designation
Dr. Lizzie John	ENT specialist
Dhanalakshmi	Project Assistant
T Jayakumar	Project Assistant
K. Satish	Project Assistant
B. A. Sreevidya	Project Assistant
S. Radha Krishnan	Project Assistant
N. Devi	Project Assistant
Amy Kunathur	Project Assistant
Amla Agnes James	Project Assistant
Rakhi Lakshmi	Project Assistant
Vimi Mathew M	Project Assistant
N.M. Mamata	Project Assistant

## **Prevention of Communication Disorders**

Name of the staff	Designation
Raj Kumar	Project Assistant
A. P. Subavathi	Project Assistant
C. Geetha	Project Assistant
N. Karthik	Project Assistant
M. B. Venu Gopal	Project Assistant
A. Aruldevi	Project Assistant

### **DST Project : Speech perception of prosody in patients with brain damage**

Name of the staff	Designation
M. Seema	Research Assistant.
V.V.S. Sairam	Research Assistant
V.V.S. Sairam	Research Officer

### **FMHA Project : Development of FM Hearing aids**

Name of the staff	Designation
H. N. Kumaraswamy	Technical Assistant
Vidya Mohan	Audiologist

## Projects under AIISH Research Fund

Name of the project	Name of the Staff	Designation
Effect of Auditory Stimulation in Central Auditory Processing in Children with CAPD	Kavita E Mascarenhas	Project Assistant
A preliminary investigation on caregivers as teachers for kids with developmental disabilities	S. Surma	Project Assistant
Standardization of Kannada language test for children	M.Nanjundaswamy	Project Assistant
Relationship among language reading & Maths-An explanatory study in Kannada	Dr.I.P.Gowramma.	Research Assistant
Aging and pathological characteristics of the voice	Sandeepkumar, Girish Chandra	Project Assistant Project Assistant
Changes in Voice attributes as a factor of age in singers	T Ananthi	Research Assistant
Evaluation Battery for Central Auditory disorders in school going children	Pranav Kumar Pravin Gopisankar R	Research Assistant Research Assistant Research Assistant
Personality Correlates of Voice Disorders	P. Purushotham	Project Assistant
Long Latency Evoked	M. Sandeepa	Audiologist

Name of the project	Name of the Staff	Designation
Potential in Children with learning disorders		
Speech Language test of AIISH	Jayashree C Shanbal	Project Assistant
Development and Standardization of Computer assisted software on BALAK - CD	Pavithra DV	Research Assistant
Language acquisition in Multilingual Children - A Survey	Mamatha Nath	Project Assistant

## PROMOTION

C. Kumaraswamy	Upper Division Clerk
G. H. Anandaram	Accountant

## DEPUTATION

H. S. Puttaswamachari	Administrative Officer
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## REPATRIATION

V. Srinivasan	Administrative Officer
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## **RESIGNATION**

Abraham Joby	Clinical Supervisor
P. Sameer	Research Assistant
Kundan Madhav	Clinical Assistant
Rajesh Ranjan	Itinerant Speech therapist
B. N. Balasubramanya	Jr. Technical Officer
Gowri Krishna	Speech Pathologist Gr. I
Arun Kumar Thangavel	Speech Pathologist
Amsaveni	Special Educator
Vinay S.N	Lecturer in Audiology

## **VOLUNTARY RETIREMENT**

Dr. Basanti Devi	Lecturer in Linguistics
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## **SUPERANNUATION**

Dasappa	Watchman
Kannappan	Watchman

## **DEATH**

P. Ramaswamy	Cook
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**APPENDIX 4**

**ALL INDIA INSTITUTE OF SPEECH AND HEARING**

**MYSORE 570 006**

**AUDITED STATEMENTS OF ACCOUNTS**

**FOR**

**THE YEAR ENDED 31<sup>ST</sup> MARCH 2004**

Edited and scrutinized by

Sri S.L. Vijaya Narasimha

Prepared by

Smt B.V. Jyothi

Computerized by

Smt N. Parimala

**ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006 - (LATEST)**  
**AUDITED STATEMENTS OF ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2004**

**INDEX**

Sl.No.	Name of the statement	Page No.
1.	Balance Sheet as on 31.3.2004 - Liabilities and Assets	1 - 2
2.	Income and Expenditure Account - Expenditure and Income	3 - 4
3.	Receipts and Payments Account - Receipts and Payments	5 - 7
4.	Details of Internal Revenue - Annexure-1	8 - 9
5.	Details of Salaries and Allowances - Annexure-2	10
6.	Details of Other Charges - Annexure-3	11 - 12
7.	Other Receipt particulars - Annexure-4	13
8.	Details of Remittances and Other Accounts - Annexure-5	14
9.	Funds (Schedule-A)	15
10.	Deposits and Advances of Outside Parties (Schedule-B)	16
11.	Remittances Due (Schedule-C)	17
12.	Other Liabilities (Schedule-D)	18 - 19
13.	Sponsored Programmes and Other schemes (Schedule-E)	20 - 21
14.	Fixed and Other Assets (Schedule-F)	22
	a) Major works in progress (Plan) (Schedule F1)	23 - 24
	b) Minor works in progress (Plan) (Schedule F2)	25 - 26
15.	Advances to Staff (Schedule-G)	27
16.	Sundry Debtors for Deposits and Advances (Schedule-H)	28
17.	Investments (Schedule-I)	29
	ADIP Scheme (Ministry of Social Justice and Empowerment)	
	(a) Balance Sheet (Schedule-J)	30
	(b) Income and Expenditure Account (Schedule-J-1)	31
	(c) Receipts and Payments Account (Schedule-J-2)	32
18.	Replies to the observations on the accounts of the institute for the year ended 31.3.2004	33

# ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

## Balance Sheet as at 31st March 2004

Liabilities			Amount			
	Rs.	Ps.	Current year	Ps.	Previous year	Rs.
Capital Fund:						
Balance as on 1.4.2003	28,19,33,588.80					
Less assets written off during the year (Schedule-F)		7,31,245.94				
	28,12,02,342.86					
Add amount transferred from Income & Expenditure account	6,45,79,111.72					
Closing Balance			34,57,81,454.58		28,19,33,588.80	
Funds (Schedule-A)			3,04,30,571.99		2,59,17,338.99	
Deposits and advances of outside parties (Schedule-B)			34,88,358.50		40,05,470.50	
Remittances account (Schedule-C)			89,704.42		1,354.00	
Other liabilities (Schedule-D)			35,86,254.00		55,34,000.00	
Sponsored programmes and other schemes (Schedule-E)			4,07,974.50		14,86,919.36	
ADIP Scheme (GOI, Ministry of Social Justice & Empowerment) (Schedule-J)			5,84,307.88		17,34,723.88	
<b>Total</b>			<b>38,43,68,625.87</b>		<b>32,06,13,395.53</b>	

Sd/-  
Accounts Officer

Sd/-  
Admn. Officer

Sd/-  
Director

Sd/-  
Chartered Accountants

**ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006**

**Balance Sheet as at 31st March 2004**

Assets	Amount			
	Rs.	Ps.	Current year Rs.	Previous year Rs.
Fixed and other assets (Schedule-F)			25,89,18,181.85	22,99,17,583.79
Advances to staff (Schedule-G)			12,96,785.00	13,18,463.00
Sundry debtors for deposits and advances (Schedule-H)			7,15,68,040.27	5,98,76,271.72
Investments (Schedule-I)			2,63,20,630.00	1,98,42,825.00
Cash and Bank Balances				
(a) Cash on Hand		6,165.20		
(b) Cash at Bank - SB A/c No.176 with BO	81,46,850.67		81,53,015.87	78,28,022.94
Income accrued due:				
(i) Interest accrued on PF a/c with MGPO		27,665.00		61,445.70
(ii) Grant-in-aid (Plan) due	1,75,00,000.00		1,75,27,665.00	0.00
GOI. Min. of Social Justice & Empowerment (Schedule-J)			5,84,307.88	17,34,723.88
ADIP account				34,059.50
<b>Total</b>			<b>38,43,68,625.87</b>	<b>32,06,13,395.53</b>

Sd/-  
Accounts Officer

Sd/-  
Admn. Officer

Sd/-  
Director

Sd/-  
Chartered Accountants

# ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

## Income and Expenditure account for the year ended 31st March 2004

Expenditure	Non-Plan		Plan		Current year		Previous year	
	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
Salaries and allowances (Annexure-2)	1,76,55,157.00		10,78,587.00		1,87,33,744.00		1,70,59,063.00	
Merit scholarship/stipend: Actuals	10,20,827.00		1,41,185.00		11,62,012.00		8,71,076.00	
Add outstanding 2003-04	57,400.00		24,372.00		81,772.00		1,05,756.00	
Travelling allowance: Actuals	5,10,465.00		45,080.00		5,55,545.00		5,86,104.00	
Add out-standing 2003-04	20,163.00				20,163.00		20,881.00	
Contribution to LS/PC	46,852.00				46,852.00		8,232.00	
Institute's contribution to funds:								
(a) Contributory Provident Fund	7,116.00				7,116.00		6,941.00	
(b) AIISH Pension Fund	7,78,143.00				7,78,143.00		7,69,827.00	
(c) Internal Revenue trd. to AIISH Pension Fund	40,59,000.00				40,59,000.00		44,20,000.00	
Interest on Funds : (a) Contributory Provident Fund	19,572.00				19,572.00		17,381.00	
(b) General Provident Fund	8,28,110.00				8,28,110.00		7,97,067.00	
<b>Professional Services: Actuals</b>	<b>173,950.00</b>		<b>17,550.00</b>		<b>1,91,500.00</b>		<b>1,04,000.00</b>	
Add outstanding 2003-04	12,850.00				12,850.00		30,250.00	
Other charges (Annexure-3): Actuals	45,51,863.36		39,12,171.75		84,64,035.11		68,16,450.00	
Add outstanding 2003-04	2,47,889.00		1,96,334.00		4,44,223.00		5,51,302.00	
AIISH Research Activities : Actuals			4,49,695.25		4,49,695.25		4,16,831.60	
Add outstanding			14,000.00		14,000.00		45,597.00	
Project on Prevention of Deafness and Hearing-impairment:								
Actuals			5,36,077.77		5,36,077.77		5,75,183.86	
Add outstanding 2003-04			32,579.00		32,579.00		39,496.00	
Other payments (Annexure I)	1,10,940.00				1,10,940.00		1,69,355.00	
Apprenticeship	18,972.00				18,972.00		22,604.00	
<b>Total</b>	<b>3,01,19,269.36</b>		<b>64,47,631.77</b>		<b>3,65,66,901.13</b>		<b>3,34,33,397.46</b>	
Sd/- Accounts Officer	Sd/- Admn. Officer		Sd/- Director		Sd/- Chartered Accountants			



**ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006**

**Income and Expenditure account for the year ended 31st March 2004**

Income	Non-Plan		Plan		Current year		Previous year	
	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
Grant-in-aid from GOI, Min. of H & FW - received during the year	2,10,00,000.00		5,25,00,000.00		7,35,00,000.00		10,50,00,000.00	
Less grants sanctioned for the year 2002-2003 but received up to 31.3.2004			1,75,00,000.00		1,75,00,000.00		1,40,00,000.00	
<b>Total</b>	<b>2,10,00,000.00</b>		<b>7,00,00,000.00</b>		<b>9,10,00,000.00</b>		<b>9,10,00,000.00</b>	
Less : Amount carried over to Balance sheet	10,26,743.49		6,35,52,368.23		6,45,79,111.72		6,71,37,587.82	
Amount of revenue expenditure out of grant	1,99,73,256.51		64,47,631.77		2,64,20,888.28		2,38,62,412.18	
Other income : Internal revenues (Annexure-1) Actuals	97,06,385.35				97,06,385.35		88,31,181.08	
Income accrued due (interest on SB A/c. 839050-MGPO - Annexure I)	27,665.00				27,665.00		61,445.70	
Other receipts (Annexure 4)	4,11,962.50				4,11,962.50		6,78,358.50	
<b>Total</b>	<b>3,01,19,269.36</b>		<b>64,47,631.77</b>		<b>3,65,66,901.13</b>		<b>3,34,33,397.46</b>	

Sd/-  
Accounts Officer

Sd/-  
Admn. Officer

Sd/-  
Director

Sd/-  
Chartered Accountants

# ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

## Receipts and Payments account for the year ended 31st March 2004

Receipts	Rs.		Ps.		Current year		Previous year	
	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
Opening Balance : Cash on hand		70,661.79						
Cash at Bank BOB SB A/c. No.176		77,57,361.15						
<b>Total</b>		<b>78,28,022.94</b>				<b>78,28,022.94</b>		
Add: Amount reflected under ADIP Scheme						34,059.50		
						<u>78,62,082.44</u>		23,18,165.82
(1) Grant-in-aid from Ministry of Health & Family Welfare								
- Non-Plan			2,10,00,000.00					
- Plan			5,25,00,000.00		7,35,00,000.00		10,50,00,000.00	
(2) Other receipts towards								
(a) Internal revenues (Annexure 1)					95,95,445.35		87,23,271.78	
(b) Other receipts (Annexure 4)					4,11,962.50		6,78,358.50	
(c) Capital Fund: Capitalization of the cost of mobile van							14,447.00	
(d) Transfer to Capital Fund (EMD & Security Deposits)							58,586.00	
(3) Deposits & Advances from outside parties (Schedule-B)							18,05,846.00	
(4) Sponsored programmes and other schemes (Schedule-E)							5,28,900.65	
(5) Details of remittances (Annexure 5)					1,49,796.12		0.00	
(6) Funds (Schedule-A)					4,54,233.00		13,11,750.00	
(7) Advances to staff (Schedule-G)					21,678.00		0.00	
(8) Cost of material/works recovered and transferred					51,011.00		2,16,162.00	
<b>Total</b>					<b>9,20,46,208.41</b>		<b>12,06,55,487.75</b>	

Sd/-  
Accounts Officer

Sd/-  
Admn. Officer

Sd/-  
Director

Sd/-  
Chartered Accountants

**ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006**

**Receipts and Payments account for the year ended 31st March 2004**

Payments	Non-Plan		Plan		Current year		Previous year	
	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
<b>A. RECURRING EXPENDITURE:</b>								
1. Salaries and allowances (Annexure-2)	1,61,60,230.00		9,68,588.00		1,71,28,818.00		1,55,14,111.00	
2. Travelling allowance	5,10,465.00		45,080.00		5,55,545.00		5,86,104.00	
3. Contribution to funds: i) LS and PC deputationist	46,852.00		0.00		46,852.00		8,232.00	
ii) GPF interest	8,28,110.00		0.00		8,28,110.00		7,97,067.00	
iii) CPF interest	19,572.00		0.00		19,572.00		17,381.00	
v) Employers' contribution to CPF	7,116.00		0.00		7,116.00		6,941.00	
vi) AIISH Pension Fund	7,78,143.00		0.00		7,78,143.00		7,69,827.00	
4. Merit scholarship/stipend	10,20,827.00		1,41,185.00		11,62,012.00		8,71,076.00	
5. Other charges (Annexure-3)	45,51,863.36		39,12,171.75		84,64,035.11		68,16,450.00	
6. AIISH Research activities	0.00		4,49,695.25		4,49,695.25		4,16,831.60	
7. Professional services	1,73,950.00		17,550.00		1,91,500.00		1,04,000.00	
Other payments								
8. Apprenticeship	18,972.00		0.00		18,972.00		22,604.00	
9. Project on Prevention of Deafness & Hearing- Impairment.	0.00		5,36,077.77		5,36,077.77		5,75,183.86	
<b>B. NON-RECURRING EXPENDITURE</b>								
1. Fixed and other assets/gift equipment (Schedule-F)	32,240.00		2,83,74,874.00		2,84,07,114.00		6,83,05,700.00	
2. Deposits and advances of outside parties (Schedule-B)	5,17,112.00		0.00		5,17,112.00		0.00	
3. Advances to staff (Schedule-G)							46,537.00	

Contd...

Payments	Non-Plan		Plan		Current year		Previous year	
	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
4. Deposits/Advance to contractors/suppliers (Sch.-H)			1,16,91,768.55		0.00	1,16,91,768.55	37,88,033.89	
5. Investment (Schedule-I)			64,77,805.00		0.00	64,77,805.00	71,94,819.00	
6. Sponsored programs and other scheme (Sch.-E)			10,78,944.86		0.00	10,78,944.86		0.00
7. Outstanding expenses (Schedule-D)			20,59,509.00		34,74,491.00	55,34,000.00	67,35,861.00	
8. Remittances and other accounts							1,63,619.96	
9. Capital fund account							53,026.00	
<b>Total</b>			<b>4,59,73,479.77</b>		<b>3,79,19,712.77</b>	<b>8,38,93,192.54</b>	<b>11,27,93,405.31</b>	
Closing balance: Cash on hand	6,165.20							
Cash at Bank: BOB SB A/c.176	81,46,850.67					81,53,015.87	78,62,082.44	
<b>Grand Total</b>						<b>9,20,46,208.41</b>	<b>12,06,55,487.75</b>	

Sd/-  
Accounts Officer

Sd/-  
Admn. Officer

Sd/-  
Director

Sd/-  
Chartered Accountants

# ALL INDIA INSTITUTE OF SPEECH AND HEARING: MYSORE 570 006

## Details of Internal Revenues 2003-04

Annexure-1

Sl.No.	Head of Account	Debit/Payments		Credit/Receipts	
		Rs.	Ps.	Rs.	Ps.
1.	Admission fee (Hostels)		0.00		2,610.00
2.	Admission fee (Institute)	9,970.00		9,60,143.00	
3.	Application fees		0.00	3,34,210.00	
4.	Certificate fee (Cases)	40.00		6,02,985.00	
5.	Certificate fee (Students)	9,000.00		7,36,993.00	
6.	Depreciation charges		0.00	6,960.00	
7.	Dharmashala charges	90.00		16,485.00	
8.	Disposal/auction proceeds		0.00	2,04,205.00	
9.	Donation	3,725.00		8,89,448.00	
10.	Email/Internet fee		0.00	2,19,900.00	
11.	Rent (Guest House)	5,608.00		1,85,975.00	
12.	Rent (Hostel)		0.00	60,588.00	
13.	Infrastructure assistance - ADIP Scheme		0.00	1,00,135.00	
14.	Infrastructure assistance - Rehabilitation Council of India	21,700.00		60,308.80	
15.	Infrastructure assistance - Camp		0.00	29,200.00	
16.	Interest on Advances		0.00	17,454.00	
17.	Interest on GPF		0.00	3,34,301.85	
18.	Interest on HBA		0.00	35,739.00	
19.	Interest on Investments	22,625.00		35,40,030.50	
20.	Interest on S.B A/c		0.00	1,38,374.00	

Contd...



Sl.No.	Head of Account	Debit/Payments		Credit/Receipts	
		Rs.	Ps.	Rs.	Ps.
21.	Laboratory facility		0.00		2,36,000.00
22.	Library membership/card fee		0.00		58,600.00
23.	Licence fee	29,817.00			1,09,310.00
24.	Miscellaneous income	5,000.00			1,32,875.20
25.	Orientation/short-term course fee		0.00		51,335.00
26.	Registration fee		0.00		71,755.00
27.	Sale of Journals/syllabus/prospectus		0.00		33,100.00
28.	Sanitary charges		0.00		4,350.00
29.	Technical consultancy services	2,000.00			49,905.00
30.	Tender form fee		0.00		1,30,945.00
31.	Therapy charges		0.00		1,50,125.00
32.	Tuition fee		0.00		1,93,000.00
33.	Examination fee (Diploma)	1,365.00			9,040.00
<b>Total</b>		<b>1,10,940.00</b>			<b>97,06,385.35</b>
<b>Net receipts</b>					<b>95,95,445.35</b>

Sd/-  
Accounts Officer

Sd/-  
Admn. Officer

Sd/-  
Director

Sd/-  
Chartered Accountants

**ALL INDIA INSTITUTE OF SPEECH AND HEARING: MYSORE 570 006**

**Details of Salaries and Allowances - 2003-04**

Annexure-2

Sl. No.	Particulars	Non-Plan		Plan		Total	
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
1.	Salaries - Officers (NP)	71,05,141.00		10,40,918.00		81,46,059.00	
2.	Salaries - Establishment (NP)	1,04,00,767.00		4,161.00		1,04,04,928.00	
3.	Children education allowance	13,800.00		0.00		13,800.00	
4.	Medical charges	92,079.00		0.00		92,079.00	
5.	Leave travel concession	16,904.00		0.00		16,904.00	
	<b>Total</b>	<b>1,76,28,691.00</b>		<b>10,45,079.00</b>		<b>1,86,73,770.00</b>	
	<b>(-) Outstanding liabilities 2002-2003</b>	<b>14,68,461.00</b>		<b>76,491.00</b>		<b>15,44,952.00</b>	
		<b>1,61,60,230.00</b>		<b>9,68,588.00</b>		<b>1,71,28,818.00</b>	
	<b>(+) Outstanding liabilities 2003-04</b>	<b>14,94,927.00</b>		<b>1,09,999.00</b>		<b>16,04,926.00</b>	
	<b>Total</b>	<b>1,76,55,157.00</b>		<b>10,78,587.00</b>		<b>1,87,33,744.00</b>	

Sd/-  
Accounts Officer

Sd/-  
Admn. Officer

Sd/-  
Director

Sd/-  
Chartered Accountants

# ALL INDIA INSTITUTE OF SPEECH AND HEARING: MYSORE 570 006

## Details of Other Charges - 2003-04

Annexure-3

Sl.No.	Particulars	Non-Plan		Plan		Total	
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
1.	Advertisement	7,81,826.00		21,598.00		8,03,424.00	
2.	Affiliation fees	17,000.00		4,67,400.00		4,84,400.00	
3.	Anniversary expenses	1,20,592.75		0.00		1,20,592.75	
4.	Audit fees	6,480.00		0.00		6,480.00	
5.	Camp expenditure	5,802.30		0.00		5,802.30	
6.	Consumables - General	2,17,691.50		8,31,517.50		10,49,209.00	
7.	Consumables - Earmoulds	72,644.00		0.00		72,644.00	
8.	Consumables - Spares	32,090.00		0.00		32,090.00	
9.	Contingencies	1,31,440.10		38,090.00		1,69,530.10	
10.	Development of campus	0.00		10,42,799.00		10,42,799.00	
11.	Electricity charges	8,75,001.00		4,80,301.00		13,55,302.00	
12.	Entertainment	28,587.50		0.00		28,587.50	
13.	Grant-in-aid to AIISH Gymkhana	50,000.00		0.00		50,000.00	
14.	Legal charges	20,000.00		0.00		20,000.00	
15.	Liveries and linen	30,839.79		0.00		30,839.79	
16.	Maintenance of building - electrical	1,030.00		0.00		1,030.00	
17.	Maintenance of building - civil	6,40,734.00		0.00		6,40,734.00	
18.	Maintenance of furniture	9,064.00		0.00		9,064.00	
19.	Maintenance of garden	46,890.00		0.00		46,890.00	
20.	Maintenance of library	10,080.00		17,400.00		27,480.00	
21.	Maintenance of TE/OE	1,77,277.20		5,87,753.00		7,65,030.20	

Sl.No.	Particulars	Non-Plan		Plan		Total	
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
22.	Maintenance of vehicle	1,16,069.47		32,532.00		1,48,601.47	
23.	Postage and telegram	1,00,949.00		25,237.00		1,26,186.00	
24.	Public Education & Publicity Information		0.00	70,650.00			70,650.00
25.	Printing and stationery	2,30,054.25		1,22,384.00		3,52,438.25	
26.	Rent/rates/taxes	59,652.00		0.00		59,652.00	
27.	Seminars/symposia/workshops		0.00	70,691.25			70,691.25
28.	Spares and accessories		0.00	1,43,172.00			1,43,172.00
29.	Subscription to Journals/periodicals	8,115.00		0.00			8,115.00
30.	Subsidy to Departmental Canteen	2,62,130.00		0.00		2,62,130.00	
31.	Telephone charges/fax charges	1,22,893.80		10,410.00		1,33,303.80	
32.	VIP/Dignitaries account	60,151.70		0.00		60,151.70	
31.	Wages	6,87,205.00		64,050.00		7,51,255.00	
32.	Xerox charges	67,062.00		0.00		67,062.00	
<b>Total</b>		<b>49,89,352.36</b>		<b>40,25,984.75</b>		<b>90,15,337.11</b>	
<b>(-) Out-standing 2002-03(includes wages -Plan)</b>		<b>4,37,489.00</b>		<b>1,13,813.00</b>		<b>5,51,302.00</b>	
<b>Actuals</b>		<b>45,51,863.36</b>		<b>39,12,171.75</b>		<b>84,64,035.11</b>	
<b>(+) Out-standing 2003-04</b>		<b>2,47,889.00</b>		<b>1,96,334.00</b>		<b>4,44,223.00</b>	
<b>Total</b>		<b>47,99,752.36</b>		<b>41,08,505.75</b>		<b>89,08,258.11</b>	

Sd/-  
Accounts Officer

Sd/-  
Admn. Officer

Sd/-  
Director

Sd/-  
Chartered Accountants

**ALL INDIA INSTITUTE OF SPEECH AND HEARING: MYSORE 570 006**

**Other Receipts for the year 2003-04**

Annexure-4

Sl.No.	Head of Account	Total
1.	Sale of earmoulds	1,53,130.00
2.	Sale of hearing aid spares	42,835.50
3.	Water charges (quarters)	52,961.00
4.	Water charges (contractors)	1,63,036.00
<b>Total</b>		<b>4,11,962.50</b>

Sd/-  
Accounts Officer

Sd/-  
Admn. Officer

Sd/-  
Director

Sd/-  
Chartered Accountants



**ALL INDIA INSTITUTE OF SPEECH AND HEARING: MYSORE 570 006**

**Details of Remittances and Other Accounts 2003-04**

**Annexure-5**

Sl.No.	Details	Payments		Receipts	
		Rs.	Ps.	Rs.	Ps.
1.	AIISH Staff Club/Gymkhana	99,693.80		99,693.80	
2.	Awards	4,125.00		4,371.42	
3.	Bank loan	4,000.00		4,000.00	
4.	Court attachment	4,710.00		4,710.00	
5.	CTD/RD/CD recoveries	1,09,060.00		1,09,060.00	
6.	Establishment charges	2,08,800.00		2,08,800.00	
7.	Examination fee	1,68,490.00		1,68,490.00	
8.	Examination remuneration	26,011.00		26,011.00	
9.	GPF/CPF deputationist	65,000.00		65,000.00	
10.	CGEIS	2,940.00		2,940.00	
11.	GSLIS	1,05,724.00		1,05,724.00	
12.	Income tax	9,12,425.00		9,12,425.00	
13.	LIC premia	11,12,347.30		11,12,347.30	
14.	Housing loan recoveries (others)	2,56,906.00		2,56,906.00	
15.	Prime Ministers National Relief Fund	3,724.00		3,724.00	
16.	Professional tax	1,97,945.00		1,97,945.00	
17.	Royalties	14,958.00		14,958.00	
18.	Sales tax	1,27,513.00		1,27,513.00	
19.	Sports fee (students)	9,380.00		9,380.00	
20.	Student Association	21,440.00		21,440.00	
21.	Suspense account	76,420.00		88,384.00	
22.	University of Mysore	3,56,630.00		3,56,630.00	
23.	ISHA36	15,950.00		92,090.00	
24.	NSS	6,572.00		6,572.00	
25.	Interest accrued due	0.00		61,445.70	
<b>Total</b>		<b>39,10,764.10</b>		<b>40,60,560.22</b>	

**Net Receipts 1,49,796.12**

Sd/-  
Accounts Officer

Sd/-  
Admn. Officer

Sd/-  
Director

Sd/-  
Chartered Accountants

# ALL INDIA INSTITUTE OF SPEECH AND HEARING: MYSORE 570 006

## Funds 2003-04

### Schedule-A

Particulars	Con. Provident Fund		Gen. Provident Fund		Pension Fund		Total	
	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
<b>Opening balance as on 1.4.2002</b>	<b>2,39,017.00</b>		<b>1,03,50,792.00</b>		<b>1,53,27,529.99</b>		<b>2,59,17,338.99</b>	
<b>Receipts during the year:</b>								
Subscriptions	25,484.00		42,66,449.00		0.00		42,91,933.00	
Institute's contribution	7,116.00		0.00		7,78,143.00		7,85,259.00	
Interest on subscription	9,166.00		8,28,110.00		0.00		8,37,276.00	
Interest on contribution	10,406.00		0.00		0.00		10,406.00	
Interest on investments	0.00		0.00		7,99,202.00		7,99,202.00	
Amount transferred from internal revenues	0.00		0.00		40,59,000.00		40,59,000.00	
<b>Total receipts</b>	<b>52,172.00</b>		<b>50,94,559.00</b>		<b>56,36,345.00</b>		<b>1,07,83,076.00</b>	
<b>Payments during the year:</b>								
Final payments/withdrawals/advances	9,972.00		35,65,032.00		0.00		35,75,004.00	
Payment of gratuity	0.00		0.00		4,81,661.00		4,81,661.00	
Pension/Family pension	0.00		0.00		17,88,455.00		17,88,455.00	
Commuted value of pension	0.00		0.00		4,24,723.00		4,24,723.00	
<b>Total Payments</b>	<b>9,972.00</b>		<b>35,65,032.00</b>		<b>26,94,839.00</b>		<b>62,69,843.00</b>	
<b>Closing balance as on 31.3.2004</b>	<b>2,81,217.00</b>		<b>1,18,80,319.00</b>		<b>1,82,69,035.99</b>		<b>3,04,30,571.99</b>	
							<b>Net Receipt</b>	<b>4,54,233.00</b>

Sd/-  
Accounts Officer

Sd/-  
Admn. Officer

Sd/-  
Director

Sd/-  
Chartered Accountants

**ALL INDIA INSTITUTE OF SPEECH AND HEARING: MYSORE 570 006**

**Deposits and Advances of Outside Parties - 2003-04**

Schedule-B

Sl.No.	Particulars	Opening balance as on 1.4.2003		Receipts		Payments		Closing balance as on 31.3.2004	
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
1	Caution money deposit	4,47,900.00		2,47,000.00		1,98,900.00		4,96,000.00	
2	Contractor's security deposit	33,61,245.50		12,14,210.00		25,68,155.00		20,07,300.50	
3	Earnest money deposit	1,96,325.00		15,24,180.80		7,35,447.80		9,85,058.00	
4	Mess advance		0.00	14,000.00		14,000.00			0.00
	<b>Total</b>	<b>40,05,470.50</b>		<b>29,99,390.80</b>		<b>35,16,502.80</b>		<b>34,88,358.50</b>	
						<b>Net Payment</b>		<b>5,17,112.00</b>	

Sd/-  
Accounts Officer

Sd/-  
Admn. Officer

Sd/-  
Director

Sd/-  
Chartered Accountants

# ALL INDIA INSTITUTE OF SPEECH AND HEARING: MYSORE 570006

Schedule-C

## Remittances Due 2003-2004

Sl.No.	Particulars	Opening balance		Receipts/Credits		Payments/Debits		Closing balance	
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
1.	AIISH Staff Club/Gymkhana		0.00		99,693.80		99,693.80		0.00
2.	Awards		0.00		4,371.42		4,125.00		246.42
3.	Bank loan		0.00		4,000.00		4,000.00		0.00
4.	Court attachment		0.00		4,710.00		4,710.00		0.00
5.	CTD/RD/CD recoveries		0.00		1,09,060.00		1,09,060.00		0.00
6.	Establishment charges		0.00		2,08,800.00		2,08,800.00		0.00
7.	Examination fee		0.00		1,68,490.00		1,68,490.00		0.00
8.	Examination remuneration	-4,682.00			26,011.00		26,011.00	-4,682.00	
9.	GPF/CPF deputationist		0.00		65,000.00		65,000.00		0.00
10.	CGEIS		0.00		2,940.00		2,940.00		0.00
11.	GSLIS		0.00		1,05,724.00		1,05,724.00		0.00
12.	Income tax		0.00		9,12,425.00		9,12,425.00		0.00
13.	LIC premia		0.00		11,12,347.30		11,12,347.30		0.00
14.	Housing loan recoveries (others)		0.00		2,56,906.00		2,56,906.00		0.00
15.	Prime Ministers National Relief Fund		0.00		3,724.00		3,724.00		0.00
16.	Professional tax		0.00		1,97,945.00		1,97,945.00		0.00
17.	Royalties		0.00		14,958.00		14,958.00		0.00
18.	Sales tax		0.00		1,27,513.00		1,27,513.00		0.00
19.	Sports fee (students)		0.00		9,380.00		9,380.00		0.00
20.	Student Association		0.00		21,440.00		21,440.00		0.00
21.	Suspense account	6,036.00			88,384.00		76,420.00	18,000.00	
22.	University of Mysore		0.00		3,56,630.00		3,56,630.00		0.00
23.	ISHA36		0.00		92,090.00		15,950.00	76,140.00	
24.	NSS		0.00		6,572.00		6,572.00		0.00
<b>Total</b>		<b>1,354.00</b>		<b>39,99,114.52</b>		<b>39,10,764.10</b>		<b>89,704.42</b>	

Sd/-  
Accounts Officer

Sd/-  
Admn. Officer

Sd/-  
Director

Sd/-  
Chartered Accountants

**ALL INDIA INSTITUTE OF SPEECH AND HEARING: MYSORE 570 006**

**Other Liabilities - 2003-04**

**Schedule-D**

Sl.No.	Particulars	Opening balance		(-) Debit		(+) Credit		Closing Balance	
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
	<b>Non-Plan</b>								
1.	Salaries and allowances	14,68,461.00		14,68,461.00		14,94,927.00		14,94,927.00	
2.	Stipend/scholarship	1,02,428.00		1,02,428.00		57,400.00		57,400.00	
3.	Professional services	30,250.0		30,250.00		12,850.00		12,850.00	
4.	Other charges	4,37,489.00		4,37,489.00		2,47,889.00		2,47,889.00	
5.	Travelling allowance	20,881.00		20,881.00		20,163.00		20,163.00	
	<b>Total Non-Plan</b>	<b>20,59,509.00</b>		<b>20,59,509.00</b>		<b>18,33,229.00</b>		<b>18,33,229.00</b>	
	<b>Plan</b>								
6.	Technical equipment	49,734.00		49,734.00		17,790.00		17,790.00	
7.	Furniture	15,300.00		15,300.00		3,90,530.00		3,90,530.00	
8.	Other charges	84,370.00		84,370.00		1,88,924.00		1,88,924.00	
9.	Major works	31,30,732.00		31,30,732.00		1,22,539.00		1,22,539.00	
10.	Minor works	0.00		0.00		5,300.00		5,300.00	
11.	Electricity charges	8,443.00		8,443.00		7,410.00		7,410.00	
12.	Wages	21,000.00		21,000.00		0.00		0.00	
13.	Project - Prevention of Deafness & Hearing Impairment	39,496.00		39,496.00		32,579.00		32,579.00	
14.	AIISH Research activities	45,597.00		45,597.00		14,000.00		14,000.00	
15.	Library and documentation	0.00		0.00		43,134.00		43,134.00	
16.	Motor vehicles	0.00		0.00		7,96,448.00		7,96,448.00	
17.	Salaries and allowances	76,491.00		76,491.00		1,09,999.00		1,09,999.00	
18.	Stipend	3,328.00		3,328.00		24,372.00		24,372.00	
	<b>Total Plan</b>	<b>34,74,491.00</b>		<b>34,74,491.00</b>		<b>17,53,025.00</b>		<b>17,53,025.00</b>	
	<b>Grand Total</b>	<b>55,34,000.00</b>		<b>55,34,000.00</b>		<b>35,86,254.00</b>		<b>35,86,254.00</b>	

Sd/-  
Accounts Officer

Sd/-  
Admn. Officer

Sd/-  
Director

Sd/-  
Chartered Accountants



# ALL INDIA INSTITUTE OF SPEECH AND HEARING: MYSORE 570 006

## Sponsored Programmes and Other Schemes - 2003-04

Schedule-E

Sl.No.	Particulars	Opening balance		Receipts		Payments		Closing Balance	
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
Other Schemes									
1.	Patients Welfare Fund	1,08,424.30		15,872.00		260.00		1,24,036.30	
2.	Camp organizers account	6,672.00		6,000.00		10,645.00		2,027.00	
3.	Project - Speech Perception	3,92,206.00		2,72,101.00		2,10,924.75		4,53,382.25	
4.	WHO -Training Modules on POD	4,57,004.00		0.00		4,57,004.00		0.00	
5.	WHO short term training course	25,750.00		23,485.00		49,235.00		0.00	
6.	WHO - Seminar on the Rehabilitation of hearing impaired	89,400.00		0.00		89,400.00		0.00	
7.	WHO workshop for Health workers and other gross root level workers on Prevention, Identification and Management of Communication Disorders	1,49,672.00		4,011.00		1,53,683.00		0.00	
8.	ICMR	75,640.51		0.00		75,640.51		0.00	
9.	UNICEF	17,723.50		0.00		17,723.50		0.00	
10.	Scheme under Helpage India	84,351.00		0.00		61,501.00		22,850.00	
11.	Research Project on Development of milestones of language acquisition in Indian languages	3,156.20		0.00		3,156.20		0.00	
12.	Project on Development of FM hearing aid	1,44,825.75		0.00		1,36,075.90		8,749.85	
13.	Workshop on Effect of Noise	0.00		10,000.00		10,000.00		0.00	
14.	Workshop on Repair of BERA & OAR	0.00		44,000.00		44,000.00		0.00	
15.	Workshop on free repair of body worn hearing aids	0.00		6,914.75		6,914.75		0.00	
16.	RCI - Conduction of impact study	0.00		15,000.00		11,743.00		3,257.00	
Total Liabilities		15,54,825.26		3,97,383.75		13,37,906.61		6,14,302.40	

Contd.

Sl.No.	Particulars	Opening balance		Receipts		Payments		Closing Balance	
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
Assets									
17.	Project on TOSHI	-24,729.00		1,341.00		0.00		-23,388.00	
18.	Grant - RCI	-43,176.90		5,18,265.00		6,58,028.00		-1,82,939.90	
	Total Assets	-67,905.90		5,19,606.00		6,58,028.00		-2,06,327.90	
	Grand Total	14,86,919.36		9,16,989.75		19,95,934.61		4,07,974.50	
						Net Payment		10,78,944.86	

Sd/-  
Accounts Officer

Sd/-  
Admn. Officer

Sd/-  
Director

Sd/-  
Chartered Accountants

# ALL INDIA INSTITUTE OF SPEECH AND HEARING: MYSORE 570 006

## Fixed and Other Assets - 2003-04

Schedule-F

Sl. No.	Particulars	Balance as on 1.4.2003		Additional Purchase						Recoveries/ Transfers/ Written off		Balance as on 31.3.2004	
				Non-plan actuals		Plan actuals		Outstanding					
		Rs	.Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs	.Ps.	Rs.	Ps.
1.	Building and other works												
	a) Completed buildings	2,65,91,285.29		0.00		0.00		0.00		0.00		2,65,91,285.29	
	b) Works-in-progress	11,16,07,516.15		0.00		1,85,49,384.00		1,27,839.00		0.00		13,02,84,739.15	
2.	Furniture and fixtures	84,79,316.91		0.00		16,65,171.00		3,90,530.00		0.00		1,05,35,017.91	
3.	Garden equipment	64,108.13		0.00		0.00		0.00		1,688.88		62,419.25	
4.	Library and documentation	1,16,52,975.34		0.00		13,67,672.00		43,134.00		1,38,964.90		1,29,24,816.44	
5.	Vehicles												
	a) Car	5,14,319.00		0.00		0.00		0.00		1,13,700.00		4,00,619.00	
	b) Omni bus	2,51,095.57		0.00		0.00		7,96,448.00		2,51,095.57		7,96,448.00	
	c) Mobile unit	27,60,632.90		0.00		0.00		0.00		0.00		27,60,632.90	
6.	Office equipment	50,82,115.89		0.00		0.00		0.00		0.00		50,82,115.89	
7.	Technical equipment	4,92,43,005.89		5,246.00		66,93,891.00		17,790.00		2,74,672.97		5,56,85,259.92	
8.	Gifted equipment	1,33,03,511.09		0.00		0.00		0.00		0.00		1,33,03,511.09	
9.	Sundry assets												
	a) Hostel utensils	1,40,638.71		0.00		0.00		0.00		475.05		1,40,163.66	
	b) Teaching aids	2,27,062.92		26,994.00		98,756.00		0.00		1,659.57		3,51,153.35	
<b>Total</b>		<b>22,99,17,583.79</b>		<b>32,240.00</b>		<b>2,83,74,874.00</b>		<b>13,75,741.00</b>		<b>7,82,256.94</b>		<b>25,89,18,181.85</b>	
Break up :		Written off		7,31,245.94		• Recoveries		51,011.00					

Sd/-  
Accounts Officer

Sd/-  
Admn. Officer

Sd/-  
Director

Sd/-  
Chartered Accountants

**ALL INDIA INSTITUTE OF SPEECH AND HEARING: MYSORE 570 006**

**Statement showing details of works in progress as on 31.3.2004**

**Major works in progress (PLAN)**

Schedule-F-1

Sl. No.	Particulars	Opening balance as on 1.4.2003		Expenditure 2003-04				Closing balance as on 31.3.2004	
		Rs.	Ps.	Additions		Outstanding liability	Credits	Rs.	Ps.
				Rs.	Ps.				
1.	Sports complex (AIISH Gymkhana)	1,24,30,739.00		1,01,650.00		0.00	0.00	1,25,32,389.00	
2.	Modification of Audiology block	66,40,642.50				0.00	0.00	66,40,642.50	
3.	Library block	1,85,54,663.00				0.00	0.00	1,85,54,663.00	
4.	Construction of compound wall - Dharmashala	12,31,109.00				0.00	0.00	12,31,109.00	
5.	Construction of multipurpose vehicle garage	17,26,825.00				0.00	0.00	17,26,825.00	
6.	Construction of stone masonry compound wall (main campus)	32,34,046.00				0.00	0.00	32,34,046.00	
7.	Construction of Speech-Language Therapy Clinic	3,91,44,685.00		28,000.00		0.00	0.00	3,91,72,685.00	
8.	Electrical work	31,68,133.00				0.00	0.00	31,68,133.00	
9.	Computer Networking	8,51,783.00				0.00	0.00	8,51,783.00	
10.	Providing Yelhanka tiles for terrace roof	11,85,075.00				0.00	0.00	11,85,075.00	
11.	Providing and fixing sun control film for doors and windows	2,51,265.00				0.00	0.00	2,51,265.00	
12.	Providing lift	7,15,446.00				0.00	0.00	7,15,446.00	
13.	Developmental works	19,30,063.00				0.00	0.00	19,30,063.00	
14.	Construction of generator room	9,04,061.00				0.00	0.00	9,04,061.00	
15.	Modification of canteen	7,75,808.00				0.00	0.00	7,75,808.00	
16.	Construction of Preschool	83,22,004.00		1,57,68,339.00		0.00	0.00	2,40,90,343.00	
17.	Hearing aid lab	2,33,835.00				0.00	0.00	2,33,835.00	
18.	UG cable and street lights	14,13,580.00				0.00	0.00	14,13,580.00	
19.	UG cable and street lights to Dharmashala	4,06,394.00				0.00	0.00	4,06,394.00	
20.	Construction of compound wall and garage to D type quarters	7,02,362.00				0.00	0.00	7,02,362.00	

Contd....

Sl. No.	Particulars	Opening balance as on 1.4.2003		Expenditure 2003-04				Closing balance as on 31.3.2004	
				Additions		Outstanding liability		Credits	
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
21.	Construction of Car garage	825.00		4,29,622.00		0.00		0.00	
22.	Alteration to E type staff quarters	7,08,258.00		3,07,473.00		0.00		0.00	
23.	Alteration to A & B staff quarters	6,90,669.00		1,97,908.00		0.00		0.00	
24.	Alteration to D1-D7 staff quarters	54,850.00		0.00		0.00		0.00	
25.	Parking at Speech block	2,29,593.00		0.00		0.00		0.00	
26.	Chain link fencing near C type quarters	0.00		1,56,244.00		0.00		0.00	
27.	Asphalting road from Canteen to Library	0.00		2,61,770.00		0.00		0.00	
28.	Construction of Administrative Block	0.00		7,611.00		0.00		0.00	
29.	Construction of Academic Block	0.00		7,715.00		0.00		0.00	
30.	Approach road from Library & Preschool to Speech Pathology	0.00		2,40,000.00		0.00		0.00	
31.	Shifting of HT yard	0.00		8,03,773.00		5,300.00		0.00	
32.	Construction of ladies hostel	0.00		18,426.00		0.00		0.00	
33.	UG cable to ladies hostel and gents hostel	0.00		0.00		72,287.00		0.00	
34.	Formation of road to new ladies hostel	0.00		0.00		50,252.00		0.00	
<b>Total</b>		<b>10,55,06,713.50</b>		<b>1,83,28,531.00</b>		<b>1,27,839.00</b>		<b>0.00</b>	

Sd/-  
Accounts Officer

Sd/-  
Admn. Officer

Sd/-  
Director

Sd/-  
Chartered Accountants



**ALL INDIA INSTITUTE OF SPEECH AND HEARING: MYSORE 570 006**

**Statement showing details of works in progress as on 31.3.2003**

**Minor works in progress (PLAN)**

Schedule-F-2

Sl. No.	Particulars	Opening		Expenditure 2003-04			Closing	
		balance as on		Additions		Credit	balance as on	
		1.4.2003					31.3.2004	
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	
1.	Electrification work of shifting power line/conversion of overhead - New Library block	5,00,850.00		0.00		0.00		5,00,850.00
2.	Repair/replacement of worn-out sanitary work at Ladies hostel	2,49,063.00		0.00		0.00		2,49,063.00
3.	Fixing Curbstone at AIISH	3,05,498.00		0.00		0.00		3,05,498.00
4.	Repair/replacement of worn-out sanitary work at Gents hostel	2,02,392.00		0.00		0.00		2,02,392.00
5.	Improvement to AIISH Departmental Canteen	26,712.00		0.00		0.00		26,712.00
6.	Storm water drain at new library building	1,38,767.00		0.00		0.00		1,38,767.00
7.	Development of road to library building	4,988.00		0.00		0.00		4,988.00
8.	Construction of pump house to new library building	1,05,669.00		0.00		0.00		1,05,669.00
9.	Providing and fixing 2" pipeline near bore well of library building and providing and laying stoneware pipe and construction of manhole chambers	96,788.00		0.00		0.00		96,788.00
10.	Underground drainage line	12,25,054.00		0.00		0.00		12,25,054.00
11.	Two-wheeler parking near library	55,062.00		0.00		0.00		55,062.00
12.	Construction of ramp near quadrangle	22,711.00		0.00		0.00		22,711.00
13.	Renovation of bathrooms	2,05,168.00		0.00		0.00		2,05,168.00
14.	Shifting of HT	1,24,448.00		0.00		0.00		1,24,448.00
15.	Formation of road to sports complex	2,37,776.00		0.00		0.00		2,37,776.00
16.	Interior decoration of guest house	1,23,184.00		0.00		0.00		1,23,184.00
17.	Construction of sump tank at new library building	15,930.00		0.00		0.00		15,930.00

Contd....

Sl. No.	Particulars	Opening balance as on 1.4.2003		Expenditure 2003-04				Closing balance as on 31.3.2004	
				Additions		Credit			
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
18.	Work of providing and laying concrete over drain at children therapy park entrance	7,975.00		0.00		0.00			
19.	Re-routing of underground cable from guest house to power house	3,21,624.65		0.00		0.00		3,21,624.65	
20.	Construction of security booth near guest house and ladies hostel	4,01,011.00		0.00		0.00		4,01,011.00	
21.	Widening of road from main gate leading to new therapy clinic	2,24,605.00		0.00		0.00		2,24,605.00	
22.	Bore well near therapy clinic	41,400.00		0.00		0.00		41,400.00	
23.	Bore well near men's hostel	42,100.00		0.00		0.00		42,100.00	
24.	Sign boards near Library and Guest House	20,700.00		0.00		0.00		20,700.00	
25.	Aluminium partition to Electronics Department (F.37)	11,055.00		0.00		0.00		11,055.00	
26.	Construction of sump tank in men's hostel (F.39)	65,881.00		0.00		0.00		65,881.00	
27.	Conversion of double room to single room	46,304.00		0.00		0.00		46,304.00	
28.	Renovation of bathroom near Medical records and Speech Pathology (F.21)	4,21,189.00		0.00		0.00		4,21,189.00	
29.	Construction of small room for installing switch (network) behind D-5 quarters	19,457.00		0.00		0.00		19,457.00	
30.	UG cable and street lights (F.3)	1,71,451.00		0.00		0.00		1,71,451.00	
31.	New wiring of Earmould lab (F.45)	1,41,117.00		0.00		0.00		1,41,117.00	
32.	Providing and fixing powder coated aluminium sliding windows (F.47)	1,31,896.00		0.00		0.00		1,31,896.00	
33.	Renovation of Speech Language Sciences	32,906.00		0.00		0.00		32,906.00	
34.	Water drain to new Library block	3,60,071.00		0.00		0.00		3,60,071.00	
35.	Construction of compound wall in front of C type quarters	0.00		1,11,978.00		0.00		1,11,978.00	
36.	Providing drains-Phase I and II near Director's residence & LH	0.00		78,416.00		0.00		78,416.00	
37.	Construction of Macadam road in front of Preschool building	0.00		30,459.00		0.00		30,459.00	
<b>Total</b>		<b>61,00,802.65</b>		<b>2,20,853.00</b>		<b>0.00</b>		<b>63,21,655.65</b>	

Sd/-  
Accounts Officer

Sd/-  
Admn. Officer

Sd/-  
Director

Sd/-  
Chartered Accountants

**ALL INDIA INSTITUTE OF SPEECH AND HEARING: MYSORE 570 006**

**Advances to Staff - 2003-04**

								Schedule-G	
Sl.No.	Particulars	balance as on 1.4.2003		Additions/ Debits		Recoveries/ Credits		Balance as on 31.3.2004	
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
<b>A. Bearing Interest</b>									
1.	House building advance	4,72,448.00		0.00		71,134.00		4,01,314.00	
2.	Scooter advance	4,77,934.00		1,32,000.00		1,74,493.00		4,35,441.00	
3.	Cycle advance	29,350.00		15,000.00		19,200.00		25,150.00	
4.	Motor car advance	2,66,800.00		1,50,818.00		35,798.00		3,81,820.00	
<b>B. Not bearing interest</b>									
1.	Festival advance	38,900.00		1,24,750.00		1,24,650.00		39,000.00	
2.	Travelling allowance advance	26,335.00		22,500.00		48,275.00		560.00	
3.	LTC advance	5,008.00		21,104.00		12,612.00		13,500.00	
4.	Medical advance	1,688.00		0.00		1,688.00		0.00	
<b>Total</b>		<b>13,18,463.00</b>		<b>4,66,172.00</b>		<b>4,87,850.00</b>		<b>12,96,785.00</b>	
<b>Net Receipts</b>								<b>21,678.00</b>	

Sd/-  
Accounts Officer

Sd/-  
Admn. Officer

Sd/-  
Director

Sd/-  
Chartered Accountants

# ALL INDIA INSTITUTE OF SPEECH AND HEARING: MYSORE 570 006

## Sundry Debtors for Deposits and Advances: 2003-04

							Schedule-H		
Sl. No.	Particulars	Opening balance 1.4.2003		Debits/ Payments		Credits/ Receipts		Closing balance 31.3.2004	
		Rs.	Ps.	Rs.	Ps.	Rs	Ps.	Rs.	Ps.
<b>A. Permanent</b>									
1	Karnataka Power Transmission Corporation Ltd., (3MMD)	4,97,340.00			0.00		0.00	4,97,340.00	
2	Telephone - Department of Telecommunication	19,400.00			0.00		0.00	19,400.00	
3	M/s. Little Gas Co. Kitchen equipment system.	23,500.00			0.00		0.00	23,500.00	
4	KPTCL/MESCOM		0.00	91,583.00			0.00	91,583.00	
<b>B. Temporary</b>									
1	Deputy Controller of Accounts, Dept. of Supplies	3,693.11			0.00		0.00	3,693.11	
2	PF A/c. with MGPO, Mysore SB A/c.839050*	17,12,344.00		62,63,924.00		51,03,959.00		28,72,309.00	
3	Pension fund A/c with Bank of Baroda SB A/c 177	6,87,314.99		96,10,846.00		86,94,983.00		16,03,177.99	
4	Advances -Suppliers	15,81,110.76		1,77,77,952.17		1,78,59,615.62		14,99,447.31	
5	Short-term fixed deposit with Bank	5,52,82,587.00		8,49,84,631.00		7,55,32,419.00		6,47,34,799.00	
6	Loan with AIISH Departmental Canteen	28,479.00		1,85,809.00		32,000.00		1,82,288.00	
7	Internal Revenue A/c with Bank of Baroda SB A/c No.196	38,987.36			0.00		0.00	38,987.36	
8	SB A/c No. C & I 12 with State Bank of Mysore	1,515.50			0.00		0.00	1,515.50	
<b>Total</b>		<b>5,98,76,271.72</b>		<b>11,89,14,745.17</b>		<b>10,72,22,976.62</b>		<b>7,15,68,040.27</b>	
<b>Net Payment</b>								<b>1,16,91,768.55</b>	

\* includes Rs.61,445.70 interest deposited to MGPO

Sd/-  
Accounts Officer

Sd/-  
Admn. Officer

Sd/-  
Director

Sd/-  
Chartered Accountants



**ALL INDIA INSTITUTE OF SPEECH AND HEARING: MYSORE 570 006**

**Investment 2003-04**

**Schedule-I**

Sl.No.	Particulars	balance as on 1.4.2003		Additions/ Payments		Realizations/ Receipts		Balance as on 31.3.2004	
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
<b>A. Contributory/General Provident Fund:-</b>									
1.	Government Securities	1,40,000.00		0.00		0.00		1,40,000.00	
2.	Units with Units Trust of India	16,00,000.00		0.00		0.00		16,00,000.00	
3.	Fixed deposits with Bank of Baroda	60,49,227.00		15,00,000.00		0.00		75,49,227.00	
4.	Deposit with KPTC Ltd.	10,00,000.00		0.00		10,00,000.00			0.00
<b>B. Pension Fund:-</b>									
1.	Government Securities	2,50,000.00		0.00		0.00		2,50,000.00	
2.	Units with Units Trust of India	38,40,000.00		60,00,000.00		38,35,800.00		60,04,200.00	
3.	Deposit with Bank of Baroda	60,14,950.00		3,37,708.00		0.00		63,52,658.00	
<b>C. Others: (CMD/Donations/PWF):-</b>									
1.	Fixed deposit with State Bank of Mysore (PWF)	1,15,496.00		1,16,020.00		1,00,504.00		1,31,012.00	
2.	Fixed deposit with Bank of Baroda (CMD)	3,78,723.00		30,302.00		0.00		4,09,025.00	
3.	Fixed deposit with Bank of Baroda (Donations)	4,39,429.00		14,69,304.00		0.00		19,08,733.00	
4.	Fixed deposit with Bank of Baroda (CSD)		0.00	94,10,775.00		75,00,000.00		19,10,775.00	
<b>D. Endowment funds:-</b>									
1.	Units with Units Trust of India:Mother of the year award: Dr.Prathibha Karanth	10,000.00		50,000.00		0.00		60,000.00	
2.	Fixed deposit with Bank of Baroda: Abhilash award: Smt. India Kumari	5,000.00		0.00		0.00		5,000.00	
<b>Total</b>		<b>1,98,42,825.00</b>		<b>1,89,14,109.00</b>		<b>1,24,36,304.00</b>		<b>2,63,20,630.00</b>	
<b>Net Payment</b>								<b>64,77,805.00</b>	

Sd/-  
Accounts Officer

Sd/-  
Admn. Officer

Sd/-  
Director

Sd/-  
Chartered Accountants



**ALL INDIA INSTITUTE OF SPEECH AND HEARING: MYSORE 570 006**  
**ADIP Scheme (Government of India, Ministry of Social Justice and Empowerment)**  
**Balance Sheet as at 31st March 2004**

Schedule-J

Liabilities	Amount				Assets	Amount			
	Current year		Previous year			Current year		Previous year	
	Rs.	Ps.	Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
Capital Fund:-					Closing Balance :-				
Opening balance	16,85,913.88		16,48,547.88		Closing stock of hearing aids	2,42,121.00		1,30,098.00	
Less: Excess of expenditure over income	11,01,606.00				Amount due from AIISH			14,330.50	
Add: Excess of Income over Expenditure		0.00		37,366.00	Bank of Baroda SB A/c No. 184	3,42,186.88		15,90,295.38	
O/S liability - Audit fee payable		0.00		420.00					
Amount due to AIISH		0.00		48,390.00					
Total	5,84,307.88		17,34,723.88		Total	5,84,307.88		17,34,723.88	

Sd/-  
Accounts Officer

Sd/-  
Admn. Officer

Sd/-  
Director

Sd/-  
Chartered Accountants

**ALL INDIA INSTITUTE OF SPEECH AND HEARING : MYSORE 570 006**

**ADIP Scheme (Government of India, Ministry of Social Justice and Empowerment)**

**Income and Expenditure account for the year ended 31st March 2004**

Schedule J-1

Expenditure	Amount						Income	Amount			
			Current year		Previous year			Current year		Previous year	
	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
Opening stock	1,30,098.00						Grants from Ministry of Social Justice & Empowerment	18,00,000.00		25,00,000.00	
Add: Purchases 2003-04	29,32,014.00						Interest on S.B.A/c. 184	19,452.00		21,974.00	
	30,62,112.00										
Less: Closing stock	2,42,121.00		28,19,991.00		24,36,218.00		Excess of expenditure over income carried to Balance Sheet	11,01,606.00			
Infrastructure assistance			1,00,135.00		47,970.00						
Contingencies - Audit fees	1,352.00										
Less Outstanding 2001-02	420.00		932.00		420.00						
Excess of income over expenditure transferred to balance sheet					37,366.00						
Total			29,21,058.00		25,21,974.00			29,21,058.00		25,21,974.00	

Sd/-  
Accounts Officer

Sd/-  
Admn. Officer

Sd/-  
Director

Sd/-  
Chartered Accountants

**ALL INDIA INSTITUTE OF SPEECH AND HEARING: MYSORE 570 006**  
**ADIP Scheme (Government of India, Ministry of Social Justice and Empowerment)**  
**Receipts and Payments account for the year ended 31st March 2004**

Schedule J-2

Receipts	Amount				Payments	Amount			
	Current year		Previous year			Current year		Previous year	
	Rs.	Ps.	Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
Opening Balance									
SB A/c with BOB - 184	15,90,295.38		9,63,107.38		Purchase of hearing aids	29,32,014.00		18,74,796.00	
Less: Amount due to AIISH	34,059.50		19,990.00		Paid towards infra structural assistance	1,00,135.00			
	15,56,235.88		9,43,117.38		Contingencies	1,352.00			
Grants from Ministry of Social Justice and Empowerment, GOI	18,00,000.00		25,00,000.00		Closing balance				
Interest S.B A/c	19,452.00		21,974.00		S.B A/c with BOB - 184	3,42,186.88		15,90,295.38	
Total	33,75,687.88		34,65,091.38			33,75,687.88		34,65,091.38	

Sd/-  
Accounts Officer

Sd/-  
Admn. Officer

Sd/-  
Director

Sd/-  
Chartered Accountants

**Replies to the observations on the Accounts of the institute for the year ended 31.3.2004**

Sl.No.	Observations of the Chartered Accountants	Replies
1.	The institute is administering a Provident Fund and a Pension Fund for the benefit of its employees. These funds are held by the institute itself currently. In order to fall in line with the requirement of the relevant laws, the institute is to create a Trust which is independent of the institute to administer these funds independently with the necessary approvals from the appropriate authorities including Income tax authorities. Preferably two Trusts are to be created separately and the current accumulated funds are to be transferred to the respective Trust for administering the above funds henceforth. The institute can ensure effective implementation of the scheme of Provident Fund and Pension Fund. This would certainly be complying with the provisions of Law and is to be complied with.	The matter is being referred to the Ministry of Health & Family Welfare, Government of India.
2.	The institute has not provided for depreciation in respect of fixed assets for the year based on certain clarification by the C & AG of India.	The matter is being referred to C&AG of India to know the latest position on review, if any.

Sd/  
M/s. Aswathanarayana & Co.,  
Chartered Accountants

Sd/  
DIRECTOR