

# ANNUAL REPORT

## 1997 - 1998



**ALL INDIA INSTITUTE OF SPEECH AND HEARING**  
**MANASAGANGOTTHRI, MYSORE - 570006**

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## INTRODUCTION

All India Institute of Speech and Hearing, Mysore, the first of its kind in the whole of South-East Asia, came into being on August 9, 1965 under the aegis of the Union Ministry of Health and Family Welfare, and is wholly financed by the Government of India. The Institute is registered as a Society under the Societies Registration Act XXII of 1960 (Punjab Amendment) Act 1957, and is functioning as an autonomous body.

The main objectives of the Institute are imparting professional training, rendering clinical services, undertaking research and rehabilitation in the field of communication disorders. The University of Mysore has accorded permanent affiliation for teaching programmes leading to the award of B.Sc., M.Sc., and Ph.D., degrees in Speech and Hearing. The Institute also conducts short-term/refresher and orientation training programs.

The following are the departments concerned with the academic and professional activities of the Institute.

1. Audiology
2. Clinical Psychology
3. Electronics
4. Otorhinolaryngology
5. Speech Pathology
6. Speech Sciences

The departments are actively engaged in teaching, clinical and research activities in addition to collaborating with other Institutions in such activities. Workshops/Seminars and Conferences, besides public education programs, were also conducted. The Institute has been recognized by the Government of India as an advanced centre for training and clinical services in the field of speech and hearing.



A full-fledged clinic serves as a practical training ground to the trainees in diagnostic evaluation, treatment, counselling and rehabilitation facilities for not only the speech and/or hearing handicapped but also in psychological and/or otorhinolaryngological problems.

Ever since its inception, speech and/or hearing-impaired from both within and outside the country have been availing the clinical services provided in the Institute premises. Facilities are also available for evaluation of patients of all ages having problems, such as, voice, speech, language, hearing and also those with mental retardation and/or otorhinolaryngological involvements. The involvement of highly qualified and experienced professional staff of the Institute as well as of the medical specialists of the Krishnarajendra Hospital, Mysore, in these activities ensures expert services to the population concerned.

Patients are referred to the Institute by local as well as by out-station medical professionals, teachers from schools and the District Rehabilitation Centre (Ministry of Welfare), Government of Karnataka. This indicates the reputation and the ever-increasing area of function the Institute has established over the years.

The main avenues utilized by the Institute for disseminating information related to the various activities ranged from newspapers, articles and public education pamphlets, radio talks, exhibitions, audio-visual presentations besides publishing a specialized Journal, namely the Journal of All India Institute of Speech and Hearing.



## OBJECTIVES OF THE INSTITUTE

The objectives of the Institute as enshrined in the Memorandum of Association are as follows:

### I Training

- a) To provide and assist in providing general, professional and technical education and training in Speech and Hearing for graduate, post-graduate and doctorate courses of a University.
- b) To provide and assist in providing general, professional and technical education and training to various categories of personnel e.g. medical, para-medical, non-medical, etc.
- c) To undertake, organize and facilitate study courses, conferences, lectures, seminars and the like to promote the above mentioned objectives.
- d) To undertake and provide for publication of journals, research papers, etc., and to establish and maintain libraries and information services in furtherance of the objectives of the Society.
- e) To invite representatives of governments, universities and other organizations of India and of foreign countries to deliver lectures on subjects in which the Society is interested.
- f) To co-operate with international agencies engaged in speech and hearing research and training and arrange for exchange of personnel, material and data.
- g) To institute, offer and grant prizes, awards, scholarships, research grants and stipends in furtherance of the objectives of the Society.

## **II. Research**

a) To provide and assist in providing facilities and encouragement to research in speech and hearing, their disorders and the concerned diseases of ear, nose and throat.

## **III. Clinical Services**

a) To provide and assist in providing clinical and surgical services for those with speech and hearing handicaps and ear, nose and throat diseases.

b) To assist in the development of speech and hearing clinics in hospitals and other centres.

## **IV .Public Education**

a) To educate the public about persons with communicative disorders.

b) To stimulate interest in speech and hearing through publicity and mass communication and to cooperate with other agencies and institutions of professional associations.

## **V. Administration and Financial**

a) To create administrative, technical, ministerial and other posts under the Society and to make appointments thereto in accordance with the rules and regulations of the Society.

b) To appoint and hire services or discharge/terminate the services of personnel and to pay them in return for the services rendered to the Society, salaries, wages, gratuities, provident fund and other allowances or remuneration in accordance with the rules and regulations of the Society.

- c) To borrow and raise money and funds to further the objects of the Society and to raise or collect funds by gifts, donations, subscriptions or otherwise of cash and securities and any property either movable or immovable and to grant such rights and privileges to the donors, subscribers, and other benefactors as the Society may consider fit and proper.
- d) To invest and deal with funds and money of the Society.
- e) To subscribe to, or become a member of, or to cooperate or amalgamate with any other association or Society whose objects are similar.
- f) To sell, assign, mortgage, lease, exchange and otherwise transfer or dispose of all or any property movable or immovable, of the Society for the furtherance of its objects or any of them, provided prior approval of the Central Government is obtained for any disposition of immovable property.
- g) To negotiate and enter into contracts on behalf of the Society and vary and rescind such contracts.
- h) To accept and undertake the management of any endowment or trust fund or donation to further the objectives of the Society.
- i) To establish a contributory provident fund and gratuity for the benefit of the employees of the Society.
- j) To pay all costs, charges and expenses incurred in the promotion, formation, establishment and registration of the Society.
- k) To do all such other lawful acts, deeds, things either alone or in conjunction with other organization or persons as the Society may consider necessary, incidental or conducive to the attainment of the above mentioned objectives or any of them.
- l) To undertake any other function that may be assigned to the Society by the Ministry of Health and Family Welfare (Department of Health), Government of India in connection with speech and hearing.



**GOVERNING AUTHORITIES OF THE INSTITUTE****EXECUTIVE COUNCIL**

Hon'ble Union Minister  
for Health & Family Welfare  
Government of India  
Nirman Bhavan  
NEW DELHI 110 011.

Chairman

Hon'ble Minister for  
Health & Family Welfare  
Government of Karnataka  
Vidhana Soudha  
BANGALORE 560 001.

Vice-Chairman

Secretary to  
Government of India  
Ministry of Health & Family Welfare  
Government of India  
Nirman Bhavan  
NEW DELHI 110 011.

Member

Director General of  
Health Services  
Government of India  
Nirman Bhavan  
NEW DELHI 110 011.

Member

Additional Secretary (Health)  
Ministry of Health &  
Family Welfare, Government of India  
Nirman Bhavan  
NEW DELHI 110 011.

Member

Joint Secretary (FA)  
Government of India  
Ministry of Health & Family Welfare  
Nirman Bhavan  
NEW DELHI 110 011

Member

Joint Secretary to  
Government of India  
Ministry of Welfare  
Snastri Bhavan  
NEW DELHI 110 001.

Member

Joint Secretary to  
Government of India  
Ministry of Health & Family Welfare  
Nirman Bhavan  
NEW DELHI 110 011.

Member

Secretary to  
Government of Karnataka  
Department of Health and Family Welfare  
Multistoreyed Building  
BANGALORE 560 001.

Member

Director of Medical Education  
Government of Karnataka  
Ananda Rao Circle  
BANGALORE 560 009.

Member

Vice-Chancellor  
University of Mysore  
Crawford Hall  
MYSORE 570 005.

Member

Three nominees of Chairman,  
Executive Council

Members

One nominee of the Director, AIISH

Member

Director,  
All India Institute of  
Speech and Hearing  
MYSORE 570 006.

Member-Secretary

### FINANCE SUB-COMMITTEE

Additional Secretary ( Health )  
Ministry of Health & Family Welfare  
Government of India  
Nirman Bhavan  
NEW DELHI 110 011.

Chairman

Director General of Health Services  
Government of India  
Nirman Bhavan  
NEW DELHI 110 011.

Member

Joint Secretary (FA)  
Ministry of Health and Family Welfare  
Government of India  
Nirman Bhavan  
NEW DELHI 110 011.

Member

Secretary to the  
Government of Karnataka  
Department of Health & Family Welfare  
Multistoreyed Building  
Dr. BR Ambedkar Road  
BANGALORE 560 001.

Member

Director  
National Institute for Mental Health  
and Neuro-Sciences  
BANGALORE 560 029.

Member

Director  
All India Institute of Speech and Hearing  
MYSORE 570 006.

Member-Secretary



**ACADEMIC SUB COMMITTEE (Under Revision)**

Director Medical Education, Government of Karnataka BANGALORE.	Chairman
Deputy Director General of Health Services Medical Education, Government of India Nirman Bhavan NEW DELHI.	Member
Director Central Institute of Indian Languages MYSORE	Member
Heads of Departments of Audiology Speech Pathology, Speech Sciences, ENT, Clinical Psychology, Electronics All India Institute of Speech and Hearing, MYSORE 570 006.	Members
Professor Emeritus, NIMHANS BANGALORE.	Member
One Representative from University of Mysore University of Mysore MYSORE.	Member
Director Institute of Speech & Hearing BANGALORE.	Member
Principal Government Medical College MYSORE 570 021.	Member
Director All India Institute of Speech & Hearing MYSORE 570 006.	Member-Secretary

## **FROM THE DESK OF THE DIRECTOR HIGHLIGHTS OF THE YEAR 1997-98**

The highlights of the year coincide with the activities planned to commemorate the Golden Jubilee of the Indian Independence. The Ministry of Health and Family Welfare had prepared a calendar of events wherein AIISH had been assigned a number of activities to be carried out during the year. The staff and students contributed enthusiastically to the successful achievement of the goals set forth in the calendar, often adding further programs. A brief summary is given below:

### **Report on the events for commemoration of 50th Anniversary of India's Independence:**

The activities for commemoration of the 50th Anniversary of India's Independence was started with the celebration of "Independence Day" at the Institute. The formalities were observed with full enthusiasm. The staff, students, parents/guardians of the children undergoing therapy for speech and hearing participated. The children were in full white dress with tricolor bands. One was Pundit Jawaharlal Nehru, the second was Sardar Patel and the third was Abu Kalam Azad. These children also sang patriotic songs.

In September, the staff and students staged street plays in four villages, to increase the awareness regarding speech and hearing problems. The focus was on the early identification of speech and hearing impairments and the facilities available at the Institute. There was full support from the people and the local leaders.

One hundred and thirtytwo letters were sent to the hearing aid users listed in the directory meant for this purpose, inviting them to enquire about their problems if any, in using the hearing aids. Press and radio announcements were also made to get maximum response. Suitable suggestions were provided to overcome their problems on a one-to-one basis.

As per the program received from the Ministry of Health and Family Welfare, freedom fighters were the focus of attention in the second week of December. They were given free hearing tests; some also received free hearing aids. The Student's Association of the Institute had their own plans for the freedom fighters - a program of song and dance by the students was the grand finale of the day's activities.

The month of December saw the industrial workers and also their family members undergoing hearing test and orientation programs. Since noise-induced loss is one of the preventable causes of hearing loss, AIISH has taken the initiative in conducting a hearing conservation program for the industrial workers which has proved quite popular. Several industries in and around Mysore have collaborated with the AIISH in making this endeavor a successful one.

In the last week of December, the officers and staff of various banks located in Mysore also benefitted from an orientation program specifically arranged for them. The creativity of the AIISH staff and students came to the fore in using the vocabulary of the banking fraternity such as 'account', 'maturity', 'investment' in impressing on them the importance of getting their hearing checked periodically.

Pulse Polio programs conducted nation-wide had an added dimension in Mysore City. The parents were in for a pleasant surprise at their children receiving free hearing screening tests and orientation talks regarding identification and prevention of speech and hearing problems in their children. This program was conducted on December 7 covering 2317 children in nine different parts of the City, thus fulfilling the target given for the month of December - that of testing children and infants.



The Institute has shown concern for the hearing aid users through conducting regular follow-up programs aimed at giving them guidance and assistance beyond the counselling sessions held initially at the time of hearing aid issue. In keeping with this convention, more than 100 hearing aid users were invited through letters, radio and press announcements. Around 60 responded and returned happy at the assistance provided.

Conducting camps in, around and outside Mysore has become one of the popular extension activities of the Institute. Acoustic camp held during March was an occasion to lay emphasis on the various aspects of sound - its production, transmission and reception with special reference to the objectives of the Institute. More than 300 people went around the hall where the exhibits were displayed. Considering how successful it was, it is proposed to make this program an integral part of the extension services.

Come February 1998, it was time to release the audio-visual resource material prepared by the Institute for increasing the awareness regarding communication disorders. The video-cassettes entitled (a) Hearing Aid Care, (b) Ear and Hearing, and (c) Communication Disorders, were released by Dr.S.N.Hegde, Vice Chancellor, University of Mysore.

The much awaited exhibition of the arts and crafts items made by the handicapped receiving therapy at the Institute was arranged in the month of May. The response as expected was tremendous both in the number of exhibits and in public participation.

Distribution of hearing aids to the hearing-impaired children and adults is a satisfying activity all round. It is a happy culmination of identifying the hearing-impaired, evaluating them and find a hearing aid meeting their requirement. None other than the first citizen of Mysore, the Worshipful Mayor took a leading part in the program. The recipients of the hearing aids were also counselled regarding the use of the hearing aids and a number of public education pamphlets prepared for this purpose were distributed free.

The Institute conducted all the activities listed in the program for prevention, identification and rehabilitation for speech and hearing impairments. In addition efforts were intensified to cover a larger number of school-going children, the geriatric population and infants in the maternity wards in the city's local hospitals.

### **Fiscal matters:**

The Institute continued to get additional grants for taking up developmental activities. The Ministry of Health & Family Welfare has communicated sanction of Rs.200/- lakhs under Plan and Rs.170/- lakhs under Non-Plan. Further, Rs.30/- lakhs for the year has been sanctioned for taking up a project on Prevention of Deafness which will help in focussing our attention on the preventive aspects of hearing impairment.

### **Internal revenue:**

Attempts made to raise additional revenue for services provided has paid off. During the year, additional sources for generation of funds identified were: charges for copies of audiogram, for immittance and BSERA test results, for utilising clinical/laboratory facilities, charges for custom made earmolds for patients who get fully subsidised hearing aids under the ADIP Scheme of the Ministry of Social Welfare and Empowerment, Govt. of India.

It was also decided to revise upwards the charges levied for issue of certificates for purposes of certification by ASHLA, for conducting short term training programs and for external consultancy.

### **External assistance:**

WHO assistance in the form of supplies and fellowships has been received by the Institute since 1992. For the biennium of 1998-2000, assistance to the magnitude of \$2,85,000 has been sanctioned in the form of equipment, expenditure towards workshops, preparation of training modules and upgradations of centres outside Karnataka.

One of the staff members was awarded a WHO fellowship to undergo training in the maintenance of bio-medical equipment in several centres in Europe. With this training, the latest technology available in the management of the communicatively handicapped will be utilised further.

### **Hearing Aids:**

As in previous years, camps for hearing aid users were conducted at frequent intervals. It is hoped that the hearing aid users would form a club of their own. As a precursor, lucky dip and quiz programs were included in the camp activities.

Regular followup of the hearing aid users has paid rich dividends. Continuous feed-back on the satisfied and not-so-happy users has helped in fine tuning the services provided to the hearing aid users and in providing a rich training ground for the student-trainees.

### **Staff:**

Suitable candidates for several Group 'A' posts were selected. Filling up of these posts would augment the existing manpower for academic activities. However, to attract and retain qualified and experienced staff the pay scales and promotional avenues must be improved upon. Even though the recommendations of the Finance Sub-Committee and the approval of the Executive Council have been communicated to the Ministry, the communication approving the implementation of these recommendations continues to be awaited.

Financial incentives to the staff for conducting short-term training program and computer training and for conducting camps for the patients attending therapy have been given.



### **Training:**

A new dimension was added to the training program by conducting workshops for the students in preparing acoustic terminology. It is proposed to make such workshops a part of the regular training program.

The Finance Sub-Committee in its meeting has approved introduction of the Earn-While-You-Learn Scheme to serve multiple purposes; that of providing more practical training of increasing available/quality manpower at nominal costs and of improving the training program qualitatively.

### **Publicity & public awareness:**

Preparation of a video cassette covering the Institute's activity in a comprehensive manner for national viewership was long overdue. Due to the excellent co-operation and co-ordination of the staff in the various departments of the Institute, the students and patients, an excellent video cassette entitled 'Opening the doors of Silence' has been produced with professional assistance. Commentary in English, Hindi and the regional language-Kannada will ensure reaching wide population hitherto not reached.

The Institute is also grateful to Shri T.S.Satyan, the Photojournalist of International repute for taking slides of the various professional activities of the Institute. These slides are being used for preparation of translites, picture postcards and calendars.

Throughout the year, the Institute received good press coverage. The Institute participated in the Annual Dasara Exhibition sponsored by the Govt. of Karnataka and the Science Exhibition organised by the University of Mysore

### **Patients Related Matters:**

The number of patients seen during the year under report shows an increase in all age groups and in both males and females. Whereas in 1993-94 over 19000 patients were seen, during 1997-98 almost 27000 patients were seen. The increase was both in number of new patients as well as in the number of patients that come for repeat evaluations and follow-up. This indicates the confidence the patients have developed in the services offered by the institute. It is heartening to note that the number of female patients in all age groups has increased significantly.

### **Instruments:**

During the year 1997-98 various biomedical and measuring instruments were procured to increase the training, research and clinical activities. Six computers were upgraded from XAT 386 to pentium 200 MMX and pentium 100 MX to facilitate documentation of patient information, accounts and administrative information. An instrument to indicate nasality of speech, that is N indicator was fabricated at our Institute which is efficient and cost effective.

Installation of professional tape recorders with high quality recording facilities, softwares like doctor's Speech, neural networks and SSL with accessories helped extensively in improving the quality and extent of patient evaluation for example, to differentially diagnose various voice disorders and to rate the degree of hoarseness. To reinforce community based rehabilitation (CBR) two audioscopes, portable AEP system and immitance meter were procured. With this addition we were able to double the number of patients being tested. Advanced technology in the newly procured rehabilitation instruments, like FM hearing aids have achieved the requirements of patients.

In research, the state-of-the-art instruments enabled us to have better control and manipulation of different speech parameters. Using SSL softwares, tokens for intelligibility rating are generated and recorded on the professional taperecorders for further research.

## REPORT OF THE DEPARTMENTS/SECTIONS

### 5. TRAINING

The primary objective of the Institute is to train under-graduate, post-graduate and doctoral students in the field of Speech and Hearing to serve the speech and hearing handicapped in India. The Student trainees are given training as per the course of study approved by the University of Mysore.

Periodical tests are conducted and assignments are given by the academic staff to the students. Annual examinations of B.Sc., M.Sc., as well as supplementary examination for B.Sc., are conducted as prescribed in the Manual of Conduct of Examinations issued by the University of Mysore.

#### A. Undergraduate and Post-graduate Programmes:

##### a. Admission Details:

A total of 255 applications for B.Sc., and 59 applications for M.Sc., were received. Selection Committee Meetings were held on 7.7.1997 and 1.8.1997 for B.Sc. and M.Sc. respectively and admissions for I B.Sc., & I M.Sc., were made according to the rules and regulations of the University of Mysore. The zone wise distribution of students admitted is as follows:

	I B.Sc.,		I M.Sc.,	
	Male	Female	Male	Female
General Merit	1	3	3	14
North Zone	3	2	**	**
East Zone	5	*	**	**
West Zone	1	3	**	**
South Zone	*	4	**	**
SC/ST	2	4	2	2
Foreign	1	2	**	**
(Nepal & Abu-Dabi)				
Inservice	**	**	*	*

\* No candidates \*\* Not applicable



## 5.2

### b. Students enrolled in the course

B.Sc.,			M.Sc.,		
I	II	III	I	II	
M F	M F	M F	M F	M F	
13 18	14 15	9 22	5 16	9 14	
31	29	31	21	23	

### c. Annual Examination Results

	No. of Passes		
	I Class	II Class	III Class
III B.Sc.	20	3	2
II M.Sc.	15	8	-

### d. Merit Scholarships

Ten AIISH Merit Scholarships each for I, II and III B.Sc. students were awarded and five and six scholarships were awarded for I and II M.Sc. students respectively.

### e. No. of courses taught:

Name of the Department	B.Sc.			M.Sc.	
	I	II	III	I	II
Audiology	1	2	3	2	2
Cli. Psychology	1	1	3	2	1
Electronics	1	*	*	*	1
Oto-rhino-laryngology	*	1	*	1	*
Speech Pathology	1	1	3	1	2
Speech Sciences	1	1	*	1	*

\* Not applicable

Faculty from Mysore Medical College were appointed to teach Anatomy, Physiology, Pathology and Paediatrics to the B.Sc. students and Neurology to the B.Sc. and M.Sc. students. Kannada and Assamese were taught to I B.Sc. students.

#### f. Dissertations and Independent Projects

Post-graduate students carried-out dissertations and independent project work under the guidance of the Institute staff. Following tables show the projects and dissertations undertaken during the year.

**Table-1 Dissertations completed**

Sl.No.	Reg.No.	Title	Guide
1.	M9501	Speech Motor Programming in Adult Stutterers.	Dr.S.R. Savithri
2.	M9502	Acoustic Analysis of Musical Notes.	Dr.N.P.Nataraja
3.	M9503	Naming Deficits in Bilingual (English-Hindi) Aphasics.	Dr.K.C.Shyamala
4.	M9504	LPT in Malayalam	Dr.K.C.Shyamala
5.	M9505	LPT in Tamil.	Dr.K.C.Shyamala
6.	M9506	Laterality in Stutterers Using Word Association Task.	Dr.S.R.Savithri
7.	M9507	Prosodic Features in the Pre-Post Therapy Speech of Stutterers.	Dr.S.R.Savithri

Sl.No.	Reg.No.	Title	Guide
8.	M9508	Cross Language Study of Speech Perception.	Dr.N.P.Nataraja
9.	M9509	Effect of First Language on the Production and Perception of Speech.	Dr.N.P.Nataraja
10.	M9510	Analysis of Voice of Dysphonics Before and After Treatment.	Dr.N.P.Nataraja
11.	M9511	Effect of Pitch on Vocal Fatigue.	Dr.N.P.Nataraja
12.	M9512	Acquired Aphasia in Children	Dr.K.C.Shyamala
13.	M9513	Synthesis of the Speech of the Hearing-Impaired.	Dr.N.P.Nataraja
14.	M9514	Aerodynamic Parameters : Normative Data From Aerophone-II.	Dr.N.P.Nataraja
15.	M9515	Comparison of Transient Oto-Acoustic Emission and Distortion Product Oto-Acoustic Emission in Subjects with SN Hearing Loss.	Ms. C.S. Vanaja
16.	M9516	Naturalness Rating in the Post-Therapy Speech of Stutterers.	Dr.S.R.Savithri
17.	M9517	Naming Deficits in Bilingual Aphasics.	Dr.K.S.Shyamala



Sl.No.	Reg.No.	Title	Guide
18.	M9518	Speaker Verification by Spectrograms.	Dr.N.P.Nataraja
19.	M9519	Cross-Language Study of Speech Perception - Tamil and Malayalam.	Dr.S.R.Savithri
20.	M9520	A Scale for Naturalness Rating of the Speech of Stutterers.	Dr.S.R.Savithri
21.	M9521	Laryngeal and Acoustic Analysis of the Speech of Stutterers.	Dr.N.P.Nataraja
22.	M9522	Acoustic Analysis of TEP Tests.	Dr.N.P.Nataraja
23.	M9523	Evaluating the Efficacy of Therapy in A Multilingual Agrammatic.	Dr.K.C.Shyamala

**Table-2: Independent Projects completed**

Sl.No.	Reg.No.	Title	Guide
1.	M9601	Susceptance and Conductance Tympanograms in Patients with Conductive Pathology.	Ms. C.S.Vanaja
2.	M9602	Use of Selected Earmold Modifications on Patients.	Dr.S.Nikam

Sl.No.	Reg.No.	Title	Guide
3.	M9603	Age Related Changes in LLR.	Ms. C.S. Vanaja
4.	M9604	Counselling Parents of Hearing-Impaired - Efficacy of Reading Material.	Dr.S.Nikam
5.	M9605	Hearing Aid Selection Procedure - POGO Vs.Functional Speech Tests.	Dr.Asha Yathiraj
6.	M9606	Aural Handicap, Scholastic Aptitude and Avoire Faire - A Tripartite View.	Dr.S.Nikam
7.	M9607	Causes of Acquired Hearing Loss in Children, Adults and Geriatrics.	Dr.S.Nikam
8.	M9608	Comparison of NAL Procedure with Functional Speech Tests for Hearing Aid Selection.	Dr.Asha Yathiraj
9.	M9609	PEP on Communicative Strategies for Adults.	Dr.Asha Yathiraj
10.	M9610	Public Awareness on Causes of Hearing Loss.	Dr.S.Nikam
11.	M9611	A Review on Speech reading	Dr.Asha Yathiraj.

Sl.No.	Reg.No.	Title	Guide
12.	M9612	Age Related Changes in MLR.	Ms. C.S.Vanaja
13.	M9613	Efficacy of AV Materials in Training Programmes.	Dr.S.Nikam
14.	M9614	Acoustic Camp for School Children.	Dr.S.Nikam
15.	M9615	Prevalence of Middle Ear Problems in Children.	Dr.S.Nikam
16.	M9616	Input-Output Function of DPOAE in Children.	Ms. C.S.Vanaja
17.	M9617	Age Related Changes in P300.	Ms. C.S.Vanaja
18.	M9618	Orientation Programme in Trouble Shooting Body Level Hearing Aids.	Dr.S.Nikam
19.	M9619	A Street Play for Public Awareness on Hearing Loss.	Dr.S.Nikam
20.	M9620	AEPs in the Assessment of Hearing : A Review.	Dr.S.Nikam
21.	M9621	Audiological Evaluation of the Learning Disabled.	Ms. C.S.Vanaja



Sl.No.	Reg.No.	Title	Guide
22.	M9622	A Speech reading Manual for Hearing-Impaired Adults in Kannada.	Dr.Asha Yathiraj
23.	M9623	Input-Output Function of DPOAE in Young Adults.	Ms. C.S. Vanaja

**Table-3: Dissertations under progress**

Sl.No.	Reg.No.	Title	Guide
1.	M9601	Application of Neural Network for Classification of Voice Disorders.	Dr.N.P.Nataraja
2.	M9602	Variables Related to Long-term Average Spectrum of Voice.	Dr.N.P.Nataraja
3.	M9603	Deep Test of Articulation in Hindi	Dr.S.R.Savithri
4.	M9604	Acoustic Analysis of Prosody of Malayalam Speaking Geriatric Population.	Dr.N.P.Nataraja
5.	M9605	CDS in Normal and Hearing - Impaired Children.	Dr.K.C.Shyamala
6.	M9606	Acoustic Analysis of Prosody of Malayalam Speaking Deaf Children.	Dr.N.P.Nataraja

Sl.No.	Reg.No.	Title	Guide
7.	M9607	Acoustic Analysis of Speech in Kannada Speaking Deaf Children.	Dr.N.P.Nataraja
8.	M9608	Acoustic Analysis of Speech of Tamil Speaking Deaf Children	Dr.N.P.Nataraja
9.	M9609	Acoustic Analysis of Speech of Stage Artists.	Dr.N.P.Nataraja
10.	M9610	Acoustic Analysis of Punjabi Speaking Deaf Children	Dr.N.P.Nataraja
11.	M9611	Factors in Normal and Abnormal Voice.	Dr.N.P.Nataraja
12.	M9612	Acoustic Analysis of Speech of Malayalam Speaking Deaf Children.	Dr.N.P.Nataraja
13.	M9613	Acoustic Analysis of Prosody of Kannada Speaking Deaf Children.	Dr.N.P.Nataraja
14.	M9614	Acoustic Analysis of Prosody of Telugu Speaking Deaf Children.	Dr.N.P.Nataraja

Sl.No.	Reg.No.	Title	Guide
15.	M9615	Acoustic Analysis of Speech of CP Children.	Dr.N.P.Nataraja
16.	M9616	Analysis and Synthesis of Hoarse Voice.	Dr.N.P.Nataraja
17.	M9617	Study of Selected Variables in Speaker Identification.	Dr.N.P.Nataraja
18.	M9618	Perception and Production of Stress in Aphasics.	Dr.N.P.Nataraja
19.	M9620	Acoustic Analysis of Prosody of Punjabi Speaking Deaf Children.	Dr.N.P.Nataraja
20.	M9621	Analysis and Synthesis of Speech of Stutterers.	Dr.N.P.Nataraja
21.	M9622	Acoustic Analysis of Prosody in Alaryngeal Speech.	Dr.N.P.Nataraja
M9623		Earlier Diagnosis of Abnormalities Based on Infant Cry Analysis.	Dr.N.P.Nataraja



**Table 4 Independent Projects under progress**

Sl.No.	Reg.No.	Title	Guide
1	M.9701	Comparison of ABR obtained through air-conduction and bone-conduction	Mr.Animesh Barman
2	M.9702	A review on audiological finding in NIHL	Ms.P.Manjula
3	M.9703	Educating the educators on hearing impairment	Dr.Asha Yathiraj
4	M.9704	Verbal auditory training material in Tamil	Dr.Asha Yathiraj
5	M.9705	Efficacy of street plays	Mr.Animesh Burman
6	M.9707	Effect of electrode montage on ABR	Mr.Animesh Burman
7	M.9708	Attenuation of EPDs Communication strategies - an evaluation of its effects on communication needs	Ms. P.Manjula
8	M.9709	Input Output function of DPOAE in SN loss patients	Ms. C.S.Vanaja
9	M.9710	Post-Kernicterus sequelae and hearing loss	Dr.K.Rajalakshmi

Sl.No.	Reg.No.	Title	Guide
10	M.9711	A feasible way to prescribe hearing aids for the mild moderate hearing impairment	Dr.Asha Yathiraj
11	M.9712	Cost-effective alternative devices for hearing screening	Ms. P.Manjula
12	M.9713	Intelligibility of filtered speech	Ms. C.S.Vanaja
13	M.9715	Late evoked potentials in learning disabled children	Ms. C.S.Vanaja
14	M.9716	Comparison of ABR obtained using tone burst and clicks	Ms. C.S.Vanaja
15	M.9717	Communication strategy evaluation of its effects on communication needs of the hearing impaired	Dr.Asha Yathiraj
16	M.9718	Acoustic spectrum of noise makers	Ms. P.Manjula
17	M.9719	A video script on prevention of hearing loss	Dr.K.Rajalakshmi
18	M.9720	Review of Non-audiological tests in detection of auditory disorders	Ms. C.S.Vanaja

Sl.No.	Reg.No.	Title	Guide
19	M.9721	Review on systemic diseases and hearing loss	Dr.K.Rajalakshmi
20	M.9722	Tinnitus - a review of literature from 1991/97	Mr.Animesh Barman
21	M.9723	Speech Identification test for children in Kannada	Dr.Asha Yathiraj

g. **Clinical Practicum at AIISH** : The Students were posted to various Departments. The number of hours of postings to different Departments are as follows :

i. Diagnostics

	B.Sc.			M.Sc.	
	I	II	III	I	II
Audiology	992	1740	3100	1260	2300
Cli. Psychology	992	1640	3100	1200	1150
Electronics	992	*	*	*	1150
Oto-rhinolaryngology	*	1740	*	1200	*
Speech Pathology	496	870	3100	630	2300
Speech Sciences	496	870	*	630	*

ii Therapy \*\*      3968   10960   9300      5040      6900

\* No postings

\*\*For patients of all ages and various communication disorders such as hearing-impaired, delayed speech, misarticulation, voice disorders, stuttering, aphasia, learning disabilities, etc.



### **Extention Services - Field work**

The extension services involved student postings in Krishnarajendra Hospital, Mysore to Paediatric, Adult and Psychiatry Wards, Physiotherapy and Plastic Surgery Units, Infant Screening, School Screening and Screening the Geriatric Population in Old Age Homes.

#### **h.. Awards:**

(1) Ms. Shanthala M.S. received the Arathi Venkataraman Gold medal for securing highest marks in M.Sc., and Manohar Gold medal for securing highest marks in Speech Pathology from the University of Mysore. She also received the best Student Clinician award from AIISH.

(2) Mr. Aniketh Saoji, I M.Sc. student received the 'Best Paper Award' in Audiology at the Indian Speech & Hearing Association Conference, 1998.

(3) Mr. Prakash & Mr. M.S. Saji, III B.Sc. students received 'Best Paper Award in Speech Pathology at the Indian Speech & Hearing Association Conference, 1998.

(4) Mr. Arvind N., Ms. Anu Subramanian and Mr. Sanjeev Kanchan, II M.Sc. students received best student paper award at the Madras-India Regional Conference of the Acoustical Society of America, 1998.

(5) Mr. Shibu P Joseph, II M.Sc. student received the Best Dancer award by the Govt of Karnataka State and he was selected for the Gujarat NSS Camp.

**i. Doctorates**

1. Candidates working for Ph.D.,	9
2. Candidates who were awarded Ph.D.,	2
3. Candidates registered	2

**j. Guest Lectures:** Fourteen guest lectures were held during the year for the benefit of staff and students.

Sl. No.	Name of the Faculty	Subject	No. of Guest lecture held
1.	Dr.K.D.Pavate Chairman, Acoustic Sectional Committee Bureau of Indian Standards	Electroacoustics and Recordings	1
2.	Dr.Ramakrishna Scientist, Centre for Electronic & Electrical Research, New Delhi.	Acoustics of Speech	1
3.	Dr.Bhaskar Rao Professor Tokyo University of Foreign Studies Tokyo, Japan	Sounds of Language	2
4.	Dr.Prathibha Karanth Visiting Professor, Institute of Speech & Hearing Bangalore	Brain and Language Behavior, Historical Aspects of Aphasiology	3
		Diagnosis, Classification and Assessment of Aphasia	3
		Language Therapy for Aphasia	2

Sl. No.	Name of the Faculty	Subject	No. of Lecture held	Guest
5.	Dr.B.Rajashekhar Professor & Head (Speech & Hearing) Manipal Academy of Higher Education Manipal	Laryngectomy	1	
		Cochlear Implants	1	

#### **K. Short term training programme**

24 Short term training programmes were conducted as follows :

Sl. No.	Topic	Department	Trainees from
1.	Hearing Aid repair	Electronics	Teachers, Association for Rehabilitation of the Disabled, Bangalore, Karnataka
2.	Body Level and Ear Level Hearing Aids	Audiology	-do-
3.	Misarticulations	Sp.Pathology	Teachers, Sanjay School for the Deaf, Goa.
4.	Causes of Hearing Loss	Audiology	-do-
5.	Speech & Language Development of the Hearing Impaired	Sp.Pathology	-do-

Sl. No.	Topic	Department	Trainees from
6.	Speech reading	Audiology	-do-
7.	Language Assessment in Children & Adults	Sp.Pathology	-do-
8.	Speech Production	Sp.Science	-do-
9.	Hearing Aid Care & Trouble Shooting	Audiology	Teachers, Sanjay School for the Deaf, Goa.
10.	Auditory Training	Audiology	-do-
11.	Hearing Aid Repair	Electronics	-do-
12.	Earmould Making	Audiology	Technician, M. V. Shetty College, Mangalore
13.	Hearing Aid Repair	Electronics	Community Based Rehabilitation Centre Kanakapura, Karnataka
14.	Speech reading	Audiology	Teachers of the Deaf. Sai Ranga Vidya Samsthe, Mysore Karnataka



Sl. No.	Topic	Department	Trainees from
15.	Earmould Making	Audiology	Lab Technician, Sata Sringa Vidya Samsthe, Bangalore Karnataka
16.	Earmould Making	Audiology	Project Asst. SCL Mohali, Hariyana
17.	Speech reading	Audiology	Staff, Technological Service Centre, Bangalore Karnataka
18.	Earmould Making	Audiology	Mr.Lakshmana, Self sponsored Mysore, Karnataka
19.	Electroacoustic Measurements of Hearing Aids	Audiology	Under Graduate Students, M.V.Shetty College Mangalore, Karnataka
20.	OAE	Audiology	-do-
21.	Voice Evaluation	Sp.Science	-do-
22.	Speech Production	Sp.Science	-do-
23.	BSERA	Audiology	B.Ed.students, Sri Padmavathi Mahila Vidyalaya, Tirupathi Andhra Pradesh
24.	Audiological Tests	Audiology	-do-

## **1. WORKSHOPS**

In-house Computer Training on basics of computers was provided for 4 staff and 5 students.

Science Day was observed on 28.2.98. Part of the programme was Jerger and Van Riper show which consisted of a Treasure Hunt and Quiz on the contributions of Jerger & Van Riper followed by presentation of scientific papers.

Workshop on Acoustic Terminology sponsored by the Institute was conducted on 27.9.98 and 28.9.98. The objective of the workshop was to collect terminology on Acoustics. Acoustic Terminology pertaining to Sound, Voice, Articulation, Prosody, Speech Perception, Psychophysics, Auditory Physiology, Otoacoustic emissions, Hearing Aids, Audiological Tests, Noise Measurements and Diagnostic Audiology were collected. 9 staff members and 23 students participated in the workshop and a booklet on Acoustic Terminology was prepared.

### **m. Students' Association :**

The Students' Association provides opportunities for literary and cultural pursuits. The Students' Association and NSS activities were inaugurated on 5.9.97 and the valedictory function was conducted on 20.3.98. The students were involved in various cultural and sports activities throughout the academic year.

Trekking camp and various NSS camps were held at Kuduremukha and Horanadu in and around Mysore. Several cultural and sports activities were held. "Sadbhavana Fortnight" was held from 20.8.1997 to 5.9.1997. The students also actively participated in all the activities commemorating the Golden Jubilee of Independence of India.

## CLINICAL SERVICES

The clinical services provided include Diagnostic, Therapeutic, and Counselling sessions to patients with speech and hearing defects.

**Hearing evaluation:** The following audiological tests were administered for differential diagnosis of hearing-impairment: pure tone audiometry, speech audiometry, immittance audiometry, auditory evoked response audiometry and otoacoustic emission.

A device for visual reinforcement audiometry was fabricated indigenously. Using this new instrument, it is possible to get detailed information regarding hearing sensitivity of children as young as six months of age and the difficult-to-test population.

As part of hearing conservation programme, audiological evaluation was carried out for industrial workers. Two hundred and five workers from local factories came for hearing evaluation. Guidelines for initiating hearing conservation programme were given.

**Hearing aid trial:** The patients were evaluated with body level (AC/BC), behind-the-ear, spectacle (AC/BC), in-the-ear, and FM types of hearing aids and appropriate hearing aids were prescribed. Demonstration of the use and care of the hearing aids, and counselling was done after completing the hearing aid trial process. Hearing aids procured for distribution under the ADIP scheme and ALDs were evaluated using electroacoustic measurements.



**Distribution of hearing aids under ADIP Scheme:** Hearing aids were distributed for the needy patients either free of cost or at 50% of the cost depending on the income. Hearing Aids issued under ADIP Scheme have been regularly serviced. Totally 1102 Body Level Hearing Aids and 71 Behind-the-Ear Hearing Aids have been serviced.

A total of 38 hearing aids and hearing aid spares such as 2 pin V cord, 2 pin single cord, volume control, microphone, battery contact, tone control switch, etc. have been tested.

**Earmold:** Custom earmolds were made for patients who were prescribed hearing aids. Whenever indicated, different types of earmold modifications were incorporated. Ear plugs were made for swimmers, using both indigenous and imported materials.

**Evaluation of Speech, Language and Voice Disorders :** The cases registered at the Institute were evaluated for various Speech and Language Disorders viz., language disorders, articulation disorders, voice disorders and rhythm disorders.

**Prostheses :** Twenty cleft palate prostheses and ten speech bulbs for the cases referred by the plastic surgeon and speech pathologists were prepared. Two hundred thirty nine sessions were required to complete the prostheses. Both temporary and long-term prostheses were prepared with monthly follow up. In addition, demonstration of various cleft palate prosthesis and speech bulb prosthesis is carried out for students and visitors.

**Therapy for Hearing, Speech, Language, Voice and Behaviour Disorders:** Speech/Language/Hearing-impairment therapeutic services have been offered to around 2544 cases during the year 1997-98, under both short-term guidance programme and long-term rehabilitation services. Overall good improvement was seen in a majority of the patients. Home



training handouts were provided on an individualized basis for the short-term cases. Around 26,788 sessions each lasting for 45 minutes/1 hour were held this year. In addition, group therapy services were provided for cases with hearing-impairment, mental retardation, cleft palate, learning disability and for different language groups.

**Pre-school programmes** for enhancing speech language/ hearing, social and academic skills for groups of hearing-impaired, mentally retarded children have been conducted. 50-60 children were enrolled this year. These children showed good improvement in their auditory and speech language skills along with improvements in their group behavior, discipline, adjustment to school set-up much needed for their successful integration in normal schools.

**A Clinic** for cleft-palate children and adults focussing on medical/surgical/prosthetic/speech-language management has been an on-going service since August 1995. This is run on a fortnightly schedule in co-ordination with a Plastic Surgeon/Speech-Language Pathologist and a Prostheticist.

Children/adults with various speech-language disorders such as cerebral palsy, mental retardation, aphasia, dysarthria were provided **physiotherapy** in addition to speech-language therapy to improve their sensory-motor coordination on a bi-monthly basis.

Computer programs installed are being made use of for record keeping, statistics and therapy purposes like the Multi Media, Dr.Speech, etc. Individual and group parents counselling is provided routinely for parents of children attending therapy. In addition home training programs are provided for demonstration/short term courses to facilitate intensive home training. Routine counselling is also given to the spouses/guardians of older patients.

**Itinerant Speech Therapist's activities** The itinerant speech therapist visited special schools and schools for normal children for identification of children with speech and hearing problems. Children identified were referred to appropriate agencies for further management. The teachers in these schools were also given guidance on identification and management of the speech and hearing-impaired in schools. The academic and social performance of children with speech and hearing handicaps integrated in these schools was also followed up.

**Psychodiagnostic Evaluation** : Behavior modification/behaviour therapy, psychotherapy and counselling was carried out for cases. Parent counselling was also carried out for management of behavioural problems and teaching self-help skills to children.

**Medical and Surgical Treatment** : Diagnostic and therapeutic procedures were done for the needy patients with speech and/or hearing problems. At present, only minimal therapeutic procedures like suction clearance of discharging ears can be done at the Institute. Other therapeutic procedures, both Medical and Surgical are being done at K.R. Hospital as there is no inpatient facility at the Institute. Microscopic procedure was done for 7,870 patients.

**Extension Services**: Clinical services have been extended to old age homes, maternity wards in local hospitals, villages and schools, both regular and special. Staff along with the students have been visiting various rural and urban areas for field visits to create awareness on speech and hearing problems. A street play on "Causes and Prevention of Hearing Loss" was enacted in slums and villages in and around Mysore City. The purpose

of play was to educate the general public about the ways to preserve their hearing. Public education pamphlets were distributed at the time of field visits. Patients with speech and hearing problems were identified, counselled and referred for further evaluation to the Institute. Hearing screening was conducted for 1050 children in local schools. Among them, 224 have been referred to the Institute for detailed evaluation and management. Infant hearing screening was carried out for 1570 infants at local Hospitals. Hearing screening was conducted for 145 people in various places. Among them 82 have been found to have hearing problems, and were referred to the Institute for detailed evaluation.

Under the project entitled *Prevention of Deafness and Hearing-Impairment*, the following activities were undertaken. Alongside the Pulse Polio Program, a screening program which included the administration of High Risk Check-list was conducted at twelve centres in Mysore City. 5530 cases were screened. Public Education Pamphlets were distributed and a few handbills were developed. Orientation lectures were held for ENT doctors, paediatricians, social workers, health workers, anganawadi workers and teachers of the deaf. Public education pamphlets were translated into Kannada, Tamil and Hindi.

**FACTS AND FIGURES : CLINICAL SERVICES RENDERED****No. of cases registered at the Institute**

		<b>Daily average</b>
<b>1. NEW CASES</b>	<b>11772</b>	<b>48</b>
<b>2. REPEAT CASE</b>	<b>15000</b>	<b>61</b>
<b>3. TOTAL NO.OF CASES</b>	<b>26772</b>	<b>109</b>
<b>4. NO.OF WORKING DAYS</b>		<b>245</b>

**AGEWISE STATISTICS**

<b>Age Group</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>
0-5	1175	866	2041
5-10	879	675	1654
10-20	1428	824	2252
20-40	1855	1216	3071
40-60	1060	659	1719
60-80	565	270	835
80+	119	81	220
<b>Total</b>	<b>7181</b>	<b>4591</b>	<b>11772</b>



## Statewise distribution of cases registered during the year

SL.NO.	STATE	NO.OF CASES SEEN
1.	KARNATAKA	8971
2.	KERALA	1657
3.	TAMIL NADU	730
4.	ANDRA PRADESH	333
5.	UNION TERRITORY	32
6.	ASSAM	1
7.	WEST BENGAL	2
8.	UTTAR PRADESH	10
9.	MAHARASHTRA	25
10.	ORISSA	2
11.	MADHYA PRADESH	7
12.	RAJASTHAN	2

**TOTAL      11772**

The no. of patients tested in the hearing evaluation section

No. of patients seen for hearing evaluation	<b>9242</b>
No. of ears with :	
- normal hearing                      ...	3193
- conductive hearing loss            ...	3593
- mixed hearing loss                      ...	3822
- sensorineural hearing loss            ...	5375
No. of certificates issued (Financial Aid)	368
No. of audiogram copies issued	1720

No. of patients evaluated for hearing aid trial**No. of patients evaluated for hearing aid trial**

No. of patients seen for HAT	4521
No. of patients counselled	1062
No. of hearing aids issued under ADIP scheme	1062
- Issued free-of-cost	1024
- Issued at 50% of cost	38
- No. of hearing aids issued on exchange	65
Free servicing of hearing aids of patients	1173
Certification of Hearing aids	885
 <b>No. of patients seen in earmold lab</b>	
No. of patients for whom ear impressions were taken	1538
No. of patients for whom earmolds were issued	3084
No. of earmolds completed	3135
free-of-cost	1485
on payment	1338
No. of shell earmolds made	322

Age-wise statistics of patients evaluated at  
hearing evaluation, hearing aid trial and earmold sections

Age-wise distribution

	Hearing Evln.		Hearing		Aid Trial		Earmolds	
	M	F	HAT		Couns.		M	F
			M	F	M	F		
0-5	795	565	392	297	154	130	297	228
5-10	671	453	306	175	90	69	159	107
10-15	393	305	157	123	49	40	67	49
15-20	415	314	98	83	22	20	56	36
20-25	479	244	97	40	21	5	38	17
25-30	475	227	58	33	18	10	27	15
30-35	324	195	51	40	18	9	18	11
35-40	267	195	44	25	14	5	13	12
40-45	298	184	63	40	19	10	33	18
45-50	264	146	73	50	21	16	30	14
50-55	224	145	84	58	27	12	25	23
55-60	271	157	85	63	30	17	42	25
60-65	228	138	149	86	51	16	36	20
65-70	237	96	134	46	47	26	29	22
70-75	176	67	156	64	54	16	28	9
75-80	125	40	104	38	49	8	18	2
80-85	59	20	95	18	30	2	13	1
85-90	38	4	24	7	6	2		
90-95			7		1			
95-100			4		1			
Total	5739	3495	2181	1286	722	413	929	609

**Distribution of cases with speech and language disorders**

<b>I. Language Disorders</b>	<b>Case History</b>	<b>Evaluation</b>	<b>Counselling</b>
1. Delayed speech & language (DSL)	260	274	209
2. DSL with MR	460	574	340
3. DSL with CP	119	151	84
4. DSL with Autism	12	21	12
5. Aphasia	44	45	30
6. Speech Regression	13	16	8
7. Learning Disability	28	35	20
<b>II. DSL with hearing loss</b>	1015	1049	355
<b>III. Hearing Loss</b>	3136		
<b>IV. Rhythm Disorders</b>			
1. Stuttering	693	749	288
2. Cluttering	1	1	1
3. Normal nonfluency	59	63	31
<b>V. Articulatory Disorders</b>			
1. Misarticulation	213	223	93
2. Cleft Palate	108	111	48
3. Dysarthria	61	63	4
<b>VI. Voice Disorders</b>			
1. Dysphonia	722	734	140
2. Laryngectomy	5	5	3
<b>Total</b>	<b>6999</b>	<b>4114</b>	<b>1666</b>



**Speech and Language Disorders**  
**Age-wise distribution**

<b>Age in years</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>
0-1	61	36	97
1-5	726	500	1226
5-10	480	281	761
10-15	271	124	395
15-20	141	53	194
20-25	117	39	156
25-30	77	21	98
30-35	44	5	49
35-40	27	10	37
40-45	30	14	44
45-50	35	10	45
50-55	18	9	27
55-60	13	3	16
60-65	20	2	22
65-75	21	3	24
75-85	3	-	3
85-95	1	2	3

**Therapy Clinic**

No. of cases given therapy

Sl.No.	Type of the disorders	No. of cases
1.	Delayed Speech and Language with Hearing Loss	886
2.	Delayed Speech and Language with MR	358
3.	Delayed Speech and Language with Cerebral Palsy	173
4.	Delayed Speech and Language	155
5.	Aphasia	72
6.	Apraxia	9
7.	Autism	64
8.	Learning Disability	107
9.	Misarticulation	132
10.	Dysarthria	14
11.	Stuttering	332
13.	Voice Disorders	156
14.	Cleft Palate	41
15.	Laryngectomy	8
16.	Multiple Disorders	48
	<b>Total</b>	<b>2555</b>

Total No. of Group Therapy Sessions 1119

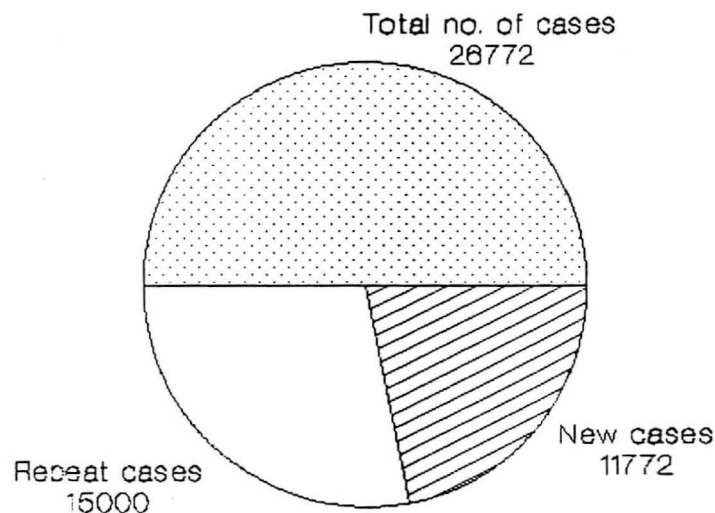
**Psychodiagnostic evaluation/Therapy**

<u>Diagnostics</u>	No. of new cases seen	2790
	No. of cases re evaluated	520
<u>Therapeutics</u>	No. of cases who attended therapy	17
	No. of therapy sessions	931
	No. of certificates issued	440

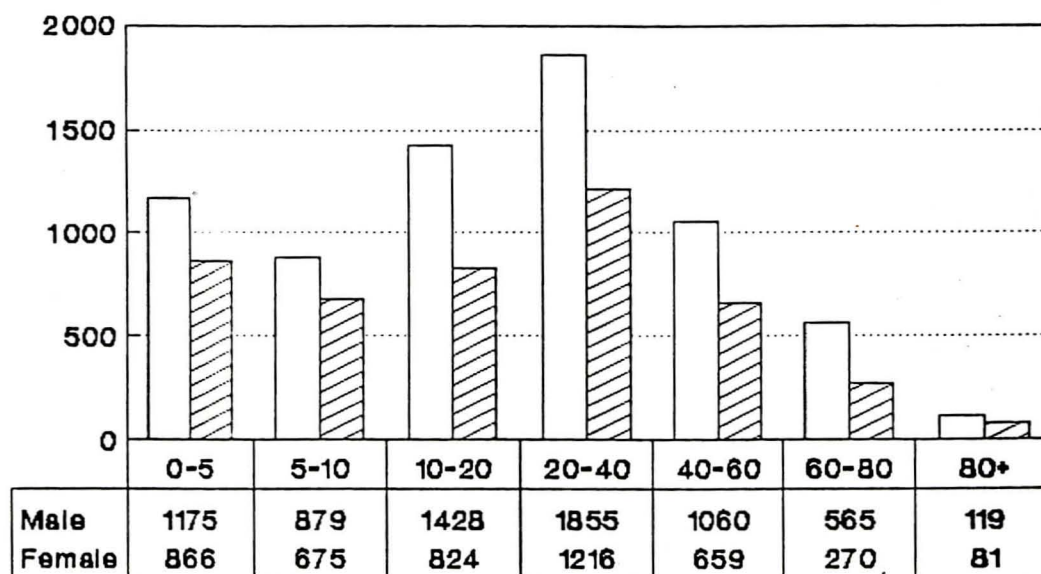
Medical/Surgical Treatment	Old	New	Total
Cases seen at AIISH	7963	8048	16011
Cases seen at KRH	5427	6956	12383
<b>Surgical Procedure Performed:</b>	<b>Major</b>	<b>Minor</b>	<b>Total</b>
	177	340	517

Microscopic Procedure done at AIISH 7870

# Case Registered at AIISH

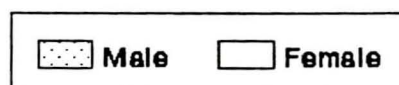
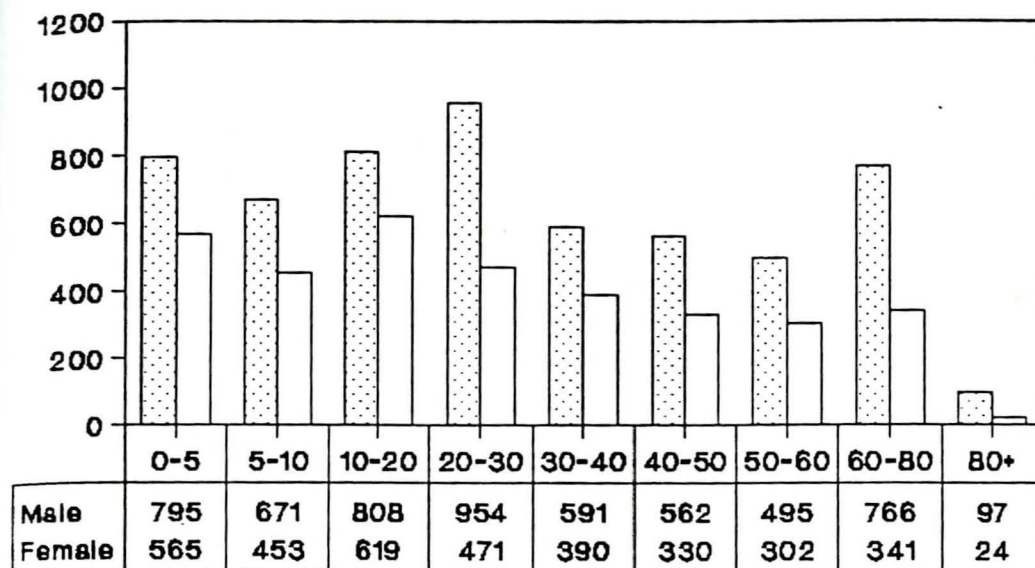


## Medical Records Age-wise Statistics



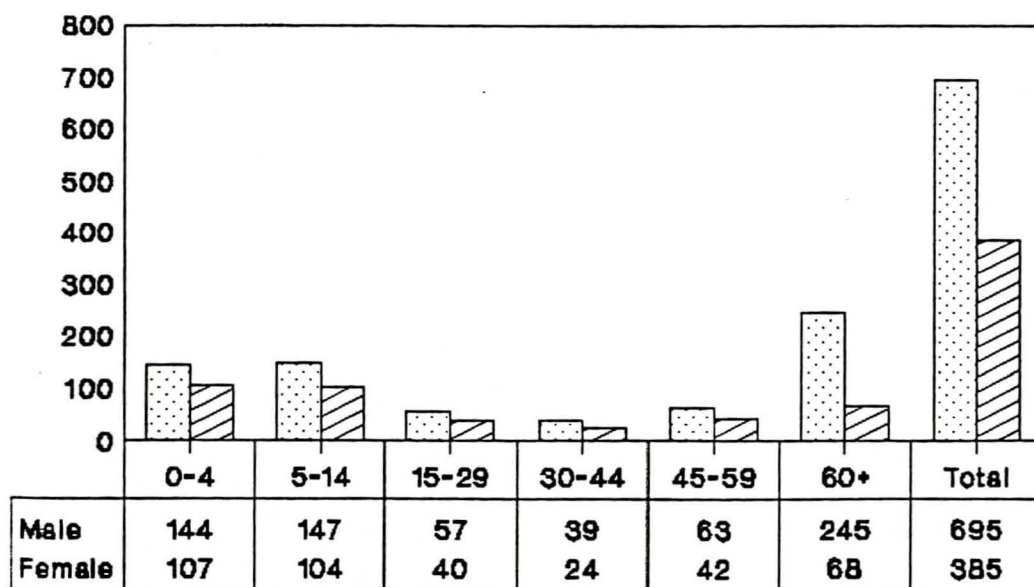
# HEARING EVALUATION

## Age-wise statistics



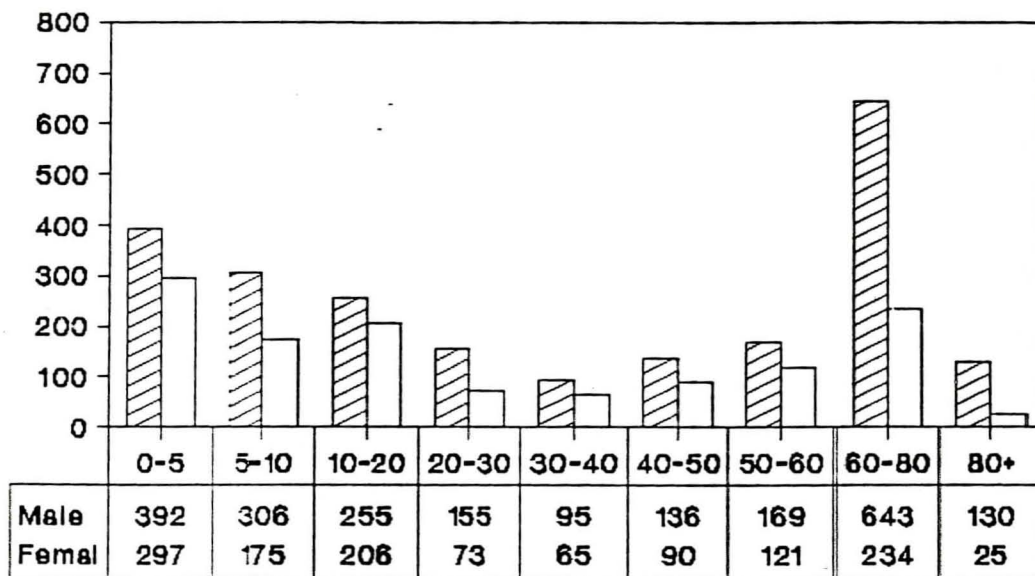
## Hearing Aids Issued Under ADIP Scheme

### Age-wise Statistics



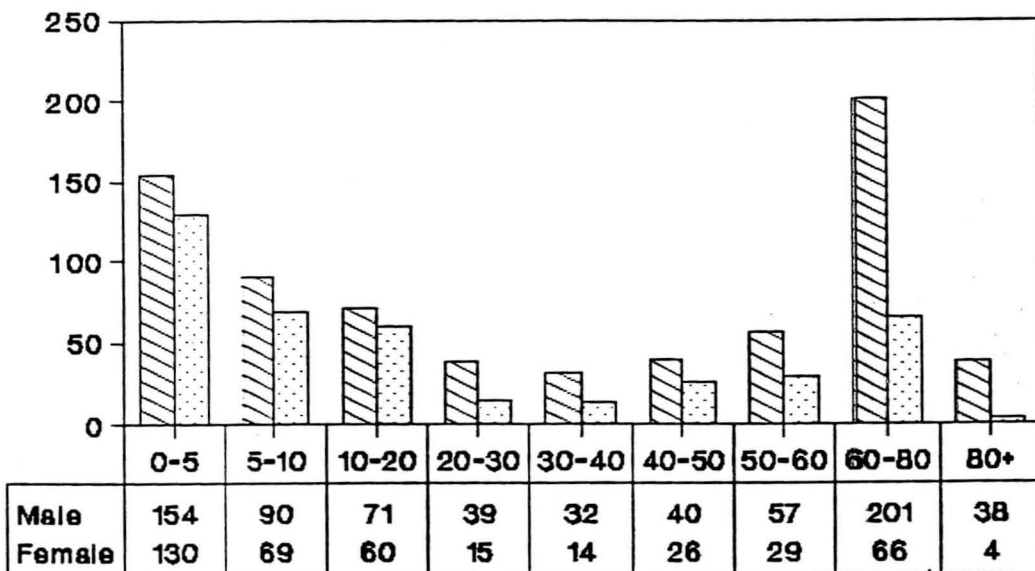


## Hearing Aid Trial Age-wise Statistics



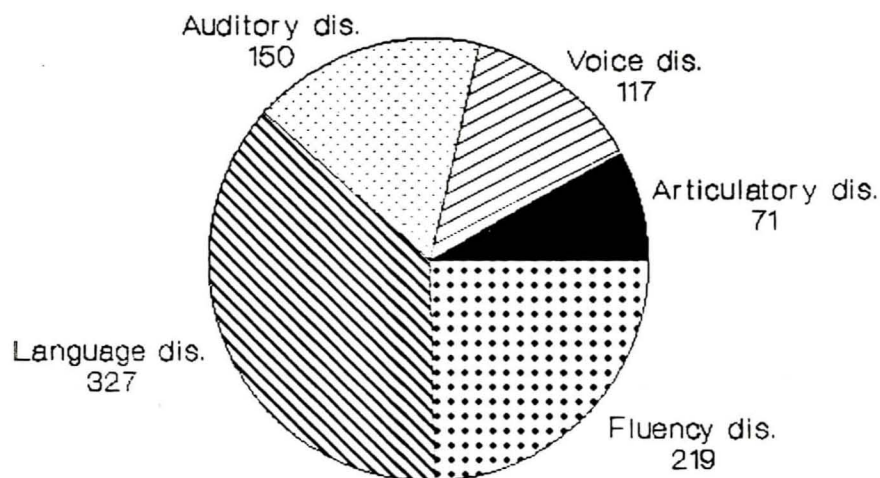
Male
 Femal

## Hearing Aid Demonstration Age-wise Statistics



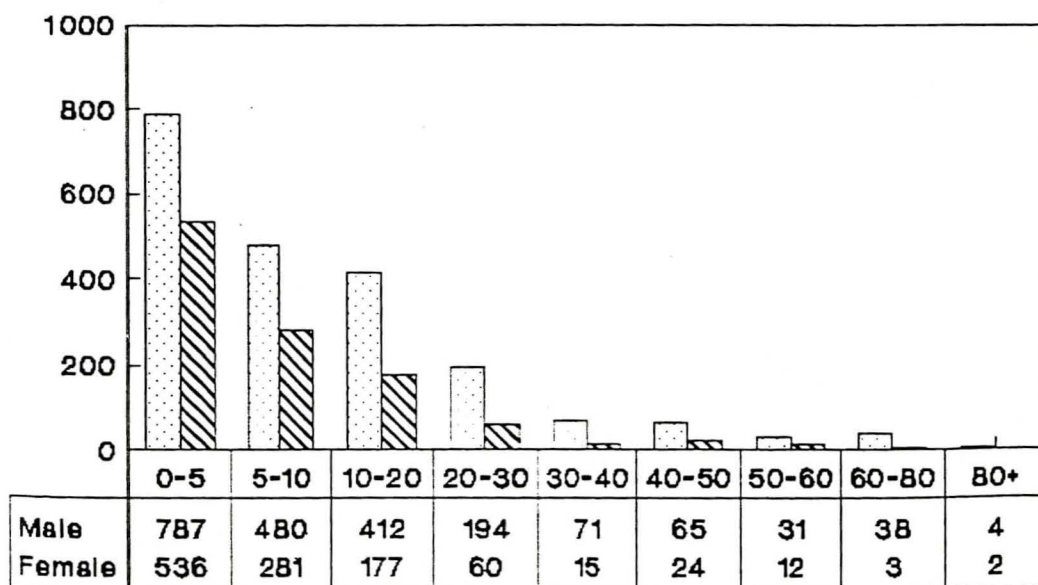
# Therapy statistics

## Disorder-wise distribution of cases



## Cases with Speech & Language Disorders

### Age-wise Statistics



## RESEARCH ACTIVITY

## I Ph.D Program

**Awarded:**

Mr. Venkatesh C.S

Ms. Geetha Y.V.

**Awaiting Results:**

Ms. Basanti Devi

Ms. Manjula R (Since awarded)

Ms. Prema K.S.

Mr. Antony Thomas

Mr. Jayarama G. (Since awarded).

**In Progress:**

Mr. Raju H.H.

Ms. Sridevi N.

Ms. Vanaja C.S.

Ms. Pushpavathi M.

Ms. Swapna N

## II Research Projects

The following projects were undertaken in the Institute:**1. Projects completed:**

a) Fabrication of Visual Reinforcement audiometry

b) AIISH Communicator

c) Type "A" Behaviour Pattern among Stutterers

## 2. Projects under progress:

- a) Fabrication of Mobile Van
- b) Project on Prevention of Deafness submitted to WHO (instrument procurement )
- c) Prevention of Deafness and Hearing-Impairment (Ministry of Health & Family Welfare)
- d) Fabrication of Acoustic Booth for Audiological Testing
- e) Solar Cell Charger
- f) 'N' Indicator
- g) Cord Tester
- h) Comparison of Homeopathic and Ayurvedic Vs. Allopathic treatment in CSOM, SOM, Pre-Operative and Post-Operative cases and evaluation in Voice Disorders
- i) Chemical Cautrization for Small Central Perforation (Silver Nitrate)
- j) Long-Term follow up of CSOM Cases
- k) Comparison of Different Mortalities of Treatment in Tinnitus
- l) Transformation of the Speech of Hearing Impaired Children funded by Department of Science and Technology
- m) Acoustic Analysis of Speech
- n) Developing Software for Diagnosis and Analysis of Speech
- o) Glottal Behaviour in Normals and Speech Handicapped
- p) Developmental Milestones of Language Acquisition in Indian Languages: Kannada and Hindi by ICSSR, New Delhi



### III Scientific Papers Presented\Published

Animesh B.

Effect of contralateral efferent stimulation on TEOAES, presented at ISHA Conference, Puri (Co-authored).

Efficiency of 1000Hz Vs 226Hz Probe Tone frequency in determining acoustic reflex threshold (ART) in normals and in conductive pathologies, presented at Acoustic Society of America, Goa (Co-authored).

Effect of transducers on speech discrimination, presented at ISHA Conference, Puri (Co-authored).

Influence of Electrode position on recording of the auditory brainstem responses in children, presented at ISHA Conference, Puri (Co-authored).

Kalaiah P

A Package of Treatment for Stutterers. Indian Journal of Clinical Psychology, 1997, Vol.24, Number 2, 144.

Nataraja N.P.,  
Savithri S.R.,  
Sreedevi N &  
Sangeetha

Acoustic Analysis of the Speech of the Hearing Impaired  
Proceedings of the International Conference on Computational Linguistics, Speech and Document Processing. B 46-53.

Nataraja N.P.,  
Sreedevi N &  
Sangeetha

Electroglottography in the Diagnosis of Voice Disorders.  
Proceedings of the International Conference on Computational Linguistics, Speech and Document Processing. B 54-57.

Rajalakshmi K

Effects of efferent induced changes in cochlear micromechanics on TEOAE presented at Acoustic Society of America, Goa.

Savithri S.R.

Development of Speech Perception in Children. Proceedings of the International Conference on Computational Linguistics, Speech and Document Processing, B 70-81.

F2 transitions in the Speech of normal children and children who stutter. Presented at the ISHA Conference, Puri (Co-authored).

Vanaja C.S.

Efferent Induced changes on distortion product otoacoustic emission, presented at ISHA Conference, Puri (Co-authored).

#### IV Papers sent for publication:

Nataraja N.P.

Profession of Speech and Hearing in India - an over view Asia Pacific Journal of Speech Language and Hearing.

Acoustic Analysis of Alaryngeal voice - Asia Pacific Journal of Speech Language and Hearing.

Savithri S.R.

Stuttering - Ayurvedic system of treatment for stuttering - A review of Sanskrit literature, Journal of Communication Disorders.

Stuttering - to be a chapter in the book Yoga to Yoga.

A comparative study of speech motor programming in stutterers and non-stutterers - to be presented in the Annual Conference of the Acoustical Society of America (Co-authored).

## EQUIPMENT PROCURED DURING THE YEAR

Instrument	Cost in Rs.
<u>Department of Audiology</u>	
FM System	97439.00
GSI 33 Immittancemetre	269561.12
Sony Taperecorder	5600.00
Portable AEPsystem	938437.00
Portable Immittancemeter	185535.00
Danovax Hearing Aids-2nos	32600.00
Audioscope- 2 nos	42000.00
Software for compressed speech with A to D Converter	157000.00*

Equipment procured through funds from Prevention of Deafness and Hearing-Impairment

Trans Lite  
 Stationary Illumenation System  
 Cube Lite  
 Revolving 4-side Display System

Department of Speech Science

Neural network	80000.00
Dr Speech	173250.00
Digital disk recorder	83000.00
Portable tape recorders	11200.00
Pentium Computers	130000.00

\*' order placed

Instrument	Cost in Rs.
Laser printer	46950.00
DSP based processor with SIU & MIC	137200.00
Pentium Computers	42600.00
Laryngograph	65000.00*

Equipment procured through Project on TOSHI

SSL Software Package with Accessories	110700.00
Pentium Intel 133 Hz - 1 No.	114826.00
Sony Tape Recorder with Mic & Headphone	30075.00
HP Deskjet 870 CXT Printer - 1 No.	23700.00

Department of Speech Pathology

N Indicator	30000.00 being fabricated
Denrick 2	15000.00*

Therapy Clinic

Dr Speech SW	150000.00
Fonator Speech Trainer	87804.00
Visible Sp. Unit DV 7	139101.00*
Voice Synthesis SW of DR Speech	20000.00*
DM Printer 24 pin 132 Col.	14550.00*

\* Order placed



Instrument	Cost in Rs.
<u>Department of Clinical Psychology</u>	
Color Monitor	15500.00
Weschler's Intellegence Scale for Children	50000.00*
Weschler's Intelligence scale for adults	
<u>Department of Electronics</u>	
Ethernet Board #	5000.00
Multimedia Kit #	15000.00
High Resolution# Colour Scanner	45000.00
Denon Desoldering Tool & Acce. & Computers Denon Soldering Iron with Acce.	90520.00
Anolog multimeter Galvanometer, Tong tester	12000.00*
8 MB EDO RAM	12000.00*
<u>Computer Centre</u>	
Upgrad.of existing Computer B Bee which includes A/c DMP	240000.00
Cabling/HW	70000.00*
<u>Department of E.N.T.</u>	
Laser Unit (US\$ 41986+CIF 292 =US \$ 42278+SIC )	1733422.60 *
<u>General Administration</u>	
Electronic Frank.Machine for R&I	92000.00
Pentium Computers for Library - 2 Nos.	130000.00
Cds 2nos for Library	12000.00 *

\*\* order placed

# Included in Up-gradation of Computers

Equipment procured through funds from WHO

Ultrasonic Cleaner - 1 No.

Wittmoser Articulated Optical Arm with HOPKINS System

HOPKINS Lateral Telescope

Fiber Optic Light Cable

Drill Engine

CSL (Software module) Pseudopalates - 3 Nos.

Equipment was serviced under major and minor repair works. Regular service maintenance and calibration of equipment were carried out. New bio-medical equipment procured were installed.

Handouts

1. Otoacoustic emission
2. Electroacoustic measurements
3. Home Training programme for different disorders in different languages
4. Models on brain, larynx, speech mechanism
5. Teaching aids for enhancing speech, language including reading and cognitive skills

Revised Question Bank :

1. BSERA
2. Anatomy and Physiology of the ear
3. Hearing Aid
4. Immittance Audiometry
5. Noise and Hearing conservation
6. Instrumentation
7. Tests used for cochlear and retrocochlear pathology
8. Otoacoustic emission
9. Cochlear Implants

Revised Guidelines :

1. Set an Earmold Lab
2. Set an Speech and Hearing Centre
3. Set an Classroom for the Deaf
4. Purchase and Installation of ERA
5. Purchase and Installation of Immittance Audiometry

## NEW RESOURCE MATERIAL

The following resource materials were prepared during the year:

Audio Cassette - Speech Stimulation Techniques in Different Languages

Video Cassette -- Rehabilitation using Artificial Larynx and Oesophageal Voice

Public Education Pamphlets/Handouts

Prepared

1. Speechreading
2. Communication Strategies for the Hearing-Impaired

Revised:

1. Hard of Hearing Child in the Classroom (in English)
2. Guidelines for Prevention of Hearing Loss (in Kannada)
3. Trouble Shooting of a Hearing Aid (in Kannada)
4. For the Hearing Aid Users (in Kannada)

## STAFF ACTIVITIES:

Animesh Barman

Examiner: Manipal Academy of Higher Education.

-Participated in workshop on Acoustic Terminology on 29th & 30th September 1997 at AIISH.

-Carried out NSS activities.

Anitha Baldevraj

Participated in Rajya Bhasha Mela on 26.2.98 at CIIL, Mysore.

Asha Yathiraj

Examiner: Mysore, Bangalore, Mangalore, Osmania and PGI deemed University, Chandigarh, Rajeev Gandhi University of Health Science

-Presented paper for AIR staff on "Role of Hearing on Context of Speech"

-Presented paper to teachers of the deaf on Methods used to train the hearing impaired

-Attended BIS Meeting - LTD 5/P2, LTD 5/P3, Panel for Sound Systems at AIISH on 5th and 6th Jan 1998

-Participated in workshop on Acoustic Terminology on 29th & 30th September 1997 at AIISH

-Appointed as Inspector by the Rehabilitation Council of India to inspect the B.Sc. (Speech, Hearing and Language) Degree course conducted by Sri Ramachandra Medical College and Research Institute, Madras



- Balakrishna Acharya      Served as Deputy Examination Superintendent to conduct Joint-Entrance Examination for DPT/BOT/DPOE/BMR courses held at AIISH under Rehabilitation Council of India in May 1997
- Basanti Devi      Examiner: Mysore, Bangalore, Mangalore and Osmania University  
 -Co-investigator for the project on developmental milestone of language acquisition funded by ICSSR New-Delhi  
 -Attended a National Seminar on 'Common Features of Eastern Aryan Languages' held at Bhuvaneshwar from 3.12.97 to 5.12.97 and presented paper entitled 'A Study of Conditional clauses in Assamese, Bengali and Kannada
- Balasubramanya B.N.      Involved in development of visual Reinforcement Unit which has been successfully completed  
 -Involved in loading of application software developed by M/s ITI, Bangalore  
 -Attended the Oracle 7.X Data Based Administration Training in the Institute Campus during October 1997
- Chudamani BR      Co-ordinated with the Agencies in the development of Visual Reinforcement Unit which has been successfully completed  
 -Co-ordinated with the staff of ITI, Bangalore in loading application software

-Obtained training on Oracle 7.X and RDBMS Developer 2000 from CYBLAZE, Mysore.

Geetha YV

Resource person for refresher course on "Assessment and Management of Fluency Disorders" on 14.6.97 at AIISH.  
 -Orientation Lecture for M.S.W. on 18.11.97 at AIISH.  
 -Attended Seminar on Head Injury at Bangalore on 6th & 7th February 1998.

Kalaiah P.

Examiner : Mysore, Mangalore, Bangalore, Rajeev Gandhi University of Health Science, Bangalore.  
 -Attended the RCI meeting to discuss about the syllabus for the course in "Rehabilitation Psychology" at Hyderabad in May 1997.

Kalyan Kumar

Participated in the Special Summer Camp at AIISH as a resource person to conduct Yoga classes for the cases who were attending therapy during April & May 1997.

Manjula P

Attended Indian Standards meeting at Bangalore on 6.1.97.  
 -Attended BIS meeting-LTD 5/P2, LTD 5/P3, LTD 5 - Panel on Hearing Aids and Audiometers at AIISH on 5th & 6th Jan 1997.  
 -As part of the World Environmental Day celebrations at JCE, Mysore, attended a talk on "Noise Pollution"

Manjula R

Examiner: Bangalore, Mangalore, Manipal Academy of Higher Education, Manipal, Mysore University & Rajeev Gandhi University of Health Science.

-Co-investigator of the project titled "Language Training Materials in Major Indian Languages".

-Participated in Workshop on Acoustic Terminology on 29th and 30th September 1997 at AIISH.

-Conducted refresher course on "Management of Communication Disorders in CP" at AIISH.

-Warden, AIISH Ladies Hostel, since August 1993.

Nataraja NP

Member: Executive Council, AIISH  
Examiner for Doctoral Thesis and Pre-Ph.D examination.

Examiner: Mysore, Bangalore, Mangalore, Osmania Universities, NIMHANS, PGIMER, Chandigarh AIIMS, New Delhi and Rajeev Gandhi University of Health Science

Member for Selection Committee: AIISH, Mysore & NIMHANS, Bangalore

Member: Screening Committee and Departmental Promotion Committee, AIISH

Member for Board of Studies: AIISH, Bharathidasan University, TN, Osmania University, Hyderabad, Editorial Board, International Asia Pacific Journal

Chairman: Editorial Committee Journal of ISHA

-Attended TAG Meeting at New Delhi on  
10.6.97

-Chief Investigator, TOSHI Project

-Attended Meeting at WHO office on  
29.10.97 on plan of action for the benium  
1998-99, 2000-2001

-Chief Superintendent for examinations  
(AIISH) December 1997

Nikam S

Chairperson: BOE & BOS (Sp.& Hg),  
University of Mysore.

-Sub-Committee of Rehabilitation Council  
of India.

Member: Rate Contract Committee,  
Ministry of Welfare, Govt. of India.

Member Secretary: Executive Council,  
Finance Sub-Committee, Academic Sub-  
Committee, AIISH, Mysore.

Convenor: Panel of Hearing Aids and  
Audiometers of Bureau of Indian  
Standards.

Training: Selection Committee Meeting  
B.Sc. & M.Sc. (Sp.& Hg), AIISH.

Workshop/Meetings attended:

- Cadre Review Meeting and Selection  
Committee Meeting.

- Acoustics Sectional Committee LTD S P2  
Meeting at Bangalore on 6.8.97.

- Selection Committee Meeting, JSS  
Polytechnic College for the Handicapped.

- BIS Meeting - LTD 5/P2, LTD5/P3, - Panel  
on hearing aids and audiometers and sound  
systems at AIISH on 5th & 6th Jan 1997.

- RCI Meeting at AYJNIHH, Mumbai and  
New Delhi



-Meeting regarding WHO funding and preparation of detailed Plan of Action for the bienium 1998-99 on 27.2.98 at Nirman Bhavan, New Delhi.

Prema K.S.

Participated in Workshop for Parents of M.R. & C.P. Children on 28.9.97

-Delivered Guest Lecture on Sppeech development and problem faced by deaf children, early identification and training effect in hearing impaired at Deaf School, Mysore on 21.10.97

-Attended Seminar on Special Children at Munnar, Kerala and presented a paper on 26th and 27th October 1997

-Attended National Seminar-cum-Workshop on L.D. at RIE, Mysore on 2nd and 3rd February 1998

Pushpavathi M

Attended Workshop on Acoustic Terminology on 29th and 30th September 1997 at AIISH

-Member for Selection Committee, AIISH, Mysore

-Participated in Rajya Bhasha Mela on 26.2.98 at CIIL, Mysore.

-Assisting in Training Section

Rajalakshmi K

Examiner: Bangalore, Mangalore, Mysore Calicut University and Rajeev Gandhi University of Health Sciences

-Chaired a session at the third technical session, co-chaired the technical sessions on physiological acoustics of the Acoustical Society of America held at Goa on 5.9.97.

-Attended the Auditory Verbal Workshop held at Kuala Lumpur from 24th to 26th October 1997.

-Attended Workshop on Acoustic Terminology on 29th and 30th September 1997 at AIISH.

-TASK FORCE Member on Christofed Blinder Mission, South-Asia Regional Office and attended meeting, Bangalore on 25.9.97.

Ramadevi K.J.

Participated in Short-Term Refreshers Course on OAE ON 11.6.97 at AIISH.

-Attended 'Acoustic Terminology' Workshop on 29th and 30th September 1997 at AIISH.

Rohini H

Participated in Refresher Course on 'EAC Measurements' on 12.6.1997 at AIISH.

-Attended National Seminar on "Special Children' in the 21st Century Millenium Plan". Presented a paper on "Early Identification of Hearing Impairment" conducted by DARE, Centre for Special Education Tata Tea Ltd., Munnar, Kerala on 26th and 27th October 1997.

Sathish HS

Examiner: Mysore, Bangalore and Mangalore Universities

Involved in the fabrication of Mobile Van at NAL, Bangalore

-Attended course on Networking and Internet at SJCE, Mysore for one month

-Involved in development of software programmes for Hospital Administration, General Administration of the Institute

-Continued to serve as technical consultant to Institute of Speech & Hearing, Bangalore

-Awarded Fellowship for WHO to attend program on Bio-Medical Engineering and Maintenance of Hospital Equipment in Norway, Finland and Denmark for 3 months

-Attended Data Based Administration Training in the Institute Campus during October 1997.

Savithri S.R.

Member: Board of Examiner, Mysore University, Board of Studies, Bharathidasan University, TN, Selection Committee (Adm. to B.Sc., Sp. & Hrg).

Examiner: University of Mysore, Bangalore, Mangalore, Mumbai and Rajeev Gandhi University of Health Science

-Examiner, Ph.D Viva, Ph.D qualifying examination

-working as Training Co-Ordinator

Chairperson: Journal Committee and

-Attended CRE on Speech Technology from 4.4.97 to 6.4.97 at IIT, Madras.

-Co-investigator for project TOSHI.

Seetharam MK

Working on Solar Cell Charger for Behind the Ear and in the Ear Hearing Aids

-Working on a project titled "Low Cost Cord Tester" and it is nearing completion

-Imparted training to three persons of different institutions in hearing aid repairs

Shyamala K.C

Examiner for pre Ph.D. examination of a Doctoral thesis student of Padmavathi Mahila Vishwa Vidyalaya - Tirupathi in April 1997.

Examiner: MAHE, Manipal, Bangalore, Mysore and Mangalore Universities.

-Nominated as Chairperson, BOS, Mangalore.

Radio talk: on "Speech Therapy" on 23.4.97  
- on "Suggestions to Stuttering Patients" on 8.6.97.

-on "meet the specialist category on "Speech Problems" on 11.1.98.

Seminar/Workshop attended:

-On Multifaceted Rehabilitation of Head Injured at ISH, Bangalore on 6th and 8th February 1998

- On Developing Linkages between RCI and International Agencies to work out strategies for meeting the challenges in Rehabilitation of Disabled Person at Indian International Centre, New Delhi on 8th and 9th December 97



10.10

- Attended Workshop on Acoustic Terminology from 29.9.97 to 30.9.97 at AIISH.
- Attended a Conference on Cognitive and Language Disorders in Children on 17th and 18th January 1998 at Sri Chitra Tirunal Institute of Medical Services, Trivandrum and gave an invited talk on "Speech & Hearing Problems in Learning Disabled"
- Presented a paper on 'Speech & Language Problems in Learning Disability' on 2nd and 3rd February 1998 at RIE, Mysore
- Delivered Guest Lecture:
  - 1) Speech & Language problems in special children.
  - 2) Communication problems in CP and Learning Disabled at RIE Masters Training Program arranged by DSERT, Bangalore on 23 and 24th October 1997
- Submitted a paper "Agrammatic Aphasia" to Osmania University, Hyderabad
- Conducted BOS meeting as Chairperson of Mangalore University for Speech & Hearing on 13.2.1998
- Conducted two refresher courses at AIISH.
- Principal Investigator for Project "Developmental Milestone of Language Acquisition"

- Sridevi N  
Delivered Lecture on "Anatomy and Physiological Aspects of Voice" for AIR workshop on 24.6.97 at AIISH  
-Provided hands on experience to AIR staff on Voice Evaluation ON 25.6.97 at AIISH
- Srinivasa S.R.  
Involved in fabrication of Sound Proof Audiometric Rooms
- Sujatha V Shastri  
Orientation to teachers of deaf school from Goa regarding Speech & Language Assessment Techniques during May 1997  
-Orientation on Speech & Languages Assessment Techniques for post graduate students from Mysore University on 23.10.97
- Suchithra M.G.  
Analysed ICSSR Project - Samples in Kannada of Group I (0-6 months) and Group II (6-12 months)  
-Compiled review of Departmental activities over 30 years
- Suseela M. V.  
Delivered Guest Lecture on "Noise-an environmental Pollutant" at J.S.S. Hospital on 30.8.97.

-Attended XIX State Conference of Association of Otolaryngologists of India, held at Belgaum from 17.10.97 to 19.10.97, and presented a paper on "How I could mould myself to clean mastoid surgery"

-On 8.3.97 gave a Radio Talk in Kannada about the ENT problems in AIR

Sundararaju H

Participated in the 50th Annual Conference of Association of Otolaryngologists of India, held at Delhi from 8.1.98 to 11.1.98

Swapna

Oriented the staff of Icchapur Deaf School regarding the clinical activities during April 1997

-Performing Asst. Warden duties from 5.5.97

-Participated in Rajya Bhasha Mela on 26.2.98 at CIIL, Mysore.

Vanaja C.S.

Attended BIS meeting at Bangalore on 6.8.97.

-Aids and audiometers, LTD 5 P3, Panel for Sound Systems, LTD 5 Acoustical Sectional Committee at AIISH on 5th & 6th Jan 1998.

Vijayashree

Wrote objectives for the printing of public education pamphlets  
-Prepared questionnaire on "Awareness on Speech Disorders" for visitors  
-Participated in meetings on "Amendment to Recruitment Rules" and helped in framing the recruitment rules for Group B and C as per UPSC frame work at AIISH.

Yashoda K.

Delivered orientation lecture regarding speech and hearing problem to Anganawadi workers and workers at grass root level at Holdsworth Memorial (Mission) Hospital, Mysore



## LIBRARY & INFORMATION CENTRE

The Library and Information Centre is the nucleus for the information retrieval in the speciality of Speech & Hearing field. The objective of the Centre is to provide literature and other materials on the speciality of our curriculum to the staff researchers, students and also to specialists working in this field.

The entire collections are organised in a systematic order and made available to the users easily. The following services are provided.

1. Providing latest books and periodicals.
2. Bibliographic Service
3. Current Awareness Service
4. Inter-Library Loan Service
5. Reference Service
6. Reprographic Service
7. Providing Audio-Visual Materials
8. Providing Literature Search Facility on Topics of interest to its users

Library has been provided Computers and Printers. It is being used to increase the Library Services. We have already computerised the cataloguing of books. Bibliography of Journal articles is under progress.

We have enrolled our Library as a Member of Mysore City Libraries Consortium and Mylibnet.

### Statistics:

1. No.of Volumes as on date	11558
2. No.of Volumes added (From 1.4.97 to 31.3.98)	238
3. No.of Journals Subscribed to	45
4. No.of Books/Journals Issued and Consulted (From 1.4.97 to 31.3.98)	76383
5. No. of External members who have done reference work	51

12.1  
ACCOUNTS

**SUMMARY OF PROVISIONS PROPOSED**  
**REVISED ESTIMATES 1997-98 AND BUDGET ESTIMATES 1998-99 PLAN**  
(Rs. in lakhs)

Sl.No.	Standard Object of Expenditure	RE 1997-98	BE 1998-99
<b>1.</b>	<b>Salaries</b>		
	i) <u>Sanctioned Posts</u>		
	a) Filled Posts	-	-
	b) Vacant Posts	-	-
	c) V CPC commitment	-	-
	d) Ad-hoc Bonus	-	-
	ii) Fresh Posts	21.25	44.30
<b>2.</b>	Allowances other than travel	1.00	1.55
<b>3.</b>	Fellowship	-	
<b>4.</b>	Other charges	-	16.44
<b>5.</b>	Contributions of Funds	-	4.00
<b>6.</b>	Travel Expenses		
	Within India	-	2.00
	Outside India	-	2.50
<b>7.</b>	Furniture	20.00	3.29
<b>8.</b>	Fixture	-	-
<b>9.</b>	Equipment	90.00	109.91
<b>10.</b>	Summer Camp for Speech & Hearing	0.75	-
<b>11.</b>	Spares/Accessories & Consumables	10.00	-
<b>12.</b>	Payments to Professional services	1.00	4.78
<b>13.</b>	Library Books & Journals	19.00	19.00
<b>14.</b>	Capital works	125.00	170.00
	Gross Total	288.00	377.77
	Less : Receipts	-	-
	<b>Net Demand</b>	<b>288.00</b>	<b>377.77</b>
	<b>Grants Received</b>	<b>1995-96</b>	<b>1996-97</b>

## SUMMARY OF PROVISIONS PROPOSED

REVISED ESTIMATES 1997-98 AND BUDGET ESTIMATES 1998-99 NON-PLAN  
(Rs. in Lakhs)

Sl.No.	Standard Object of Expenditure	RE 1997-98	BE 1998-99
1.	<b>Salaries</b>		
	i) <i>Sanctioned Posts</i>		
	a) Filled Posts	100.68	117.96
	b) Vacant Posts	12.26	15.45
	c) V CPC Commitment	14.00	—
	d) Ad-hoc Bonus	4.00	4.00
2.	Allowances other than travel	2.85	3.40
3.	Payments to Professional Services	1.68	2.35
4.	Other charges	40.68	45.55
5.	Contributions to Funds	6.60	6.60
6.	Travel Expenses	6.38	6.00
7.	Furniture	8.00	8.00
8.	Fixtures	5.00	5.00
9.	Equipment	23.65	28.00
10.	Printing of Brochure	6.00	6.00
11.	Advances to Staff	64.85	74.85
12.	Wages	2.93	4.00
13.	Minor works	8.00	8.00
14.	Merit Scholarship	4.78	10.23
	Gross Total	312.34	345.39
	Receipts Anticipated	10.67	9.25
	Net Demand	301.67	336.14
	Grants received	1005.00	1005.00

## **OFFICIAL LANGUAGE IMPLEMENTATION**

The use of Hindi in Official works was continued with all interest during the year 1997.98. Various activities were spread over the whole year kept the staff members in touch with the use of official language. Added to this was the inclusion of Hindi programs in the celebrations of the 50th Year of Independance.

### **Meetings**

The OLIC Meetings were held once every quarter and the proceedings were sent to the concerned. Action as suggested were taken.

Promoters meeting of OLI were held once in every month and discussed about the progress of the official language.

The Institute took part in the TOLIC Meetings arranged by CIIL, Mysore.

### **Training in Hindi/Hindi Typing and Incentive Schemes**

Training in Hindi Typing and award and incentive schemes on successful completion/ implementation of official language were continued.

### **OL Correspondance**

The provisions of the clause 3(3) of OL Act 1963 were compiled to the best possible extent. In addition to the general circulars, general Office Memos forms etc., being rendered in bilingual. Call slips, Proformae, Hand outs, Greeting cards, Annual Report, Half Yearly Report, Statement of Accounts, Performance Budget, Slogans, etc. were prepared in both Hindi and English.



### **Hindi Competitions**

Various Hindi Competitions on the occasion of Hindi Fortnight were conducted between 1st and 15th Sept. 1997 and prizes were awarded to the winners.

Hindi Competitions were conducted every month from Jan 1997 to Aug 97. Later these were held once in a quarter.

Competition for the Institute Anniversary and as a part of the 50th Year of Independance were also held.

### **Hindi Workshop**

The first 'Two Days Across the Table Hindi Workshop' for 97.98 was conducted on 10th and 11th Dec 97 for one Accounts Section staff. The report was sent to the concerned.

The second Two days 'Across the Table' Hindi Workshop was held for the Training Section staff on 11th and 12th Feb 98.

### **Hindi Books/ Magazines**

News bulletins like Bhasha, Rajbhasha Bharathi, Rajbhasha Pushpamala, DGS&D bilingual bulletin etc., are being subscribed.

Further, the daily news paper 'Nav Bharat Times' is being subscribed.

### **Use of Hindi on Computer**

'Prakashak', software has been installed on the various nodes of Computer Lan Network, thereby making it feasible to work in Hindi. In addition, Hindi Shabdharathna Software has been installed in two computers and the work is in progress.

## CIVIL ENGINEERING SECTION

The Institute has Civil Engineering Section consisting of one Assistant Executive Engineer, One Assistant Engineer and one Care Taker of the Institute.

### I Work undertaken during the year is as follows:

(Rs. in lakhs)

Sl.No.	Name of the work	Estimated cost	Remarks
1	Construction of Guest House	46.90	Work completed
2	First Floor over C1 & C2 Quarters	6.00	Work completed
3	Special repairs to 'E' Type Quarters	3.00	Work completed
4	Maintenance of repair works	3.00	Work completed
5	Modification of New Office System	6.50	Work completed
6	Improvements of Audiology Department	3.50	Work in Progress
7	Water proofing to roof of Audiology	1.65	Work Completed
8	Construction of Ist Floor over Dining Hall	6.00	Work Completed
9	Water proofing to Therapy Building	0.35	Work in progress

### II Guest House and Dharmashala

The revenue collected from Guest House and Dharmashala for the year 1997-98 are as under.

1. Guest House	Rs. 31,570.00
2. Dharmashala	Rs. 13,430.00

Total Rs. 45,000.00

**PERSONNEL CELL****SANCTIONED POSTS AND STAFF POSITION AS ON 31.3.1998**

Sl.No.	Group	Staff Strength	<u>Staff Position</u>		
			SC	ST	OBC
1.	Group A	22	6	1	-
2.	Group B	10	-	-	1
3.	Group C	64	13	2	1
4.	Group D	49	15	1	-
Total		145	34	4	2

<b>Resignation</b>	<b>Group-B</b>	Mr.Rajendraswamy Clinical Supervisor
	<b>Group-C</b>	Mr. P.Rajeev Clinical Assistant
		Ms. Anupama Sampath Research Assistant