

# **AIISH**

## **ANNUAL REPORT 2000 - 01**



**ALL INDIA INSTITUTE OF SPEECH AND HEARING**

**Manasagangothri, Mysore - 570 006**

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# DIRECTOR'S REPORT

The year 2000-01 was marked by a lot of developmental activities in addition to the regular activities like training, clinical services, research, public education, material development etc.

The 36th meeting of the Executive Council held on 12.3.2001 under the Chairmanship of Dr. C. P. Thakur, Hon'ble Union Minister for Health and Family Welfare was an important event of the year. It approved a number of important proposals including creation of AIISH Research Fund. The 10th 5-year plan was approved in principle with an outlay of Rs. 54 crores. A major project in the new plan would be to develop the Department of Electronics into a National Center for Bio-Medical Engineering in the field of speech and hearing. The 34th meeting of the Finance Committee was held in November 2000. One of the proposals placed before the committee was to open regional centers of the institute during the 10th 5-year plan. The committee accepted, in principle, the proposal to open centers in Shillong for the North Eastern region and in Jaipur for the Western region. However, the proposal would be taken up for implementation in the 10th 5-year plan.

## ACADEMIC ACTIVITIES

The institute maintained its academic excellence as in the previous years. A total of 24 B.Sc students and 20 M.Sc students passed from this institute with flying colours.

The Affiliation Committee of the University of Mysore visited the institute on 2.3.2001 and recommended continuation of affiliation of the institute to the University. The institute is recognized by Rehabilitation Council of India for conducting paramedical courses in speech and hearing. The affiliation was renewed for a period of five years from 2001-2006 for M.Sc and 1999-2004 for B.Sc.

The following table shows the enrolment of students during the year 2000-01 :

B.Sc I Year	30
M.Sc I Year	23
Candidates working for Ph.D	04

## Stipend and Scholarships

The AIISH merit scholarships were awarded to ten students of II and III B.Sc and five students of II M.Sc. Stipend for all students was introduced during the year. Accordingly, I B.Sc and I M.Sc students were paid a stipend of Rs. 400/- and Rs. 650/

respectively. The Executive Council approved a stipend of Rs. 1,500/- per month during internship (B.Sc 4th year). AIISH research fellowship will be Rs.5,000/- per month for the first two years and Rs.5,600/- for the third year.

## Students Intake

The Executive Committee approved increase in the intake of students for B.Sc and M.Sc courses under self financing scheme. As a result, the intake of students for both B.Sc and M.Sc program has gone up by 2 making it 35 and 25 , respectively. It also approved change in the zonal reservation pattern and accordingly two seats will be reserved for the students of North East.

## Shortterm Training Programmes

Twenty six short term training programmes aim at disseminating current knowledge in the discipline of speech and hearing were conducted by various departments. They are listed below.

Topic	Department	Total No
Ear Mould Making	Audiology	7
Hearing aid repairs & servicing	Electronics	8
Normal development of speech and language	Sp. Pathology	1
Early identification of speech and hearing disorders	Sp. Pathology	1
Speech and language development of the hearing impaired child	Sp. Pathology	1
Speech and language of mentally retarded	Sp. Pathology	1
Language of the autistic child	Sp. Pathology	1
Misarticulation	Sp. Pathology	1
ALDs	Audiology	1
Auditory training	Audiology	2
Acoustic analysis of speech	Sp.Science	1
Auditory evoked response	Audiology	1



The institute conducted the following workshops and seminars.

### ♦ **National Workshop on Professional Voice Care : December 2000**

Professional voice users constitute an ever increasing segment of the clinical population in a voice clinic and their need for expert advice has created a new interest in understanding the use and misuse of human voice. Hence, this workshop was planned with a view to impart knowledge of basics, as well as recent developments in professional voice care. It also proposed to bring out a handbook on professional voice care. Renowned experts in voice science, practitioners of vocal music and others shared their views in the panel discussion. This discussion shed new lights on several aspects of voice and professional voice care. Participants of this workshop were speech pathologists, ENT doctors, musicians and other professionals. The workshop, wholly sponsored by the institute, was attended by 60 professionals from all corners of the country.

### ♦ **Workshop on Internship : June 2000**

Rehabilitation Council of India has made internship mandatory for speech and hearing graduates. This workshop was conducted to discuss on the practical aspects of internship and arrive at a suitable mechanism of operation. It was decided to introduce 1-year internship and make B.Sc a 4-year course. It was also suggested that internees be placed in other related institutes for gaining experience. An important outcome of the workshop was the finalization of a proforma to assess the internees based on the broad outlines suggested by RCI.

### ♦ **Workshop on Course Content for Specialized M.Sc : January 2001**

One of the major activities of the institute has been generation of manpower in the field of speech and hearing. Since the inception of the institute composite degrees are being awarded. However, with the expansion of knowledge, it was felt that introduction of specialized courses at postgraduate level would be appropriate. This would also help the students to keep pace with western universities. The syllabi for two specialized courses, viz., M.Sc in Audiology and M.Sc in Speech-Language Pathology were finalized.

### ♦ **Workshop on Auditory Verbal Therapy : March 2001**

The aim of this programme was to educate the teachers of the deaf, parents of hearing impaired children as well as speech and hearing professionals about the technique of auditory verbal therapy. This knowledge was imparted by experts in the form of lectures and live demonstrations on hearing impaired children. The workshop

was conducted by the institute in collaboration with M/s.Cochlear Limited, Australia and M/s. Pika Medical (P) Ltd., Bangalore. Eighty one individuals benefited from this workshop.

#### ♦ Workshop for Hearing Aid Users : March 2001

This one day workshop was organized in connection with World Disabled Day. This was conducted with a view to educate the hearing impaired individuals as well as their families about different types of hearing aids and assistive listening devices. They were also educated about all the other aspects of hearing impairment and hearing aid use.

#### Rehabilitation Council of India

All India Institute of Speech and Hearing has been recognized by Rehabilitation Council of India as a nodal center for conducting National Programme on Orientation of Medical Officers working in Primary Health Centres to Disability Management in the State of Karnataka. Launched in July 1999, the institute has conducted several training programmes. Three training programmes were conducted between 1.4.2000 and 31.3.2001 and 47 PHC doctors from the districts of Mandya, Kolar and Mysore of Karnataka were trained.

### CLINICAL SERVICES

Clinical services provided in the form of diagnostic, therapeutic and counseling services to the patients with speech and hearing problems have always formed a part of the regular activities of the institute. These services were rendered to a total of 26848 patients of which 12301 were new patients. The remaining (14547) were registered in the previous years. The following table gives the details :

No. of patients evaluated for hearing (a) at AIISH	8320
(b) at out-reach	11583
for providing hearing aids	3659
No. of free hearing aids issued under ADIP Scheme	2444
No. of hearing aids issued under POD project	177
No. of Patients evaluated for Speech language disorders	3346
No. of patients evaluated for providing therapy	3163
No. of individual therapy sessions conducted	31514
No. of group therapy sessions conducted	1552

The department of audiology is now well equipped to provide specialized services to different target groups. It has got a new facility with 16 sound treated rooms which conform to international standards. The increase in test facilities will not only improve the quality of services but also reduce waiting time for patients.

The construction of a speech-language therapy clinic building measuring about 50000 sq. ft. will set another milestone in the history of clinical services of the institute. Acceptance of the proposal by the government with the required grant Rs. 2.7 crores was one of the significant achievements of the year 2000-2001.

### **Community Service Programs**

Clinical services offered by this institute have always been extended beyond the institute premises. The following camps were conducted as a part of community service programme.

- ♦ In Yelandur, Gundlupet and Chamarajanagar, in collaboration with Women and Child Development Department, Karnataka (April 2000)
- ♦ In Chikkaballapura, in collaboration with the Farmers Development Agency, Chikkaballapura (July 2000)
- ♦ At Hunsur (July 2000)
- ♦ In Tumkur (July 2000)
- ♦ At Wayanad Kalpetta, in collaboration with DIET, Wynad (December 2000)
- ♦ In Bagepally, (January 2001)
- ♦ In Somawarpet, in collaboration with Rotary Club, Somawarpet Hills (Feb. 2001).

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No. of people evaluated for hearing	901
No. of people referred to the institute	354
No. of free hearing aids issued	145
No. of people evaluated for Speech, language problems	555
No. of people referred to the institute	220

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### **Assistance to Disabled Persons for Purchase/Fitting of Aids and Appliances**

Under the ADIP scheme, 2444 hearing aids were issued free of cost and 4 were issued at 50% cost. The budgets for this amounting to Rs. 19,17,833.00 was



met out of a grant of Rs. 20.5 lakhs sanctioned by the Ministry of Social Justice and Empowerment.

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

As in the previous years a lot of clinical as well as public education activities were carried out under the project Prevention of Deafness and Hearing Impairment funded by the Ministry of Health and Family welfare, Government of India

The activities under this programme included

- a) Screening of infants for hearing
- b) Screening of school going children for hearing loss
- c) Hearing conservation of industrial employees
- d) Hearing screening of senior citizens
- e) Orientation programmes for allied professionals and public
- f) Preparation and production of resource materials.

Hearing screening was carried out on infants at local hospitals, immunization centers and pulse polio centers. Hearing screening was also done on school children, industrial employees and in camps. The following table illustrates the screening programmes carried out under this project.

No. of infants screened	3956
No. referred to AIISH	130
No of school children screened	4234
No. referred to AIISH	384
No. of industrial employees screened	96
No. referred to AIISH	28
No. of people screened in camps	2767
No. referred to AIISH	591

The following public education booklets and handbills were prepared :

- ♦ Booklet on prevention of hearing loss in expectant mothers
- ♦ Booklet on prevention of ear discharge
- ♦ Booklet on effects of traffic noise on hearing
- ♦ Handbill on signs and symptoms of hearing loss in school Children.
- ♦ Handbill on early identification of hearing loss in infants

Public education pamphlets and posters were distributed in camps, extension services and during education tour

Video clippings regarding the ill effects of noise were developed and screened in the local cable network. Slogans on prevention of hearing loss were prepared in English, Kannada and Hindi. The ones in English and Kannada were displayed at the traffic junctions during the traffic awareness week.

Orientation lectures on prevention, identification and management of hearing impairment were given to the following target groups.

Target group	Number
Headmasters and Headmistresses	1708
Traffic Police	172
Trainee Nurses	419
CBR workers	10
Teachers of the deaf	112
B.Ed trainees	25
School teachers	362
Social workers	19
Women from various associations	126
Geriatric	30
Speech Therapist	2
Hearing aid users	51
Truck drivers	200
Total	3236

### Collaboration with World Health Organization

AIISH has been receiving WHO assistance since 1992-93. The grant received biennially has been utilized for purchasing equipment for the institute and towards strengthening and upgrading facilities at other centers. Two such centers were two medical colleges in Indore and Guwahati.

The funds have also been utilized for development of training modules on prevention of deafness and for training the trainers on prevention of deafness.

The task of preparing 6 training modules was taken up under this project. The objective of these training modules is prevention of deafness at primary, secondary and tertiary levels. In the year 2000-2001, five training modules meant for industrial

employees, hearing impaired and guardians of hearing impaired, nurses and medical professionals, grass-root level workers and on basic sound generation were finalized. Another one meant for nurses was in progress.

Apart from these, WHO has so far granted five fellowships to the staff of the institute for advanced training overseas in the field of audiology, speech pathology and bio-medical engineering.

## **RESEARCH**

As in the previous years the departments were busy with research activities of various interests.

### **Projects Completed**

1. Transformation of the Speech of the Hearing Impaired.

Funded by Department of science and Technology this project was almost complete in the previous year. However, the report was sent during this year.

2. Vibrotactile Chair

A vibrotactile chair is a unit which provides mild vibrations which is proportional to the strength of the speech. This chair provides sensory reinforcement which aids speech therapy. The vibrations are developed with the help of electromechanical system and the control system is developed with digital electronics. The project costing Rs. 45,000/- was funded by AIISH. The project was completed in co-ordination with Jayachamarajendra College of Engineering and the chair was handed over to the department of speech pathology.

### **Projects in Progress**

1. Fabrication of Mobile Audiological Unit.

Audiological evaluation needs to be carried out in a sound treated room. However, during outreach programmes, it is difficult to control the ambient noise. To overcome this problem, a mobile audiological unit was fabricated for audiological evaluation and rehabilitation. Fabricated by National Aeronautics Ltd., Bangalore, the van was delivered in January 2001. Agencies have been contacted for carrying out the acoustic treatment of the interiors of the van.

2. Developmental Milestones of Language Acquisition in Indian Languages: Kannada and Hindi.



It is funded by ICSSR with a total cost of Rs. 97,000/-. The objective of this project was to obtain normative data in language acquisition in Indian languages. Data collection and analysis are complete and report will be submitted shortly. This data will be useful for both diagnostic and therapeutic purposes when complete.

### 3. Preparation of Training Modules on Prevention of Deafness

Funded by WHO - this project was undertaken to prepare training modules to cater to the needs of six different target groups. Five modules were completed during the year as listed below :

- a) Training module for industrial employees
- b) Training module for the hearing impaired and/or the guardians of the hearing impaired
- c) Training module for nurses and medical professionals
- d) Training module for grass-root level workers
- e) Training module on basic sound generation.

### AIISH Research Fund

One of the significant events of the year was the creation of "AIISH Research Fund" consequent to a decision taken by the Executive Council with an initial grant of Rs.10 lakhs from Plan funds. This will set yet another milestone in the history of the institute. The area of speech and hearing being a relatively new and non traditional discipline has ample scope for research, especially, in a multilingual country like India.

The main objective of the fund is to promote multidisciplinary research in the area of speech and hearing. Hence, the research award is open not only for speech and hearing professionals but also for professionals from other fields like neurosciences, linguistics, acoustics, biomedical electronics, clinical psychology, genetics, rehabilitation science, otolaryngology etc.

This will be launched from 2000-01 with awards for short-term research projects of 8-10 months duration with a budget of Rs. 1.00 lakhs to Rs. 1.25 lakhs. The awards will be open to faculty of the institute and other speech and hearing professionals working in government institutions/autonomous bodies and public sector undertakings. It is expected that research done in the Indian context will shed new lights on speech and hearing problems and reduce dependency on western models of speech-language disorders and therapeutic techniques.

## OTHERS

### Institute Day

The 35th anniversary of the institute was celebrated. Dr. N. Ratna, former Director of AIISH was the chief guest. Speaking on the occasion Dr. Rathna narrated how the institute, since its inception, has grown and expanded. He also called upon the audience especially students to preserve and maintain the same standard of services offered to the needy. Smt. Premalatha Rathna distributed the prizes to winners of different competitions like sports, cultural events, quiz etc. held separately for students, staff and patients of the institute. This was followed by a colourful cultural function in which students, staff and patients spontaneously participated.

Mr. B. Prakash received the Best Clinician award. This award is given to a final year M.Sc student for best clinical performance assessed in terms of competence in administering speech-language therapy for various disorders, clinical documentation, punctuality, skills shown in preparation and development of materials for therapy, counseling and guidance given to patients and parents.

Smt. Rajamma, grand mother of Gautham, a child with CP and MR received the Mother of the Year award. This award is given to a woman caretaker who makes outstanding contribution in terms of home training and support towards overall improvement of the patients.

### National Service Scheme

The NSS unit of this institute has always been active in carrying out a wide range of social service activities. Environmental activities, cultural and sports activities, activities related to sanitation and blood donation etc. form a part of regular activities. In the year 2000-01 it launched a two year longitudinal health project to be carried out in three phases. The project aims at identifying people with speech and hearing problems and mental retardation and adopted 7 villages of the Yelwala Panchayat of Mysore District.

A 5-day special health camp was conducted at Bandalli, Hanur, Kollegal in association with Mysore Rehabilitation and Development Agency, Kollegal Project. The objective of this programme was to create awareness in the community about prevention, early identification and management of various speech, hearing and mental retardation problems.

The following table illustrates the NSS activities in a nutshell :

No. of people surveyed under health project	7000
No. of patients identified	355
No. of people surveyed under camps	9906
No. of people identified for further screening	870
No. of people screened for various disorders	781
No. of free hearing aids issued	10
No. of certificates issued for financial assistance	21

Amount of money collected for earthquake relief Rs. 2,500

### Student Activities

The year 2000-01 was an active one for the students of AIISH. They participated in a variety of programmes pertaining to academic, cultural, sports, clinical and social service activities. The following students brought accolades to the institute in the form of Best Paper Awards received at Indian Speech and Hearing Association Conference held at Mumbai in January 2001.

Ms. Kaveri Pant : Tone burst auditory brainstem response in high frequency hearing loss - in Audiology

Ms. Neha Rawat : Speech perception strategies in dysarthrics - in Speech Pathology

### Accolade

Ms. Namratha Mukhate, a student of III B.Sc participated in Kaun Banega Krorapati and received an amount of Rs. 10,000/-

### Public Education and Material Development

The following public education and training materials were prepared during the year :

- Booklet on prevention of hearing loss in expectant mothers
- Booklet on prevention of ear discharge
- Booklet on effects of traffic noise on hearing
- Hand bill on signs and symptoms of hearing loss in school children
- Hand bill on early identification of hearing loss in infants.
- Translation of home training programmes into 4 different languages for different disorders.



- g) Curriculum for preschool children with communication disorders.
- h) Booklets and charts for teaching various language concepts, prelinguistic skills and articulation.
- i) Electronic kits for teaching matching exercises for comprehension building.
- j) Audio cassettes (2 Nos) to teach sound awareness to children with learning disability.
- k) Thermocol model of brain and spinal cord.
- l) Charts for public education.
- m) Booklets to teach word segmentation and blending for children with learning disability.
- n) Flashcards for teaching various concepts.
- o) Slit board for management of fluency disorders.
- p) Thermocol model for teaching number, shape and colour concepts.

### Library and Information Centre

A new massive Library Information Center measuring about 30000 sq. ft. was constructed in a record time of 7 months. The library and information center, computer center and the academic section will be housed in the four storied building. The institute commissioned a microwave connection from Software Technology Park of India. Subsequently digitalization of the Library and Information Centre was taken up. This would enable the readers (a) to have easy access to and speedy retrieval of library information (b) to search for complete text of journals and books (c) to exchange information with various speech and hearing centers in the country. The following is the statistics :

No. of volumes as on 31.3.2001	12,252
No. of journals subscribed	47
No. of books/journals issued	78,171
No. of outside members	49

### Official Language Implementaiton

Hindi has been progressively used in the institute in preparation of Annual Report, Audited Statement of Accounts, Performance Budget and also in clinical services. The institute sponsored 20 individuals in taking different Hindi examinations. Different competitions were held in Hindi as a part of Hindi week celebrations.

### Staff Club Tournaments

Inter institutional central government employees tournaments were organized

by AIISH after a period of 14 years. A total of 200 participants representing 45 different central government offices of Mysore participated in three events viz., table tennis, chess and badminton.

### **Honors**

Dr. M. Jayaram was nominated to the Speech and Hearing Sub-Committee of the RCI as well as the GC of RCI during 2000-2001.

### **Visitors**

Professor Sadanand Singh, the renowned linguist from USA visited the institute in October 2000. He was greatly impressed by the activities of the institute, dedication of the staff and infra-structure facilities. He also commented that AIISH is the best equipped of all the institutes that he has visited throughout the world.

Mr. Vijay Singh, IAS, Joint Secretary (FA) Ministry of Health and Family Welfare, Government of India, visited the institute in January 2001. He appreciated the developmental work taking place at the institute. This was reflected in a largesse to the tune of Rs. 6 crores that he sanctioned spontaneously for plan budget of 2001-2002.

### **WHO Fellow**

Dr. M. M. Hussain, Asst. Prof. Department of ENT, Meymansingh Medical College, Bangladesh, visited the institute for four weeks in March 2001 as a WHO fellow. He was posted in different departments during which he learnt about various speech, language and hearing problems. He was also familiarized with therapeutic procedures in the therapy clinic.

### **Visit Abroad**

Dr. M. Jayaram, Director of this institute visited Denmark in the month of August to participate in the 3rd World Congress on Fluency Disorders. He presented a paper entitled "Stutterers' perception of stuttering in their speech".

Dr. K.C. Shyamala, Reader and HOD of Speech Pathology visited US for 9 months to do postdoctoral research on aphasia in bilinguals at A & M University, College Station, Texas.

## Fiscal Matters

The grants received by the institute during 2000-01 from different sources are as follows:

	Rs. in lakhs
Grant in aid (Plan)	350.00
Grant in aid (Non-plan)	186.00
ADIP	20.50
Donations	0.34
Internal revenue	9.47
Total	566.31

**Dr. M. Jayaram**  
Director



# **PHOTOS SECTION**



Mr. Vijay Singh, Joint Secretary (FA) Ministry of Health and Family Welfare, Government of India is being welcomed by a group of students.



A panoramic view of the institute garden.



The Chief Guest Dr. R. Sathyannarayana is being welcomed during the inaugural function of the workshop on Professional Voice Care.



Mr. C. Chandrashekar, Commissioner of Police, Mysore City is seen inaugurating the AIISH students Association by lighting the traditional lamp.





The Chief Guest, Director and other staff members are seen on the occasion of laying of foundation stone for the new library and information centre.



A view of the stall organised by AIISH during Dasara Exhibition.



Students are explaining speech and hearing problems to a group of school children in an exhibition during Dasara festival.



Dr. M. Jayaram, Director, AIISH, addressing the children with disability and their parents on the occasion of international day of the disabled.



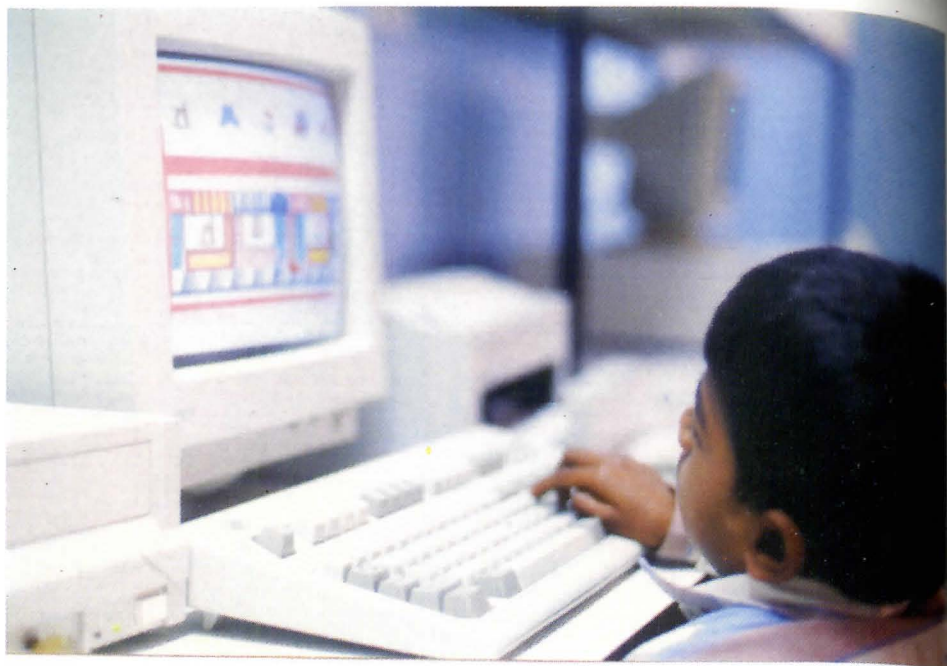


Celebration of the 35th anniversary of the institute. Dr. N. Ratna, Chief Guest, Dr. M. Jayaram, Director of AIISH and Smt. Premalatha Ratna are seen on the dais.



Smt. Rajamma, Recipient of the AIISH Mother of the Year award for 2000 and her grandson are seen with the chief guest Dr. N. Ratna.





Computerized therapy programmes are a reality to-day. A child with disability is seen learning language in the speech - language laboratory.



On the occasion of inauguration of inter-institutional tournament seen on the dais (L to R) are Dr. Manjit Singh Bawa, Director of DFRL, Mr. Abhayakumar, Commissioner Income Tax, Mysore Circle, Dr. M. Jayaram, Director, AIISH and Dr. Asha Yathiraj.

# DEPARTMENT OF AUDIOLOGY

The Department of Audiology is one of the major departments of the institute. It deals with normal and deviant aspects of hearing. The purpose of the activities are to enable the hearing impaired to make maximum use of their residual hearing, which will help them to communicate better. During the year 2000-2001, the department continued to pursue its objectives by (a) training postgraduates and undergraduates students in Audiology, (b) providing hearing evaluation, hearing aid trial and ear molds for hearing handicapped population, (c) carrying out research in the areas of hearing disorders, (d) conducting seminars, workshops, short-term training programmes, public education programmes and developing resource materials and (e) providing extension services in collaboration with other agencies.

## TEACHING AND TRAINING

Throughout the year the undergraduate and postgraduate students were imparted theoretical and practical training in Audiology. Eleven theoretical courses were conducted besides guiding students in carrying out independent projects and dissertations. The practical training involved 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, making of ear molds, guidance and counselling the needy.

### Short-Term Training Programmes

The following programmes were conducted during the year :

Title	No. conducted
ALDS	1
Auditory training	2
Ear mold and its modification	2
Auditory Evoked Potentials	1

### Workshops / Seminars Conducted

- ♦ Workshop on Auditory verbal therapy - March 2001
- ♦ Workshop for hearing aid users - march 2001

## Ph.D. Programme

The following thesis was submitted to the University of Mysore under the guidance of Dr. S. Nikam.

C.S. Vanaja : "Self assessment of hearing handicapped - A few audiological and non audiological correlates "

The following thesis is in progress under the guidance of Dr. Asha Yathiraj

P. Manjula : "Hearing aid selection using speech intelligibility index",

The following thesis is in progress under the guidance of Dr. C. S. Ramachandra, University of Mysore

K.J. Ramadevi Sreenivas : "Phonological Profile in Kannda: A study on Hearing Impaired"

## Dissertations

During the year 4 dissertations and 23 independent projects were completed under the supervision of the staff of the department. The titles are as follows :

Dissertations submitted :

Sl. No.	Name of the student	Title of Project
1.	Archana Guruprasad	Audiological evaluation of learning disabled children.
2.	Krithika Iyengar	Correlation between MMN for intensity and DLI
3.	Savitha Kamath	Prediction of loudness discomfort level using ABR.
4.	Shivaprasad Reddy	MMN in patients with sensori-neural hearing loss

## Independent projects submitted

Sl. No.	Name of the student	Title of Project
1.	U. Ajith Kumar	Contralateral suppression of acoustic reflex
2.	Aruna Kamath	Hearing aid selection protocol for ears with tolerance problems
3.	Arushi Chandra	DPOAE in recruiting and non- recruiting ears
4.	Anshula S. Odekar	LLR, P300, MMM in stutterers - Children & adults
5.	R. Bharathy	Role of genetics in hearing
6.	M. Beula Maria	Comparison of BOA and VRA
7.	C. Chandralekha	Improvement in speech perception using auditory training
8.	B. Harnish	High frequency audiometry in conductive hearing loss cases
9.	S. Jayaradha	Click evoked and tone burst evoked OAE in normal and cases with different configuration of audiogram.
10.	Kaveri Pant	Tone burst ABR in patients with sensorineural hearing loss
11.	Komal Arora	Effect of noise exposure on SOAE
12.	Laxmi Venkatesh	Monaural hearing Vs binaural hearing
13.	K. N. Naveen	Effective damper and its positioning in hearing aid amplification system.
14.	R. C. Perumal	Syndromes - A review
15.	M.N. Poornima	Incidence of hearing loss in school children
16.	P. Puranik Prachi	Dichotic CV test revised - Normative data



17.	N. Purnima	Comparison of digital and programmable hearing aids
18.	Rasheeda Begum	Speech perception (ESP) in young patients with profound hearing loss
19.	Sangeetha Mahesh	Speech reading test in Kannada
20.	B. Suresh	Comparison of ABR using insert receiver & headphone
21.	K.P. Swaroopa	Audiological pattern in families having more than one hearing impaired child
22.	G. Vijay Kumar	ABR changes in induced TTS
23.	S. N. Vinay	Effect of SOAE on TEOAE

Further, 5 dissertations and 22 independent projects were in progress as shown below :

### **Dissertations in Progress**

Sl. No.	Name of the Student	Title of Project
1.	Ajit Kumar V	Involvement of medial olivocochlear bundle in perception of speech in noise.
2.	Vinay S N	Compressional circuits: A unique replacement for outer hair cell loss in noise induced hearing loss patients
3.	Naveen	Real-ear-to-coupler differences in children
4.	Suresh B	Effect of audiometric configuration on ABR
5.	Poornima M N	Predicting behavioural BC thresholds using BC tonal ABR

## Independent Projects in Progress

Sl. No.	Name of the Student	Title of Project
1.	Kavitha Elizzabeth M.	A Tutorial on "pure tone audiometry"
2.	Anupriya	Comparison of BOA and OAE in hearing screening program
3.	Sabeena Kurian	Hearing screening procedures - current state of art
4.	Sharad Govil	Middle and late latency responses in subjects with auditory neuropathies
5.	Kiruthika C.	Comparison of P300 elicited in active and passive listening paradigm
6.	Sri Vidhya	The time-intensity trading relationships in LLR in normals
7.	Krupa Elizabeth Daniel	I/P-O/P function and threshold estimation using OAE in normals and industrial workers
8.	Neha Rawat	Development of environment sound test for assessing listening skills in children
9.	Anitha T.	Modified high risks register (HHR) for professionals and non-professionals- formulation and its efficacy
10.	Pamela Samaddar	TV listening devices for the hearing impaired: A comparison
11.	Mukesh Tyagi	Comparison of acoustic reflex threshold and acoustic reflex growth function in individuals with normal hearing and with sensori-neural hearing loss at varying click rates.
12.	Anna Kattaporam	Pure-tone hearing screening in children using automatic versus manual presentation
13.	Seetha L.	Recent advances in cochlear implants - A Review



14.	Prasanna Kumar E	Protocol for selection of FM systems for the hearing impaired
15.	Sathish K	Efficacy of orientation programs: A follow up
16.	Aditi Chakravarti	Review of technology to improve signal to noise ratio in hearing instruments
17.	Nithya Balakrishnan	Non-linear hearing aids - A review
18.	Gowri Krishna	Dichotic CV revised test: Normative data for children
19.	Suiddarth	Multi component tympanometry in diagnosis of middle ear pathology
20.	Mathew Andrews	A tutorial on Electronystagmography
21.	Ananti T	Evaluation of efficacy tinnitus relief system
22.	Mukundan S	Effect of length and diameter of the ear mold on the frequency response of the hearing aid

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## CLINICAL SERVICES

### Hearing Evaluation

A total of 19,903 individuals were evaluated/screened for their hearing problems. Of them 8320 cases were evaluated at AIISH and 11,583 evaluated/screened in out-reach programs. Detailed evaluation was carried out on all the patients registered at the institute, with the complaint of hearing loss and/or symptoms associated with hearing loss. Patients load included children, adults and geriatrics from all walks of life. Routine audiological evaluation included pure tone audiometry, speech audiometry and immittance evaluation. Measurement of auditory evoked potentials and oto-acoustic emissions was carried out whenever indicated. Compared to the previous years, the number of cases referred by the medical professionals with the symptom of giddiness was more. Majority of the patients seen in the department were referred by old patients of the institute. Other referral sources included school teachers, health workers and social workers. On account of the extension activities of the Prevention of Deafness and Hearing Impairment project, the number of children who were tested in the department increased significantly.

Baseline and monitoring audiograms were obtained from employees of various industries / organizations. Of the 96 employees evaluated, 28 were identified to have hearing loss.

## Hearing Aids

Hearing aid selection was done for 3659 individuals. Of them, 3093 were prescribed hearing aids. When compared to the previous years there was a marked increase in the number of individuals wanting canal hearing aids and assistive listening devices. Sixteen different types of hearing aids / assistive listening devices were procured for the purpose of hearing aid trial.

2476 hearing aids received for distribution under the Aids and Appliances scheme of the Ministry of Social Justice and Empowerment, Government of India, were tested and certified prior to distribution. Through the Prevention of Deafness Project 177 hearing aids were distributed to the hearing impaired. Trouble shooting of hearing aids was also carried out at the department.

## Earmolds

During the year 3824 ear molds were made for 2231 patients. In addition, 39 earplugs were made to be used as "swimmers plugs" or as ear protective devices by industrial workers

The concise statistics is given below (details in appendix)

No. of patients evaluated

1) for hearing

a) at AIISH

8,320

b) at out-reach programmes

11,583

2) for hearing aids

3,659

No. of patients prescribed hearing aids

3,093

No. of hearing aids received under ADIP scheme

2,476

No. of hearing aids issued free of cost

2,444

No. of hearing aids issued at 50% cost

4

No. of hearing aids distributed under POD project

177

No of ear moulds made

3,824

No. of ear plugs made

39

## Extension Activities

Identifying hearing loss early is one of the major aims of the department. With this in mind clinical services have been extended to outreach centers. This enabled a large number of individuals to benefit from the services of the department. Infants and children benefited maximally from the extension activities. The extension activities

were carried out for individuals of all ages, starting with the newborn infants and extending to the senior citizens.

Using the high-risk check-list and calibrated noise makers, 3956 infants were screened for hearing problems in the government maternity hospital and in immunization centers. Of them, 130 infants were referred for further evaluation. Screening programmes were conducted in collaboration with Family Planning Association of India in rural areas. 219 cases from rural areas were tested and 9 were advised to undergo detailed evaluation. Visits were made to schools to identify children with speech and hearing problems. Of the 4234 school children screened for hearing problems, 384 were referred for detailed evaluation at the institute. The services of an ENT specialist was made available during the extension activities carried out with Family Planning Association of India and at schools. This has resulted in a large number of individuals being treated for middle/external ear problems. These screening programmes served the dual purpose of education of the general public as well as identifying hearing problems.

### **Free Hearing Check-up Camps**

The staff of the department participated in the speech and hearing camps conducted in the following places:

- ♦ In Yelandur, Gundlupet and Chamarajanagar, in collaboration with Women and Child Development Department, Karnataka (April 2000)
- ♦ In Chikkaballapura, in collaboration with the Farmers development Agency, Chikkaballapura (July 2000)
- ♦ At Hunsur in July 2000
- ♦ In Tumkur (July 2000)
- ♦ In collaboration with DIET, Wayanad Kalpetta, Wynad (Dec. 2000)
- ♦ In Bagepally (January 2001)
- ♦ In Somawarpet, in collaboration with Rotary Club, Somawarpet Hills (February 2001)

## **RESEARCH**

### **Projects Under Progress**

1. Fabrication of a Mobile audiological unit

Audiological evaluation needs to be carried out in a sound treated room. However, during outreach programmes, it is difficult to control the ambient noise. To



overcome this problem, a mobile audiological unit was fabricated for audiological evaluation and rehabilitation. National Aeronautics Ltd., Bangalore was entrusted with the job of fabricating the same. The van was delivered in January 2001. Agents have been contacted for carrying out the acoustic treatment and ducting for the same.

## 2. Prevention of Deafness and Hearing Impairment funded by Ministry of Health and Family Welfare.

This project was initiated in 1996-97. The activities of the project included women empowerment, infant hearing screening, screening of school-going children for hearing, hearing conservation of the industrial employees, hearing screening of elder citizens, orientation programs for allied professionals and public, and preparation and production of resource materials.

As a part of the programme, extension services were carried out to screen hearing of infants, school children, industrial workers and geriatrics. In addition, eleven hearing screening/evaluation camps were organized through the project to identify hearing impairment and rehabilitate the individuals.

The data obtained in the project is being analyzed to note the most appropriate test protocol for evaluating individuals of various age groups. The cost effectiveness and time-effectiveness of different test protocols has been established. The prevalence of different types of hearing impairment in school going children and industrial workers is being investigated.

The following table indicates the number of individuals who were screened/evaluated, referred for detailed evaluation and rehabilitated under the project :

Sl No	Activity	No. screened/ tested	No. referred to AIISH	No. of hearing aids issued
01	Infant screening	3956	130	-
02	School screening	4234	384	-
03	Hearing conservation program	96	28	-
04	Testing at KRH		316	-
	Rural	340		
	Urban	286		
05	Camps	2767	591	293
06	At AIISH	-	-	177



## **Preparation of Training Modules on Prevention of Deafness, funded by WHO**

Finalization of matter for five training modules has been carried out. These include the following :

- a) Training module for industrial employees
- b) Training module for the hearing impaired and/or the guardians of the hearing impaired
- c) Training module for nurses and medical professionals
- d) Training module for grass-root level workers
- e) Training module on basic sound generation.

Designing and printing of the training module for the nurses is in progress.

## **Fabrication of Tangible Reinforcement Operant Conditioning Audiometry from plan funds of AIISH**

The fabrication of the unit is under progress in the department of Electronics, AIISH. Once fabricated, the unit will be field tried on normal as well as hearing impaired individuals.

## **OTHERS**

### **Public Education Programme**

- ♦ Three public education booklets and two handbills regarding prevention of hearing impairment were prepared. These include the following :
  - ♦ Booklet on Prevention of hearing loss in expectant mothers
  - ♦ Booklet on Prevention of ear discharge
  - ♦ Booklet on Effects of traffic noise on hearing
  - ♦ Handbill on Signs and symptoms of hearing loss in school Children.
  - ♦ Handbill on Early identification of hearing loss in infants
- ♦ Public education pamphlets and posters were distributed in camps, extension services and during education tour.
- ♦ Video clippings regarding the ill effects of noise were developed and screened in the local cable network. Slogans on prevention of hearing loss were prepared in English, Kannada and Hindi. The ones in English and Kannada were displayed at the traffic junctions during the traffic awareness week.
- ♦ Orientation lectures on prevention, identification and management of hearing impairment were given and the video films were screened to the following target groups :

Target group	Number
Headmasters and Headmistresses	1708
Traffic Police	172
Trainee Nurses	419
CBR workers	10
Teachers of the deaf	112
B.Ed. trainees	25
School teachers	362
Social workers	19
Women from various association	126
Geriatric	30
Speech therapist	2
Hearing aid users	51
Truck drivers	200

## Honors

Dr. Asha Yathiraj

\* Served as :

- ♦ Editor of Journal of Indian Speech and Hearing Association.
- ♦ Member Board of Studies,
  - \* University of Mysore
  - \* Sri Ramachandra Medical College and Research Institute (DU), Chennai
- ♦ President, Student's Association, AIISH

Dr. K. Rajalakshmi

- \* Served as Chairperson for the Board of Examiners for B.Ed hearing impaired for Calicut University.

## Workshops / Conferences / Symposium Attended

\* Dr. Asha Yathiraj presented the following papers:

- ♦ Method for teaching hearing impaired and educational placement of the hearing impaired at the Seminar on Hearing Impairment and its Effects in Deaf Education, Bangalore - September, 2000.
- ♦ Audiological management of central auditory processing disorders at the national conference on Neuro diagnostic audiology, organized by Dr.S.R.Chandrashekar of Institute of Speech and Hearing, Bangalore - November, 2000

- ♦ An overview of devices which facilitate auditory verbal communication at the workshop on Auditory Verbal Therapy held at AIISH - March 2001.
  - ♦ Infant hearing screening - A comparison of different techniques at ISHACON at Mumbai - January, 2001
  - ♦ Dichotic CV test-oral Vs written responses at ISHACON at Mumbai - January, 2001.
  - ♦ Integration of the hearing impaired at schools in RIE, Mysore - March, 2001
  - ♦ Early identification of hearing impairment in children at ATI, Mysore - April, 2000
- \* Mrs. C.S. Vanaja presented the following papers during the year:
- ♦ Instrumentation for hearing evaluation at a training programme for engineers, SJCE, Mysore - September, 2000
  - ♦ "Event-related potentials" at the National Conference on Neuro Diagnostic Audiology, organized by Institute of Speech and Hearing, Bangalore - November 2000
  - ♦ Hearing loss in musicians at workshop on Professional Voice Care at AIISH, Mysore - December, 2000.
  - ♦ Tone burst ABR in sloping sensori-neural hearing loss (co-author) at ISHACON, Mumbai and won the best paper award - January, 2001.
- \* Mrs. P. Manjula presented the following papers :
- ♦ Role of the audiologist in early detection and evaluation of the hearing impaired and hearing aids and ALDs at the seminar on Hearing Impairment and its Effects in Deaf Education, Bangalore - September, 2000.
  - ♦ Hearing screening of school-going children - A report at ISHACON, Mumbai - January, 2001.
- \* Mrs. K.J. Ramadevi Sreenivas presented the following papers :
- ♦ Language Disorders at the National Seminar on Current Trends in Linguistics at KIKS, Manasagangothri, Mysore - November, 2000.

## Major Equipments Procured

- 1) ACME Motor Diesel Generator
- 2) Maico MI 34 Middle Ear Analyzer
- 3) Maico MA 53 Diagnostic Audiometer
- 4) Maico MA 52 Clinical Audiometer

- 1) GSI 33 Middle Ear Analyser V.2

### **PUBLICATIONS**

Yathiraj A. (In press) : Effect of hearing threshold on comprehension and expression of children. Journal of Indian Speech and Hearing Association, 15

Vanaja C.S. (in Press) : Interaction effects of stimulus parameters on MMN-I. Intensity Vs Rate Journal of Indian Speech and Hearing Association, 15

Vanaja C.S. (in Press) : Two consecutive pre-operative audiological test evaluation of a case with retro cochlear pathology. Journal of Indian Speech and Hearing Association, 15



# DEPARTMENT OF CLINICAL PSYCHOLOGY

The department of Clinical Psychology is primarily concerned with psychosocial aspects of communication disorders from different perspectives viz., research, training and clinical practice.

## TEACHING AND TRAINING

The students posted to the department were trained in taking case history, testing and counseling under supervision of departmental staff. The students also received training in administering, scoring and analysis of various psychological tests like intelligence tests, personality tests and projective techniques. The students also received training in behavior modification, bio-feedback, assertiveness training, psycho-drama, group therapy, cognitive therapy, cognitive behavior therapy, guidance and counseling for cases with communication disorders and or their care takers.

### Ph.D. Programme

The following Ph.D. theses were in progress under the guidance of Dr. P. Kalaiah :

- ♦ Mr. Firas Saleh Daher Al-Fwares : Development of a package of therapies for Arabic speaking stutterers based on personality characteristics (Foreign candidate)
- ♦ Mr. Venkateshaiah : Angavikala makkala vyaktithva vikasakke poshakara matthu samajada prabhava - ondu adhyayana
- ♦ Mr. R. Jayaraju : Karnataka rajyada vivida karagrahagalalli iruva angavikala aparadhigala maanasika samasyegala ondu samagra adhyayana
- ♦ Mr. Jagadish : The impact of parental attitude on temperament, adjustment and social maturity in hearing handicapped children

The following thesis was in progress under the guidance of Dr. Jyothi S. Madgaonkar, University of Mysore

- ♦ Mr. H.H. Raju : A study of job satisfaction in relation to occupational stress and quality of life of employees in public and private sectors

## CLINICAL SERVICES

The department provided clinical services as shown below:

New cases	2,997
Follow-up	492
No. of patients given therapy	142
No. of therapy sessions	2,848

Different types of patients evaluated at the department are given in the table below:

Sl No.	Diagnosis	No. of cases
1	Mental retardation	1140
2	Autistic disorder	09
3	Delay speech language	404
4	Articulation disorder	102
5	Normal non-fluency	37
6	Stuttering	2
7	Specific learning disability	59
8	Cerebral palsy	22
9	Aphasia	33
10	Functional dysphonia	14
11	Hearing loss	1100
12	Voice disorders	29
13	Others	145
Total		3359

Patients attending the department also received certificates which would enable them to get financial assistance, travel concessions, income tax rebates, special school admissions, exemptions from second language study in school, L.I.C. / U.T.I. schemes (shown in the table given below):

Sl. No.	Certificates and reports	No. of cases
1.	M.R. certificates for pension	479
2.	Railway concessions for M.R. persons	57
3.	Income-tax rebate for parents of M.R. persons	30
4.	Psychological reports for special school admissions	49
5.	Certificates for language exemption in children with learning disabilities	37
6.	LIC / UTI deposits for M.R. persons	19

## RESEARCH

### Projects Under Progress :

1. Parental Attitude towards Hearing Handicapped Children.
2. Development and Standardization of Scale on Mathematical Assessment for Remedial Teaching (SMART-Kv).
3. Teaching Children with Arithmetic Delays; Manual for Instructors
4. Validation and Extension of Gessells Drawing Test for children with Communication Disorders.
5. Vocational Assessment of the Communicatively Handicapped.
6. Identification and Remediation of Numeration Difficulties in Children with Arithmetic Disorder.

## OTHERS

### Honors

Dr. P Kalaiah served as

- \* Member, Selection Committee for Selection of Group C & D Posts at Regional Institute of Education, Mysore.
- \* Member, Board of Studies in Psychology, P.G.Department of Studies in Psychology, University of Mysore, Manasa Gangothri, Mysore
- \* Estate Officer, AIISH.

Dr. S Venkatesan served as Warden for AIISH Hostels.

Dr. G Jayaram served as NSS Coordinator



## PUBLICATIONS

1. Venkatesan S. (2000) - Play Activities in children with Mental Retardation. Indian Journal of Clinical Psychology, 27, 124-128
2. Venkatesan. S. (2001) - Parents Opinion on Prevailing Practices in Pre-school Education. Journal of Indian Education, 26, 57-64.
3. Venkatesan S. (2001) - Management of Behaviour problems in elementary School settings Chapter in book titled "Management of Learning and Behaviour Problems in Elementary School Settings: Guidelines and strategies". Mysore: Regional Institute of Education.

## DEPARTMENT OF ELECTRONICS

During the year 2000-01, the department of Electronics continued to pursue its objectives by (a) training undergraduates and postgraduates in basic electronics and acoustics, (b) calibration of various instruments, (c) repairing hearing aids, (d) maintaining various electrical and electronic appliances, (e) computer networking and (f) development of electronic devices.

### TEACHING AND TRAINING

Basic electronics and acoustics were taught to undergraduate and postgraduate students. The students were also trained on repairing of various types of hearing aids and calibration of equipment used in the field of speech and hearing.

#### Short-Term Training Programmes

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Title	No. conducted
-----	
Hearing aid repairs and servicing	8
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### MAINTENANCE OF EQUIPMENT

#### Hearing Aid Servicing

Hearing aids issued under ADIP scheme were regularly serviced along with patients' own hearing aids (appended below). The annual requirement of spares for all types of hearing aids were procured, tested and certified.

All the serviced hearing aids were evaluated to satisfy the standards by using FONIX 6000 C and IGO HAT 1000 instruments.

-----	
Type of Hearing Aid	No.
-----	
Body Level Hearing Aids	396
Behind the Ear Hearing Aids	62
-----	

## Instruments Servicing

Equipment belonging to all the departments / sections were serviced effectively with minimum downtime (appended below). Two approaches have been made i.e., servicing of equipment and calibration of equipment. All the audiometers and immittance meters were calibrated regularly to meet the ANSI standards.

Functional instruments such as sterilizers, voltage stabilizers, ZEISS microscope and otoclave were attended to regularly.

Apart from the routine activities of the department, it also looked after the regular operation, maintenance of computer networking, LAN, Internet and E-mail, supervision of electrical work at New Library Block, Computer LAN connection, New Audiology Block, New EPABX system and Library Automation work.

Nature of work	Type of work	
	Major	Minor
1. Equipment serviced	130	126
2. Electrical work attended	159	32

## RESEARCH

### Project Completed

#### 1. Vibrotactile Chair

Sensory reinforcement for children is good for therapy. Vibrotactile chair is one such unit which provides mild vibrations which is proportional to the strength of the speech. The vibrations are developed with the help of electro mechanical system and the control signal is developed with digital electronics. The project costing Rs. 45,000/- was funded by AIISH. Mr. H.S. Sathish, was the principal investigator while Mr. M.K. Seetharam, Electronics Engineer and Mr. S.R. Srinivas, Junior Technical Officer were the co-investigators.

The project was completed in coordination with Sri Jayachamarajendra College of Engineering. The software and custom made unit was handed over to the department speech pathology.



## **Projects Under Progress**

### **1. Project on CD Speech Discrimination Test**

This project was taken up to develop CDs for testing speech discrimination in patients in different Indian languages. The main purpose of this project was to eliminate errors encountered during speech discrimination test with live speech (the accent of the clinician will be different for different languages). The project could not be completed due to non-availability of the components. The project costing Rs. 1.20 lakhs was funded by the institute.

Computer and computer video clipping system, hardwares for the development of software were procured.

### **2. Computer System**

The department also took up two new computer related projects viz., installation of LAN connection for the whole institute at the cost of Rs.20 lakhs and installation of EPABX system at the cost of Rs.10 lakhs.

## **OTHERS**

### **External Consultancy**

The department also renders help to other organizations in carrying out the calibration of audiometers, measurement of industrial noise / instrument noise and guidance for the construction of audiometric rooms. The department offered such consultancy services to the following organizations during the year 2000-2001.

NIMHANS, Bangalore

Duracell, Haryana

Marthoma School, Kasargod

### **Professional Training**

Ms. Chudamani and Mr. B.N. Balasubramanya received six-months training on Professional Web Development and Internet Application from July 2000-2001 at Presidium Training Center, Mysore - July 2000 - January 2001

Mr. B. N. Balasubramanya received training on digitalization of libraries at the workshop on Digital Libraries held at University of Mysore - January 2001

Mr. S. R. Srinivasa received training in computer application, from Software Technology Group International Ltd., at AIISH - July 2000

## DEPARTMENT OF ENT

The department of ENT is a well equipped, specialized department of the institute concerned with clinical services to patients with various types of communication disorders.

### TEACHING AND TRAINING

In addition to regular teaching of ENT subjects to undergraduates as well as postgraduate students, the pathology of speech and hearing disorders was taught by clinical demonstrations using various instruments and operating microscopes. The students were also exposed to clinical aspects of diseases pertaining to speech and hearing.

### CLINICAL SERVICES

Various ear, nose and throat diseases were diagnosed using modern equipment like microscope, endoscope and ENG etc. Minor procedures like suction clearance of ear discharge, removal of foreign bodies, removal of wax etc. were regularly conducted. The department of ENT, AIISH is running a separate unit (AIISH ENT "C" Unit) at K.R. Hospital attached to Mysore Medical College. Major, minor and emergency operations are performed at K.R. Hospital. In-patient facilities are being provided at K.R. Hospital (20 beds for male and 10 beds for female) for patients of the AIISH ENT unit.

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No. of cases seen at AIISH	19,848
No. of cases seen at K.R. Hospital	9,758
Major operation performed	251
Minor operation performed	90

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The major surgeries performed were mastoidectomy, tympanoplasty, microlaryngeal surgery among others. Minor surgeries included, among others, myringotomy gromelte, aural polypellotomy, tongue tie release etc.,

### RESEARCH

#### Projects Under Progress

1. Pre-operative and Post-operative Cases and Evaluation of Voice Disorders.
2. Chemical Cauterization for Small Central Perforation (silver Nitrate)
3. Long-term Follow-up of CSOM cases.
4. Comparison of Different Modalities of Treatment in Tinnitus.

5. ENG - its Diagnostic Applications to Oto and Neurological Disorders.
6. Post Operative Nicrolaryngeal Surgical Care and Stapedectomees.

## **OTHERS**

### **WHO Fellow**

1. Dr. Md. Monwar Hossain, Associate Professor of ENT, Meimansingh Medical College, Bangladesh, was given training at the department under WHO fellowship  
- March 2001

## DEPARTMENT OF SPEECH PATHOLOGY

The Department of Speech Pathology is one of the major departments of the institute. During the period under report, the department continued to pursue its objectives by (a) training postgraduates and undergraduates in speech and language pathology, (b) providing diagnostic and therapeutic services to persons with speech, language and communication disorders, (c) carrying out research in identified areas of communication disorders and (d) conducting seminars, workshops, short term training programmes, public education programmes and developing resource material.

### TEACHING AND TRAINING

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

#### Short Term Training Programmes

The following programmes were conducted during the year :

Title	No. conducted
Normal development of speech and language	4
Early identification of speech and hearing disorders	1
Speech and language development of the hearing impaired child	1
Speech and language of mentally retarded	1
Language of the autistic child	1
Misarticulation	1



## Ph.D Programme

The following theses were in progress under the guidance of Dr. K.C. Shyamala :

S. Philomena	:	Writing Deficits in Hearing Impaired
Satyapal Puri Goswami	:	Comprehensive Deficits in Aphasics.
Swapna Sebastian	:	Comparison of Language Skills in Normal Children and Children with Language Disability and Learning Disability.

## Dissertations

During the year 3 dissertations were completed and 10 dissertations were in progress under the supervision of the staff of the department. The titles are as follows

### Dissertations Submitted

Sl.No.	Name of the student	Title of the dissertation
01	P. Akila	Phonological awareness and orthographic skills in Tamil Speaking children
02	Anne Varghese	Reading comprehension and listening comprehension among III and IV grade children
03	Sapna Bhat	Syntactic deficits in Aphasia

### Dissertations in Progress

Sl.No.	Name of the student	Title of the project
01	Beula Maria	Protocol for identification of aphasia of Speech in Broca's aphasia
02	Harnesh Battacharjee	Phonological processes in developmental aphasia of speech - a case study
03	Kaveri Pant	Perception and production of emotive intonation in individuals with right hemisphere damage
04	N. Purnima	Applicability of Mayo clinic classification system in Cerebral palsy.

05	R. C. Perumal	Voice initiation and termination time in normal children and children with stuttering
06	Komal Arora	Acoustical, temporal and perceptual aspects of TGP and gastric Speech Phonological process in 3-4 yr. Old - Tamil Speaking children
08	Aruna Kamath	Cognitive-Linguistic assessment protocol (CLAP)
09	Chandralekha	Perseveration in geriatrics
10	Swaroop	Checklist for assessment of language based reading disabilities in children (Che-SLR)

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## CLINICAL SERVICES

Clinical services were rendered to the needy both in the diagnostic section and in the therapy clinic. Case history of 3,389 patients was taken in the diagnostics during the year. Speech valuation was done for 3,350 cases with various types of communication disorders. The needy patients were sent to the therapy clinic for speech/language therapy.

The full-fledged therapy clinic under the department also pursued its objectives of (a) training student clinicians in rehabilitating children and adults with speech and language problems, (b) providing rehabilitation services to the needy, (c) providing public education services and (d) developing materials.

The department also runs a preschool for children with hearing impairment, mental retardation, cerebral palsy, learning disability etc. The objective of this programme is to achieve successful integration in the school. The activities in the school were planned with specific curriculum framed for various communication disorders. Thirty children in the age group of 2-5 years were trained in the preschool during the year.

Patients with various types of communication disorders were given speech, language and communication therapy at the therapy clinic. A total of 3,163 cases attended 31,514 sessions of speech and language therapy.

For effective implementation of speech and language therapeutic services beyond the clinical set-up, itinerant services were provided. The itinerant speech therapist visited the schools wherein the children availing therapeutic services were integrated. The therapist oriented the teachers towards the scholastic problems of the children with communication disorders and also visited the work set-ups and homes wherever

required. The statistics of clinical services is given in a nutshell (details in appendix).

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No. of case history taken in diagnostics	3,389
No. of patients evaluated for speech and language disorders	3,350
No. of patients given therapy	3,163
Total No. of therapy sessions	31,514

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Professional services of a visiting physiotherapist and plastic surgeon was made available to children and adults having sensory motor disorders with associated speech-language problems and maxillofacial abnormalities. The prosthodontic technician under the guidance of a speech-language pathologist and plastic surgeon provided the following services in the year 2000-01 :

a) Plastic surgery services	70
b) Cleft palate prostheses prepared	08
c) Speech bulb prostheses prepared	05
d) Speech bulb prostheses (study models)	05
e) Cleft palate prosthese (study models)	04

## RESEARCH

### Project Under Progress

1. Developmental Milestones of Language Acquisition in Indian Languages: Kannada and Hindi - funded by ICSSR, New Delhi.

The objective of this study is to obtain normative data on language acquisition in different Indian languages. Data collection and analysis are complete. The report will be submitted shortly. This data will be useful for both diagnosis and therapy. Dr. K. C. Shyamala and Dr. Basanti Devi are the investigators of this project.

## OTHERS

### Honors

Dr. Basanti Devi

\* Served as

o Editor Annual Report of AIISH 1999-2000

Dr. R. Manjula

\* Served as

- o member in the selection committee for staff of POD Project - Audiology
- o RCI inspector for recognition of M.Sc course in Speech and Hearing at ISH, Bangalore on 22.7.2000.
- o member, BOE for M.Sc courses at ISH, Bangalore
- o Co-ordinator and supervised activities with respect to speech and Hearing pavilion at the Dasara exhibition from 2nd week of October 2000 to 1st week of January 2001.
- o member, BOS, AIISH, Mysore.
- o member of DPC on 2/2/01.
- o Represented the institute in the workshop on "Assessment and Accreditation of Institutions", "Research in special education", "Status of disability in India 2001", organized by RCI at SNDT Women's University, Mumbai on 28th Feb. to 2nd March 2001.

Dr. K.S. Prema

\* Served as

- o Co-ordinator of the workshop on "Course contents for specialized M.Sc" - January, 2001.
- o a panel speaker in "Training program for preparation of District Level Plan of Action" at ATI, Mysore - January, 2001.
- o a Guest Speaker in the Mini-seminar on child language disorders at Mumbai in connection with ISHACON (20th & 21st Jan. 2001).
- o a resource person in 5-day training program in IED held at RIE, Mysore (27th Mar 2001). Delivered lectures on :
  - \* Speech and Language disorders in preschool and school-aged children.
  - \* Courses, characteristics and identification of speech and language disorders.
- o Represented the institute in the workshop for "Training of trainees for census - 2001" at Chennai - November, 2000.

Dr. Y.V. Geetha

- \* Represented the institute in the workshop on "Sensory Integration and Neuro development approaches" held at AYJNIHH, Mumbai - March 2001.

Ms. N. Swapna

- \* Won the young scientist award at the international conference on Neurology, Language and Cognition held at Thiruvananthapuram - December, 2000.



## **Workshops / Seminars / Conferences attended**

Dr. R. Manjula presented the following papers :

- a) Delivered two guest lectures on the topic "Diagnosis and management of speech and language impairment" at Department of Food & Nutrition, Manasa Gangothri, Mysore - February, 2001.
- b) Dysprosody in neurogenic speech language disorders at international conference on Neurology, Language and Cognition held at ICCON, Tiruvananthapuram - December, 2000

M. Pushpavathi presented the following papers

- a) Neurogenic voice disorders at the workshop on Professional Voice Care at AIISH, Mysore - December, 2000.

Dr. K S Prema presented the following papers

- a) Metalinguistic skills and reading acquisition: perspective from semi-syllabic script at the international conference on Neurology, Language and Cognition held at Thiruvananthapuram - December 2000.
- b) "Communication impairment" at the State level seminar on Census India 2001, held at Bangalore - December, 2000.

N. Swapna presented the following paper

- a) Speech perception abilities of children with specific learning disability at the international conference on Neurology, Language and Cognition - 2000 held at Trivandrum - December 2000.

Dr. Y.V. Geetha presented the following paper

- a) Classification of developmental language disorders - an exploratory study at the international conference on Neurology, Language and Cognition - 2000 held at Thiruvananthapuram - December 2000

**The following papers were presented along with students as mentioned :**

- \* R.Manjula & Chanchal Kumari : Intonation in speech of hearing impaired in a counting task. Paper presented in 2nd SAARC ENT congress held at Katmandu, Nepal from 24-27 May 2000.

- \* R Manjula : Computers in the rehabilitation of hearing impaired. Paper presented at the State level seminar on hearing impairment and its effects on deaf education, conducted by Karnataka Welfare Association for the deaf at Bangalore - September, 2000.
- \* Neha Rawat & R Manjula : Listeners strategies in perception of speech of hypotonic dysarthria at ISHA conference held in Mumbai. Received "Muktesh award for the best paper in Speech Pathology".
- \* Namrata. M; Sundaravel & R.Manjula : Speech ties: A case report presented at ISHA conference held at Mumbai - January, 2001.
- \* Sreevidya & R. Manjula : Worster-Drought syndrome: a distinct clinical entity presented at ISHA conference held at Mumbai - January, 2001.
- \* Harneesh B & R.Manjula : Developmental apraxia of speech: A retrospective analysis (second author) presented at ISHA conference held at Mumbai - January, 2001.

### **Material Development**

The following materials were developed in the department

- a) Translation of home training programmes into 4 different languages for different disorders.
- b) Curriculum for preschool children with communication disorders is under progress.
- c) Booklets and charts to teach various language concepts, prelinguistic skills and articulation.
- d) Electronic kits for teaching matching exercises for comprehension building.
- e) Thermocol model of brain and spinal cord to teach number, shape and colour concept slit board.
- f) Audio cassettes to teach sound awareness to children with learning disability.
- g) Charts were developed for public education.
- h) Booklets to teach word segmentation and blending for children with learning disability.
- i) Flash cards were prepared to teach various concepts.

### **Major Equipments procured**

- a) Digital tape recorder
- b) HCL Infinity 2000 HL-Intel Pentium III Computer

- c) Laptop computer with speech therapy system with more than 30 voice activated games

## Visitors

The following people visited the department during the year :

- ♦ 30 primary school teachers from Mysore.
- ♦ Special educators from Chennai Rehabilitation center.
- ♦ 32 Nursing students from Mission Hospital.
- ♦ 12 PHC Doctors.
- ♦ 50 DIET teachers from Raichur.
- ♦ 2 PUC students from Mahajan's college.
- ♦ 4 B.Ed students from Sharada Vilas College.
- ♦ Swamiji's from ISCON.
- ♦ 3 B.Ed students from Somani College.
- ♦ Clinical Psychologist from Bokaro Steel Plant.
- ♦ 2 B.Ed students from Sharada Vilas College.
- ♦ 4 school teachers from Dharwad.
- ♦ 22 B.Sc Speech and Hearing students from Dr. M.V. Shetty College, Mangalore.
- ♦ 15 visitors from CBR, Bangalore
- ♦ Mr. Shankar Papalan from Amaravathi.
- ♦ Ms. Krystina from UK
- ♦ 2 Speech Pathologist from Germany.
- ♦ Voice specialist, Dr.Linda Marvin from New York University.
- ♦ 20 teachers trainees from Karnataka Handicrafts Association.
- ♦ 1 Architect from Thiruvananthapuram.
- ♦ 50 Special education teachers from Dharwad.
- ♦ 26 people from blind school, Mysore.
- ♦ 12 CBR trainees from Kundapura.
- ♦ Mr. Vijay Singh, Financial Secretary from Ministry.
- ♦ 20 Diploma students (special education in MR) from Mangalore.
- ♦ 7 members from Air Force Medical College, Bangalore.
- ♦ 1 student from Mangalore.
- ♦ 24 B.P.T. students from Little Flower Hospitals, Kerala.
- ♦ 27 Psychology students from Davanagere.
- ♦ 21 Special B.Ed(Hearing Handicapped)students from Thirupathi.
- ♦ 16 Teacher trainees from Sahana Vilas College.
- ♦ 20 students from M.V.S.T. College, Mangalore.
- ♦ 10 P.H.C. doctors.
- ♦ 2 special educators from Ahemadabad
- ♦ 45 Nurses from K.R.H.
- ♦ 5 B.Ed teachers from Kejinallal B.Ed College
- ♦ 10 B.Ed students from Institute of Education, K.Nagar.

- 30 students from School of Nursing (S.C.V.D.S.)
- 15 Lecturers from A.P.
- Dr. Wahad (Audiologist) from Saudi Arabia.
- Dr. M.M.Hussain from Bangladesh.

### Visit Abroad

Dr. K.C. Shyamala, Reader and HOD visited US for 9 months to do post doctoral research on Aphasia in Bilinguals at A & M University, College Station, Texas.

### PUBLICATIONS

Manjula R. (2000) : Intonation in speech of hearing impaired in a counting task. Proceedings of 2nd SAARC ENT Congress

Manjula R. ; Prema K. S. ; Jayaram M. (in press) : Chapter on Communication disorders - prevention and management for the RCI manual for PHC medical officers.

Pushpavathi M. (in press) : Neurogenic voice disorders. Proceedings of workshop on Professional Voice Care, AIISH, Mysore.



# DEPARTMENT OF SPEECH SCIENCES

Established in 1984, the Department of Speech Sciences is actively involved in training, research, clinical activities and public education. The primary objectives of the department are to (a) train students to understand the normal aspects of speech and hearing sciences, (b) advance our understanding of the acoustic aspects of speech and hearing disorders among children and adults, (c) develop and investigate innovative research ideas geared toward the evaluation, treatment and rehabilitation of individuals having speech disorders, (d) obtain external funding for research projects, and (e) develop collaborative research across several disciplines related to the speech and hearing sciences.

## TEACHING AND TRAINING

The faculty of the department were involved in teaching courses on (a) introduction to speech and language, (b) anatomy and physiology of speech and language systems, (c) normal aspects of voice, articulation and fluency and (d) advanced course normal aspects of voice, articulation and prosody to undergraduate as well as postgraduate students.

Undergraduate and postgraduate students were imparted training in taking case history, evaluation, diagnosis and treatment of various speech disorders.

The following programmes were conducted during the year :

### Short-Term Training Programmes

- \* "Instrumentation used in voice analysis", III B.Sc students, M.V. Shetty College, Mangalore - August 2000
- \* "Acoustic phonetics", III B.Sc students, M.V. Shetty College, Mangalore - August 2000
- \* "Acoustic analysis of speech", II B.Sc students, Sri Ramachandra Medical College and Research Institute, Chennai, - November 2000
- \* Training as part of internship programme, MRSC students (two), Holy Cross College, Trichy - January 2001.
- \* Instrumentation in speech science", ENT surgeon from Bangladesh as part of WHO fellowship - March, 2000
- \* "Instrumentation in speech science", III B.Sc students, M.V. Shetty College, Mangalore - February 2001

## Workshops / Seminars Conducted

- \* Workshop on Professional Voice Care, December 2000.

## Ph.D Programme

The following thesis was submitted to the University of Mysore, under the guidance of Dr. N.P. Nataraja :

- \* Ms. N. Sreedevi : Acoustic characteristics of vowels in Kannada.

The following thesis were in progress under the guidance of Dr.S.R.Savithri:

- \* Ms. N. Swapna : Fine-grained auditory discrimination in normal children and children with learning disabilities.
- \* Ms. M. Pushpavathi : Language and speech motor interference in children with stuttering.

## Dissertations

During the year 13 dissertations were completed under the supervision of the departmental staff as follows :

Sl No.	Name of the student	Title of the project
1.	M. Amrithavarshini	Some aspects of intonation in Tamil
2.	Anita Sarah	Voice parameters in developmental speech and language disorders
3.	P.S. Aparna	Comparison of three different softwares for evaluation of voice disorders
4.	Binu Jose	Acoustic and temporal correlates of dysarthric speech
5.	Mini Nandakumar	Intonation in Malayalam - some aspects
6.	B. Prakash	Acoustic measures in the speech of stuttering and normally non-fluent children - a key to differential diagnosis
7.	Prarthana S. Karpur	Identification of speakers physical characteristics based on speech

- |     |                |   |
|-----|----------------|---|
| 8.  | Ruchi Aggarwal | Acoustic analysis of voice with cognitively induced stress  |
| 9.  | C. Sandhya     | Some aspects of intonation in Telugu speakers               |
| 10. | N. Sangeetha   | Acoustic analysis of infant cry                             |
| 11. | Sarah Jacob    | Perception of linguistic stress in brain damaged            |
| 12. | Saritha Kumari | Classification of hoarse voice based on acoustic parameters |
| 13. | Uma Rajan      | Dysfluencies in Malayalam speaking children (3-8 years)     |
- 

The following dissertations were in progress:

Sl No.	Name of the student	Title of the project
1.	Anshula Shivanna Odekar	Perception of rhythm in music
2.	Aarushi Chandra	Relationship between fundamental frequency of voice and adhara shruthi in Carnatic vocal music
3.	Jayaradha S.	Coarticulation in the speech of profound prelingually hearing impaired and normal children
4.	Lakshmi V.	Phonological process characterization of articulatory errors in the speech of adults with spastic cerebral palsy
5.	Prachi Puranik	Syntactic abilities of speech of children with stuttering
6.	Raashida Begum	Electroglottographic findings in the speech of stuttering and non-stuttering children
7.	Sangeetha Mahesh	F0 transformation in the speech of hearing impaired
8.	Vasanthi A.	Acoustic analysis of speech of cleft palate patients
9.	Vijay Kumar G.	Speech motor programming in adults with stuttering: before and after therapy.

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## CLINICAL SERVICES

- \* Diagnostics - Evaluation of 1088 patients with voice, articulation and fluency disorders was done.
- \* Therapeutics - Therapy for 145 patients with voice, articulation and fluency disorders was supervised.

## RESEARCH

### Project Completed

1. Transformation of the Speech of the Hearing Impaired

Funded by Department of science and Technology, Government of India. This project was completed in the previous year. However, the report was submitted this year.

### Projects in Progress

1. Glottal Behavior in Normals and Speech Disorders :

This project was taken up as a part of the research activities of the institute. The objective of the project is to extract electroglottographic patterns in normals and patients with various voice disorders using electroglottograph (EGG) from Dr. Speech ( a speech analysis software). Electroglottograms of 28 normal subjects and 401 patients with voice disorders were extracted.

2. Differential Diagnosis of Stuttering and Normal Non-fluency :

This project was also taken up as a part of research activities of this institute. The objectives of this project is to evolve a protocol for differentially diagnosing stuttering and normal non fluency. This protocol can be used in the institute in future. Data collection is under progress and 75 samples have been collected till date.

3. Acoustic Analysis of Speech :

Two dissertations were carried out in this area.

- a) Co-articulation in the speech of profound pre-lingually hearing impaired and normal children. Here speech of 20 subjects (equal no. of normal and hearing impaired) were analyzed for spectral parameters - F2, F3, terminal



frequency of F2, FTF2, STF2, and temporal measure - TD of F2. The result of the study indicated that co-articulation existed in the speech of hearing impaired but nature of coarticulation varied as the visibility of sound being produced became obscure. Hence, in incorporating the concept of co-articulation would enhance intelligibility of speech in hearing impaired.

- b) F0 transformation in the speech of the hearing impaired aimed at investigating perceptual effect of correcting F0 and duration in the speech of hearing impaired children. Six normal and seven hearing impaired subjects were considered. Samples of hearing impaired were subjected to dynamic time warping to match the normal sentence duration. The result indicated that there was minimal improvement and decrement in intelligibility when both F0 and duration were corrected. The focus of training in hearing impaired should therefore be correcting the segmental aspects of the speech.

#### 4. Developing Software for Diagnosing and Analysis of Speech :

A dissertation titled "electroglottographic findings in the speech of stuttering and non-stuttering children" was carried out. The speech tasks were phonation of /a/, repetition of cvcv syllables and spontaneous speech. The results indicated that the electroglottograms were not significantly different in stuttering and non-stuttering children.

#### 5. Speaker Verification Task

This task was carried out to help the Karnataka Police in verifying the identities of two accused by their voice. Detailed acoustic and perceptual analyses were carried out in the department and the identities of the accused were verified and detailed reports of the results were handed over to the concerned officers.

### OTHERS

#### Public Education Activities

Orientation programme on "Speech and Hearing Impairment" to the PHC doctors was held as part of RCI sponsored National programme on orientation of Medical Officers working in Primary Health Centres to Disability Management.

#### Honors

Dr. S.R. Savithri

- \* Organized the workshop on "Internship programme for B.Sc (Speech and Hearing)" - June 2000

Ms. K. Yashoda

- \* Represented the institute in "International workshop on Technology development in Indian languages" at Indian Statistical Institute, Kolkata, March 2001

Ms. H. Rohini

- \* Organized the "National programme on disability management to PHC doctors" sponsored by the RCI. April 2000
- \* Delivered lecture on "Speech and hearing impairment" to PHC doctors as part of RCI sponsored National programme on disability management. April 2000

### **Workshop / Seminars / Conferences attended**

Ms. K. Yashoda presented the following paper

- \* Exercise physiology: perspective for vocal training at the workshop on Professional voice care held at AIISH - December 2000.

Ms. H. Rohini presented the following paper

- \* Vocal abuse: An introduction at the workshop on Professional Voice Care held at AIISH - December 2000.

Ms. N. Sreedevi presented the following paper

- \* Effects of age on voice in the workshop on Professional Voice Care held at AIISH - December 2000.
- \* Transformation of closure duration in the speech of the hearing impaired children at NSA 2000, Tiruchirapally - November 2000.

### **Professional Training**

Ms. N. Parimala received training on "Secretarial performance efficiency and effectiveness" organized by Institute of Technology and Management systems, New Delhi, at Jaipur - September, 2000.

### **Major Equipment Procured**

1. Printer, WIPRO LQ-1050 DX (Dot matrix)
2. Voice and EGG analysis system

## PUBLICATION

- \* Savithri S. R. (2000) - Acoustics of laughter. Journal of the Acoustic Society of India, 28, (1-4), 233-238
- \* Sreedevi N. & Savithri S.R. (2000) - Transformation of closure duration in the speech of hearing impaired children. Journal of the Acoustic Society of India, 28, (1-4), 239-246.

# CENTRAL FACILITIES

## ACADEMICS

The primary objective of the institute is to train undergraduate, postgraduate and doctoral students in the field of speech and hearing to serve the speech and hearing handicapped in India. 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 faculty to the students. Annual examinations of B.Sc, M.Sc as well as supplementary for B.Sc are conducted as prescribed in the Manual of Conduct of Examinations issued by the University of Mysore.

### Undergraduate and Postgraduate Programmes

#### a) Admission Details

A total of 257 applications for B.Sc and 96 applications for M.Sc were received. Selection committee meetings were held on 3.7.2000 and 1.8.2000 for B.Sc and M.Sc, respectively, and admissions were made according to the rules and regulations of the University of Mysore. Entrance examination was held for admissions to M.Sc (Speech and Hearing). The zone-wise distribution of students admitted is as follows:

	I B.Sc		I M.Sc	
	Male	Female	Male	Female
General merit	-	6	4	12
North Zone	-	5	**	**
East Zone	5	-	**	**
West Zone	1	2	**	**
South Zone	-	3	**	**
SC / ST	4	1	2	2
Foreign	-	3	**	**
Inservice	**	**	1	2
Total	10	20	7	16

\* No candidates    \*\* Not Applicable



**b) Students Enrolled in the Course**

B.Sc						M.Sc			
I year		II year		III year		I year		II year	
M	F	M	F	M	F	M	F	M	F
10	20	08	22	11	18	07	16	06	17

**c) Annual Examination Results**

No. of Passes	I Class	II Class	III Class	Percentage of pass
III B.Sc	18	6	NIL	77
II M.Sc	16	4	NIL	77

**d) Merit Scholarships**

Ten AIISH merit scholarships each were awarded to II and III year B.Sc students and five scholarships were awarded to II M.Sc students. First B.Sc and M.Sc students were paid stipend of Rs.400/- and Rs.650/- respectively during the year.

**e) State-Wise Distribution of Students**

Sl. No.	State	No. of students	
		I B.Sc	I M.Sc
1.	Andhra Pradesh	-	1
2.	Bihar	5	-
3.	Delhi	-	1
4.	Foreign	3	1
5.	Gujarat	-	1
6.	Haryana	-	1
7.	Karnataka	2	5
8.	Kerala	2	4
9.	Madhya Pradesh	2	1
10	Maharashtra	2	1

11	Punjab	1	-
12	Tamil Nadu	9	4
13	Uttar Pradesh	4	3
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	Total	30	23
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## f) Guest Lectures

Faculty from JSS Medical college and outside taught the subjects Paediatrics and Pathology to the B.Sc students and Neurology to the B.Sc and M.Sc students.

## Clinical Practicum

The students were posted to various departments. The number of hours of postings to different departments are as follows:

Departments	B.Sc			M.Sc	
	I	II	III	I	II
-----					
(a) Diagnostics					
Audiology	900	1740	3100	1380	2200
Clinical Psychology	900	1740	3100	1380	1100
Electronics	900	*	*	*	1100
Otorhinolaryngology	*	1740	*	1380	*
Speech Pathology	450	870	3100	690	2200
Speech Sciences	450	870	*	690	*
(b) Therapy **	3600	6960	9300	5520	6600
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\* No postings

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

## Extension Services - Field Work

The extension services involved student postings at the local district hospital Krishnarajendra hospital, Mysore to paediatric, adult and psychiatry wards, physiotherapy, and plastic surgery units. In addition, the students were posted for infant screening, school screening and screening of geriatric population in old age homes.

## Awards

Mr. Prakash, II M.Sc student received Abhilash Award which is awarded to the best student clinician and also Mr.Manohar gold medal for having secured highest marks in speech pathology (M.Sc) at the convocation.

## Doctoral Research

a) No. of candidates who submitted their theses	3
b) No. of candidates working for Ph.D	3
c) No. of candidates registered for Ph.D	1

Sl. No.	Name of the candidate	Title of the thesis
1.	Ms. N. Swapna	Fine-grained auditory discrimination in normal children and children with learning disability.
2.	Ms. M. Pushpavathi	Language and speech motor interference in children with stuttering.
3.	Mr. S. P. Goswami	Comprehension deficits in aphasia

## Short Term Training Programmes Conducted

Twenty six short term training program were conducted.

Sl No.	Topic	Department	Total No.
01	Ear mould making	Audiology	3
02	Hearing aid repairs and servicing	Electronics	8
03	Normal development of speech and language	Sp.Pathology	4
04	Early identification of speech and hearing disorders		1
05	Speech and language development of the hearing impaired child	Sp.Pathology	1
06	Speech and language of mentally Retarded	Sp.Pathology	1
07	Language of the autistic child	Sp.Pathology	1
08	Misarticulation	Sp.Pathology	1

09	ALDs	Audiology	1
10	Auditory training	Audiology	2
11	Acoustic analysis of speech	Sp.Science	1
12	Auditory evoked response	Audiology	1

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### Workshops / Seminars / Symposia Conducted

Sl.	Name of the workshop	Date
1.	Internship	June 2000
2.	Course content for specialized M.Sc	January 2001

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# LIBRARY AND INFORMATION CENTRE

The AIISH Library and Information Centre is the nucleus for information retrieval, storage and dissemination in the speciality of Speech and Hearing field. The center has been providing the following services :

- a) Latest books and periodicals in the speciality areas of speech- language and hearing and their allied areas
- b) bibliographic services
- c) current awareness service
- d) inter library loan service
- e) reference service
- f) reprographic service
- g) audio-visual materials and their screening and
- h) literature search facility on topics of interest to its users.

The Library has been provided with computers and printers. It is being used to increase the efficiency of library services.

AIISH library has been enrolled as a member of the Mysore City Libraries Consortium and Mylibnet.

A new massive Library Information Center measuring about 30000 sq. ft. was constructed in a record time of 7 months. The library and information center, computer center and the academic section will be housed in the four storied building. The institute commissioned a microwave connection from Software Technology Park of India. Subsequently digitalization of the Library and Information Centre was taken up. This would enable the readers (a) to have easy access to and speedy retrieval of library information (b) to search for complete text of journals and books (c) to exchange information with various speech and hearing centers in the country.

## Workshops/Seminars/Conferences Attended

Mr. Mahadeva, Library and Information Assistant attended workshop on Digital Libraries: Managing Convergence, Continuity and Change from 12.3.2001 to 16.3.2001 jointly organized by United States Education Foundation in India New Delhi. Documentation Research and Training Centre Bangalore and Department of Library and Information Science, University of Mysore.

## Annual Statistics

1. No. of volumes as on 31.3.2001	12,252
2. No. of volumes added (from 1.4.2000 to 2001)	204
3. No. of journals subscribed	47
4. No. of books / journals issued and consulted (from 1.4.2000 to 31.3.2001)	78,171
5. No. of outside members	49

## ENGINEERING SECTION

The following activities were carried out from 1.4.2000 to 31.3.2001 :

Sl No	Particulars	Estimated Amount		Expenditure		Remarks
		Rs.	Ps.	Rs.	Ps.	
1	Construction of new library resource center	1,29,46,529.50		1,48,26,375.00		Under progress
2	Construction of stone masonry compound wall					
	a. Phase	19,00,000.00		7,32,000.00		Under progress
	b. Phase II	5,00,000.00		4,92,000.00		- do -
3	Construction of U/G pipe and manhole from ladies hostel to main line	30,000.00		29,261.00		Completed
4	Construction of slab culvert	37,000.00				Completed
5	AR works to administrative block 4 clinic block, director chamber	2,61,160.00		2,06,407.75		Completed
6	Repair works in the Ladies Hostel	50,000.00		48,000.00		Completed
7	Repair works in the Mens Hostel	1,97,660.00		1,97,000.00		Completed
8	Providing kerb stone to the roads	3,16,258.00		3,16,258.00		Completed
9	Repair work in the Departmental Canteen	29,000.00		24,788.00		Completed

## OTHER ACTIVITIES

### STUDENTS OF AIISH

Throughout the year, in addition to attending regular classes and clinical activities, the students participated in speech and hearing camps conducted along with pulse polio programs and in co-ordination with other voluntary organizations. They also participated in a number of extra curricular activities.

#### Extra Curricular Activities

Under the banner of AIISH Students Association, the students participated in a host of academic, cultural, sports and social service activities. Science Day was celebrated with great enthusiasm. The artistic talents of the students found expression in the cultural activities on the occasion of Institute Day as well as major festivals. They also excelled in sports and games. The NSS volunteers carried out activities related to environment, culture, sports, sanitation, blood donation etc. They also collected rs.2,500/- and other materials towards Gujrat Eathquake Relief Fund. The students were actively involved in the two year longitudinal health project launched by NSS for identifying people with speech and hearing problems and mental retardation in 7 villages of Mysore. The students also participated in a number of camps conducted by the institute as well as NSS.

#### Conferences Attended

A number of students participated in the following conferences :

1. Indian Speech and Hearing Association Conference, Mumbai.
2. National Conference on Neuro Diagnostic Audiology, ISH, Bangalore.

#### Papers Presented

The following students presented papers, shown against their names, at the Indian Speech and Hearing Association Conference held at Mumbai, 2001:

- \* Ms. Namita S. Kale : Acoustic analysis of stuttering - pre and post therapy
- \* Ms. Delcy Janet : High Frequency audiometry.
- \* Ms. Namrata : Tic disorder.
- \* Ms. Kaveri Pant : Tone burst auditory brain stem in high frequency hearing loss.



- \* Ms. Komal Arora : SOE's sensitivity in NIHL.
- \* Ms. Harneesh Bhattacharjee : Developmental verbal apraxia - A retrospective analysis
- \* Mr. Sandeep and Vinay S N : Early detection of NIHL using TEOAEs poster
- \* Ms. Aditi Chakravarthi : Parental attitude of autistic children
- \* Ms. Gowri Krishna : Dichotic CV test - revised: oral vs. written response
- \* Mr. Sharad Govil and Aditi Chakravarthi : Noise induced hearing loss scan
- \* Ms. Sreevidhya B A : Worster draught syndrome
- \* Mr. Sharad Govil : Auditory neuropathy
- \* Ms. Neha Rawat : Speech perception strategies in dysarthrics
- \* Ms. Jayashree Shanbal and Sonal Bhandari : Checklist for disorders of written expression.

The following paper was presented at conference on Neuro Diagnostic Audiology held at Bangalore, 2000

- \* Mr. Suresh B. : Effect of magnitude of deviance on MMN for duration.

## Awards

The following students received awards for their papers in different categories at ISHACON, 2001, Mumbai :

- \* Ms. Kaveri Pant : Tonse burit ABR in high frequency HL, best paper in Audiology
- \* Ms. Neha Rawat : Speech perception strategies in dysarthrics, best paper in Speech Pathology

The following students received awards as mentioned against their names :

- \* Mr. B. Prakash - Abhilasha Award - for being the best student clinician of AIISH.
- \* Msr. B. Prakash - Aarti Venkatraman Gold Medal - University of Mysore for obtaining highest marks in M.Sc.

- \* Mr. B. Prakash - Manohar Gold Medal - University of Mysore for obtaining highest marks in Speech Pathology
- \* Ms. Namratha Mukhate participated in Kaun Banega Krorapati and received an amount of Rs.10,000/-.

# OFFICIAL LANGUAGE IMPLEMENTATION

All the programmes scheduled for the year 2000-01 were carried out.

## Official Language Implementation Committee Meetings

- \* Promoters meeting of official language implementation (OLI) - held once in a month.
- \* OLI Committee meeting - held once in a quarter.
- \* Town Official Language Implementation Committee meetings (TOLIC)- the institute actively participated in the TOLIC meeting in Dec. 2000.

## Training in Hindi / Hindi Typing and Incentive Schemes

Implementation of schemes of incentives for successful completion of Hindi / Hindi typing examination and implementation of official language continued.

The following is the number of staff sponsored / appeared for Hindi examinations in May and November 1999.

Exam	May 2000		Nov. 2000	
	appeared	passed	appeared	passed
Prabodh	4	-	3	-
Praveen	8	2	2	-
Pragya	1	-	-	-

## Official Language Correspondence

The provisions of Clause 3(3) of Official Language Act, 1963 were complied with to the best possible extent. Circulars, general office memos, forms, etc. were issued in bilingual form. Annual report, audited statement of accounts, half yearly report, performance budget, word a day in Hindi, slogans etc. were all rendered in Hindi along with English.

## Hindi Competitions

- \* Conducted 4 different competitions in Hindi during Hindi Week from 8.5.2000 to 14.9.2000 and the winners were awarded cash prizes.

## **Hindi Workshop / Conference**

Smt. H. Uma Saraswathi, Hindi Translator and Sri. S.P. Goswamy, Clinical Assistant were deputed to attend the Hindi seminar held at CIIL, Mysore on 3rd and 4th Aug. 2000.

Across the table workshop was organized at the institute on 28.3.2001.

The Hindi Translator was deputed to deliver guest lecture at the office of the Telecom, Mysore on 26.3.2001

## **Hindi Books / Magazines**

1. Library of Hindi books was kept open for use by staff and students throughout the year.

## **Use of Hindi on Computer**

Hindi Prakashak and Leap Office softwares were used in various computers.

A total of 185 Hindi speaking patients were evaluated for speech, language disorders, out of which 150 were given speech therapy.



## APPENDIX - 1 (I)

### CLINICAL SERVICES

#### No. of Cases Registered at the Institute

1.	New cases	12,301
2.	Repeat cases	14,547
3.	Total No. of cases	26,848
4.	No. of working days	246

#### Age-wise Statistics of New Patients

Age Group	Male	Female	Total
00-05	1150	850	2000
05-10	980	650	1630
10-20	1350	1200	2550
20-40	2000	1300	3300
40-60	1045	650	1695
60-80	601	245	846
80+	150	130	280

#### State-Wise Distribution of Cases Registered During the Year

Sl. No.	State	No. of cases seen
1.	Karnataka	9100
2.	Kerala	2003
3.	Tamil Nadu	620
4.	Andhra Pradesh	505
5.	Uttar Pradesh	25
6.	Maharashtra	23
7.	Madhya Pradesh	12
8.	Others	13
	Total	12,309

## **Hindi Workshop / Conference**

Smt. H. Uma Saraswathi, Hindi Translator and Sri. S.P. Goswamy, Clinical Assistant were deputed to attend the Hindi seminar held at CIIL, Mysore on 3rd and 4th Aug. 2000.

Across the table workshop was organized at the institute on 28.3.2001.

The Hindi Translator was deputed to deliver guest lecture at the office of the Telecom, Mysore on 26.3.2001

## **Hindi Books / Magazines**

1. Library of Hindi books was kept open for use by staff and students throughout the year.

## **Use of Hindi on Computer**

Hindi Prakashak and Leap Office softwares were used in various computers.

A total of 185 Hindi speaking patients were evaluated for speech, language disorders, out of which 150 were given speech therapy.

## APPENDIX - 1 (I)

### CLINICAL SERVICES

#### No. of Cases Registered at the Institute

1.	New cases	12,301
2.	Repeat cases	14,547
3.	Total No. of cases	26,848
4.	No. of working days	246

#### Age-wise Statistics of New Patients

Age Group	Male	Female	Total
00-05	1150	850	2000
05-10	980	650	1630
10-20	1350	1200	2550
20-40	2000	1300	3300
40-60	1045	650	1695
60-80	601	245	846
80+	150	130	280

#### State-Wise Distribution of Cases Registered During the Year

Sl. No.	State	No. of cases seen
1.	Karnataka	9100
2.	Kerala	2003
3.	Tamil Nadu	620
4.	Andhra Pradesh	505
5.	Uttar Pradesh	25
6.	Maharashtra	23
7.	Madhya Pradesh	12
8.	Others	13
	Total	12,309

## APPENDIX - 1 (ii)

### HEARING EVALUATION

No. of patients seen for hearing evaluation	19903
No. of patients sent for hearing evaluation at AIISH	8320
No. of patients seen for hearing evaluation /screening At extension centers	11583
No. of cases with -	
a) normal hearing	3193
b) conductive hearing loss	2987
c) mixed hearing loss	3373
d) sensorineural hearing loss	5183
No. of certificates issued	
a) financial aid	432
b) admission to normal school	38
c) physically handicapped	12
d) tax exemption	26
e) others	153
No. of audiogram copies issued	1947
No. of patients seen for hearing aid trial	3659
No. of patients counselled	2173
No. of cases recommended for	
a) auditory training	1322
b) speech reading	1103
No. of hearing aids issued under ADIP scheme	2509
a) issued free of cost	2444
b) issued at 50% of cost	04
No. of hearing aids issued on exchange	250
Hearing aids received for repairs	256
No. of hearing aids certified	2496



## APPENDIX - 1 (iii)

### EARMOLD STATISTICS

No. of patients seen	2231
No. of earmolds completed	4853
No. of earmolds issued on 50% payment	2999
on 100% payment	782
No. of special earmolds made	39
No. of shell earmolds made	398

# APPENDIX - 1 (iv)

## AGE-WISE STATISTICS OF PATIENTS

### HEARING EVALUATION, HEARING AID TRIAL AND EARMOLD SECTIONS

Age Group	Hearing Evaluation		Hearing Aid Trial Earmolds		HAT		counseling	
	M	F	M	F	M	F	M	F
0-1	37	44	40	35	28	18	8	7
2-5	530	369	285	209	220	146	254	179
6-10	530	412	270	195	166	115	206	115
11-15	393	261	185	120	129	66	138	74
16-20	378	224	131	69	71	33	80	41
21-25	354	203	102	41	47	14	59	25
26-30	350	184	68	35	29	14	49	25
31-35	277	160	52	35	33	21	28	27
36-40	312	194	73	37	39	25	53	16
41-45	262	133	73	40	33	22	41	20
46-50	292	178	102	51	62	35	70	34
51-55	263	131	122	55	78	25	53	22
56-60	274	166	155	70	125	52	91	32
61-65	250	140	163	82	98	41	74	41
66-70	256	123	178	69	110	38	80	29
71-75	230	72	162	61	111	41	64	27
76-80	158	41	134	36	72	17	53	13
81-85	74	21	65	21	33	9	35	13
86-90	28	11	21	7	7	4	-	-
91-95	5	-	5	-	2	1	-	-
96-100	-	-	4	1	1	-	-	-
	5253	3067	2390	1269	1494	737	1436	737
Total	8320		3659		2231		2173	

# APPENDIX - 1 (v)

## SPEECH AND LANGUAGE DISORDERS AGEWISE DISTRIBUTION

Age in years	Male	Female	Total
00-01	16	28	44
01-05	752	468	1220
05-10	553	341	894
10-15	303	146	449
15-20	170	52	222
20-25	118	26	144
25-30	69	22	91
30-35	44	18	62
35-40	17	13	30
40-45	36	23	59
45-50	31	10	41
50-55	14	06	20
55-60	19	5	24
60-65	17	4	21
65-75	13	6	19
75-85	5	1	6
85-95	3	1	4
>95	-	-	-
Total			3350

## APPENDIX - 1 (vi)

### DISTRIBUTION OF CASES WITH SPEECH AND LANGUAGE DISORDERS

	Case History	Speech Evaluation	Speech Therapy
I. Language disorders			
1. Delayed speech and language (DSL)	385	383	257
2. DSL with M.R.	489	484	259
3. DSL with C.P.	181	179	98
4. DSL with autism	28	28	18
5. Aphasia	40	40	31
6. Speech regression/ Multiple disorders	21	21	9
7. Learning disability	58	58	39
II. DSL with hearing loss	1253	1227	390
III. Rhythm disorders			
1. Stuttering	317	311	259
2. Cluttering - - -			
3. Normal nonfluency	18	18	16
IV. Articulatory Disorders			
1. Misarticulation	193	192	125
2. Cleft Palate	41	43	18
3. Dysarthria	41	41	19
V. Voice Disorders			
1. Dysphonia	315	317	164
2. Laryngectomy	4	4	3
Total	3389	3346	1705



## APPENDIX - 2

### COMMITTEES OF THE INSTITUTE

#### Executive Committee

1. Dr. C.P. Thakur  
Hon'ble Minister for  
Health and Family Welfare  
Government of India  
Nirman Bhavan  
NEW DELHI - 110 011  
Chairman
2. Dr. A.B. Malaka Reddy  
Hon'ble Minister for  
Health and Family Welfare  
Government of Karnataka  
Vidhana Soudha  
BANGALORE - 560 001  
Vice-Chairman
3. Sri Javid Chawdhury, I.A.S.  
Secretary to the  
Government of India  
Ministry of Health and Family Welfare  
Nirman Bhavan  
NEW DELHI - 110 011  
Member
4. Dr. S.P. Agarwal  
Director General of Health Services  
Government of India  
Nirman Bhavan  
NEW DELHI - 110 011  
Member
5. Sri J.V.R. Prasada Rao  
Additional Secretary (Health)  
Ministry of Health and Family Welfare  
Government of India  
Nirman Bhavan  
NEW DELHI - 110 011  
Member

6. Sri Vijay Singh, I.A.S.  
Joint Secretary (FA)  
Ministry of Health and Family Welfare  
Government of India  
Nirman Bhavan  
NEW DELHI - 110 011  
Member
7. Smt. Gauri Chatterjee, I.A.S.  
Joint Secretary to  
Government of India  
Ministry of Social Justice & Empowerment  
Shastri Bhavan  
NEW DELHI - 110 001  
Member
8. Smt. Bhavani Thyagarajan, I.A.S.  
Joint Secretary  
Government of India  
Ministry of Health and Family Welfare  
Shastri Bhavan  
NEW DELHI - 110 001  
Member
9. Sri A. K.M.Nayak, I.A.S.  
Secretary to the  
Government of Karnataka  
Department of Health and Family Welfare  
Multistoreyed Building  
BANGALORE - 560 001  
Member
10. Dr. Seethalakshmi  
Director of Medical Education  
Government of Karnataka  
Ananda Rao Circle  
BANGALORE - 560 009  
Member
11. Dr. S.N. Hegde  
Vice-Chancellor  
University of Mysore  
Crawford Hall  
MYSORE - 570 005  
Member

12-14 Three nominees of Chairman  
Executive Council

Members

Dr. S. Gopalakrishnan  
Professor and Head  
Department of ENT  
JIPMER  
PONDICHERRY - 605 006

Sri I. Kandaswamy  
Professor of Radiology  
Madras Medical College and Research Institute  
CHENNAI

Dr. Ravi Ramalingam  
Consulting ENT, Head and Neck Surgeon  
Joint Managing Director  
K.K.R. Hospital and Research Institute  
827, Poonamalle High Road  
Kilpauk  
CHENNAI - 600 010

15. Nominee of the Director, AIISH, Mysore

Member

16. Dr. M. Jayaram  
Director  
All India Institute of Speech and Hearing  
MYSORE - 570 006

Member Secretary

## Finance Committee

1. Sri J.V.R. Prasada Rao, I.A.S.  
Additional Secretary (Health)  
Ministry of Health and Family Welfare  
Government of India  
Nirman Bhavan  
NEW DELHI - 110 011  
Chairman
2. Dr. S.P. Agarwal  
or his nominee  
Director General of Health Services  
Government of India  
Nirman Bhavan  
NEW DELHI - 110 011  
Member
3. Sri Vijay Singh, I.A.S.  
Joint Secretary (FA)  
Ministry of Health and Family Welfare  
Government of India  
Nirman Bhavan  
NEW DELHI - 110 011  
Member
4. Dr. Gouri Devi  
Director  
National Institute of Mental Health  
and Neuro Sciences  
BANGALORE - 560 029  
Member
5. Dr. M. Jayaram  
Director  
All India Institute of Speech and Hearing  
MYSORE - 570 006  
Member Secretary



## Academic Committee

1. Prof. B.S. Ramakrishna  
Former Vice-Chancellor  
68, 2nd Main, 2nd Cross  
Gangenahalli  
BANGALORE - 560 068  
Chairman
2. Dr. A.S. Bais  
Deputy Director General (M)  
Directorate General of Health Services  
Government of India  
Nirman Bhavan  
NEW DELHI - 110 011  
Member
3. Dr. Seethalakshmi  
Director of Medical Education  
Government of Karnataka  
BANGALORE - 560 009  
Member
4. Nominee of Vice-Chancellor  
University of Mysore  
MYSORE - 570 005  
Member
- Prof. Ramakrishne Gowda  
Department of Physics  
University of Mysore  
Manasagangothri  
MYSORE - 570 006
- 5-7. Three heads of departments of AIISH  
Mysore  
Members
8. Dr. T.S. Sidhu  
HOD - ENT  
Ram Manohar Lohia Hospital  
NEW DELHI  
Member
9. Dr. P.V. Rajendrakumar  
Institute of Speech and Hearing  
Government General Hospital  
CHENNAI - 600 010  
Member

- |     |   |                  |
|-----|---|------------------|
| 10. | Dr. Shashidhar Prasad<br>Professor and Head<br>Department of Physics<br>University of Mysore<br>Manasagangothri<br>MYSORE - 570 006 | Member           |
| 11. | Prof. L.M. Patnaik<br>Convenor,<br>Microprocessor Application Lab.,<br>Indian Institute of Science<br>BANGALORE - 560 012           | Member           |
| 12. | Dr. M. Jayaram<br>Director<br>All India Institute of Speech and Hearing<br>MYSORE - 570 006   | Member-Secretary |

## APPENDIX - 3

### FACULTY AND OTHER STAFF

#### Director

1. Dr. M.Jayaram

Director

#### Department of Audiology

1. Dr. Asha Yathiraj
2. Dr. K. Rajalakshmi
3. Mr. Animesh Burman
4. Ms. C.S. Vanaja
5. Ms. P. Manjula

Reader  
Lecturer  
Lecturer  
Lecturer  
Lecturer

#### Department of Clinical Psychology

1. Dr. P. Kalaiah
2. Dr. S. Venkatesan
3. Dr. G. Jayarama

Professor and HOD  
Reader  
Assistant Lecturer

#### Department of Electronics

1. Mr. M.K. Seetharam

Electronics Engr. Gr. II & HOD

#### Department of ENT

1. Dr. M.V. Susheela
2. Dr. K. Rathna Sabhapathy
3. Dr. H. Sundara Raju

Professor and HOD  
Reader  
Lecturer

#### Department of Speech Pathology

1. Dr. K.C. Shyamala
2. Dr. Basanti Devi
3. Dr. R. Manjula
4. Ms. M. Pushpavathi
5. Dr. K.S. Prema

Reader in Language Pathology  
Lecturer in Linguistics  
Clinical Lecturer  
Lecturer  
Lecturer

## **Department of Speech Sciences**

1. Dr. S.R. Savithri
2. Ms. K. Yeshoda
3. Ms. H. Rohini

Reader  
Lecturer  
Lecturer

## **General Administration**

1. Mr. P N Gundu Rao
2. Mr. K. Purushothama
3. Mr. A.V. Koti

Asst. Admn. Officer  
Office Superintendent  
Accounts Officer

## **Library and Information Centre**

1. Mr. M. Mahadeva

Library and Information Asst.

## **Publicity & Information**

1. Mr. K. Mohammed Fazlulla

Publicity and Information Officer



## APPENDIX - 4

### PERSONNEL

#### Appointments

- |   |                         |             |
|---|-------------------------|-------------|
| 1. Dr. M. Jayaram<br>(on deputation)    | Director                | 20.4.2000AN |
| 2. Sri P N Gundu Rao<br>(on deputation) | Asst. Admnv.<br>Officer | 26.12.2000  |

#### Retirement

- |                                       |                                      |             |
|---------------------------------------|--------------------------------------|-------------|
| 1. Dr. S Nikam                        | Director                             | 20.4.2000FN |
| 2. Sri K Mohd Fazlulla<br>(Voluntary) | Publicity and<br>Information Officer | 1.3.2001 FN |

#### Resignation

- |                      |                      |            |
|----------------------|----------------------|------------|
| 1. Mr. H S Satish    | Electronics Engineer | 5.7.2001   |
| 2. Sri Antony Thomas | Asst. Lecturer       | 22.08.2000 |

**APPENDIX - 5**

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

**AUDITED STATEMENTS OF ACCOUNTS  
FOR  
THE YEAR ENDED 31st MARCH 2001**

Edited and scrutinized by  
Prepared by  
Printed by

Sri Vijaya Narasimha S.L.  
Sri Prasad A.N.  
Ms. Rajalakshmi R.

P.Srinivasa, B.Com., L.L.B., F.C.A.  
P.S. & Co.,  
Chartered Accountants  
No.190/1, I Floor  
Dewan's Road  
Mysore 570 024.

(O) 425122  
(R) 441283  
Fax: 544918  
Email: psandco@rediffmail.com

### AUDIT CERTIFICATE

We have audited the attached Balance Sheet of the ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE, as at 31st March 2001 and also the annexed Income and Expenditure Account for the year ended on that date subject to our Audit Report and Notes forming part of accounts separately enclosed, we report that :

1. We have obtained all the information and explanation, which to the best of our knowledge and belief were necessary for the purpose of audit.
2. The Balance Sheet and the Income and Expenditure Account dealt in by the report are in agreement with the books of account.
3. In our opinion the accounts are maintained in conformity with the requirements of Societies Act by the Institute so far as it appears from our examination of those books.
4. In our opinion and to the best of our information and according to the explanations given to us, the statement of accounts gives a true and fair view:
  - i) in the case of Balance Sheet, of the state of affairs of the institute as on 31st March, and
  - ii) in the case of Income and Expenditure Account of the Excess of Income over Expenditure for the year ended on that date.

Place: Mysore  
Date: 16.10.2001.  
Sd/-

For P.S., and Co.,  
Chartered Accountants

(P. Srinivasa)  
Proprietor.

**BALANCE SHEET AS AT 31ST MARCH 2001**

(Amount in Rs.)

Liabilities	Current Year	Previous Year
Capital Fund:		
Balance as on 1.4.2000	12,50,39,084.08	
Less assets written off during the year	5,18,522.04	
	12,45,20,562.04	
Add cost of gift equipment	20,52,513.18	
Add amount transferred from Income and Expenditure account	3,25,10,508.17	
	15,90,83,583.39	
Less : Transfers	15,67,065.00	15,75,16,518.39
Funds (Schedule-A)	1,66,07,646.99	1,33,55,209.52
Deposits and advances of outside parties (Schedule-B)	22,26,193.50	6,37,777.00
Remittances account (Schedule-C)	57,567.01	85,891.97
Other items (Schedule-D)	40,94,716.00	16,98,480.00
Sponsored programmes and other schemes (Schedule-E)	39,10,178.91	23,24,935.03
ADIP Scheme (GOI, Ministry of Social Justice & Empowerment) (Schedule-J)	11,12,039.88	31,25,529.38
Ministry of Welfare scheme for Better Moulds for More People	7,008.77	7,008.77
Due to ADIP Scheme	14,330.50	0.00
<b>Total</b>	<b>18,55,46,199.95</b>	<b>14,62,73,915.75</b>

sd/-  
Accounts Officer

sd/-  
AAO (IAC)

sd/-  
Director



**All India Institute of Speech and Hearing, Mysore 570 006**

**BALANCE SHEET AS AT 31ST MARCH 2001**

(Amount in Rs.)

Assets	Current Year	Previous Year
Fixed and other assets (Schedule-F)	11,55,61,500.12	8,09,60,864.08
Advances to staff (Schedule-G)	11,60,964.00	9,53,492.00
Sundry debtors for deposits and advances (Schedule-H)	4,41,40,397.06	2,16,48,179.99
Investments (Schedule-I)	1,14,18,087.00	1,02,94,594.00
Cash and Bank Balances		
(a) Cash on Hand	3,21,770.31	1,11,09,915.84
(b) Cash at Bank - SB A/c No.176 with BOB	1,07,88,145.53	1,16,74,391.75
Income accrued due :		
(i) Interest accrued on PF a/c with MGPO	42,533.05	
(ii) HRA arrears recoverable from staff	763.00	
(iii) Grant-in-aid (Plan) due	10,00,000.00	10,43,296.05
GOI. Min. of Social Justice & Empowerment (Schedule-J)	11,12,039.88	1,76,16,864.55
<b>Total I</b>	<b>8,55,46,199.95</b>	<b>14,62,73,915.75</b>

sd/-  
Accounts Officer

sd/-  
AAO (IAC)

sd/-  
Director

**All India Institute of Speech and Hearing, Mysore 570 006**  
**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2001**

(Amount in Rs.)

Expenditure	Non-Plan	Plan	Current Year	Previous year
To,				
Salaries and allowances (Annexure-2)	1,53,81,217.95	0.00	1,53,81,217.95	1,48,61,680.00
Merit scholarship/stipend : Actuals	1,80,284.00	0.00	1,80,284.00	1,61,136.00
Add outstanding 2000-2001	1,15,678.00	0.00	1,15,678.00	0.00
Travelling allowance : Actuals	2,38,257.00	2,42,747.00	4,81,004.00	1,67,100.00
Add out-standing 2000-01	0.00	20,815.00	20,815.00	0.00
Contribution to LS/PC	74,522.00	0.00	74,522.00	0.00
Institute's contribution to funds:				
(a) Contributory Provident Fund	6,577.00	0.00	6,577.00	6,404.00
(b) AIISH Pension Fund	7,65,300.00	0.00	7,65,300.00	7,49,239.00
Interest on Funds: (a) Contributory Provident Fund	13,242.00	0.00	13,242.00	11,858.00
(b) General Provident Fund	7,04,494.00	0.00	7,04,494.00	6,55,746.00
Professional Services : Actuals	76,300.00	68,250.00	1,44,550.00	57,300.00
Add outstanding 2000-01	4,100.00	0.00	4,100.00	0.00
Other charges (Annexure-3) 18,19,791.90	19,40,155.65	37,59,947.55	53,06,469.58	
Apprenticeship 0.00	0.00	0.00	32,175.00	
Project on Prevention of Deafness and				
Hearing-impairment : Actuals	0.00	2,84,656.18	2,84,656.18	0.00
Add Out-standing 2000-01	0.00	1,42,370.00	1,42,370.00	0.00
<b>Total</b>	<b>1,93,79,763.85</b>	<b>26,98,993.83</b>	<b>2,20,78,757.68</b>	<b>2,20,09,107.58</b>

sd/-  
Accounts Officer

sd/-  
AAO (IAC)

sd/-  
Director

All India Institute of Speech and Hearing, Mysore 570 006

**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2001**

(Amount in Rs.)

Income	Non-Plan	Plan	Current Year	Previous year
By,				
Grant-in-aid from GoI, Min. of H & FW - received during the year	2,31,00,000.00	4,70,50,000.00	7,01,50,000.00	3,85,25,000.00
Less grants sanctioned for the year 1999-2000 but received during 2000-01	45,00,000.00	1,30,50,000.00	1,75,50,000.00	77,75,000.00
	1,86,00,000.00	3,40,00,000.00	5,26,00,000.00	3,07,50,000.00
Add grants sanctioned for the year 2000-01 but not received as on 31.3.2001	0.00	10,00,000.00	10,00,000.00	1,75,50,000.00
Total	1,86,00,000.00	3,50,00,000.00	5,36,00,000.00	4,83,00,000.00
Less : Amount transferred to Balance sheet	2,09,502.00	3,23,01,006.17	3,25,10,508.17	2,80,58,094.20
Amount of revenue expenditure out of grant	1,83,90,498.00	26,98,993.83	2,10,89,491.83	2,02,41,905.80
Other income : Internal revenues (Annexure-1)	9,46,732.80	0.00	9,46,732.80	16,70,968.23
(+) Income accrued due (interest on SB A/c. 839050-MGPO)	42,533.05	0.00	42,533.05	66,101.55
LS/PC (deputationist)	0.00	0.00	0.00	30,132.00
<b>Total</b>	<b>1,93,79,763.85</b>	<b>26,98,993.83</b>	<b>2,20,78,757.68</b>	<b>2,20,09,107.58</b>

sd/-  
Accounts Officer

sd/-  
AAO (IAC)

sd/-  
Director

**RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2001**

(Amount in Rs.)

Receipts		Current Year	Previous year
To,			
Opening Balance : Cash on hand	12,519.31		
Cash at Bank BOB SB A/c. No.176	1,15,71,657.44		
Add: Amount reflected under ADIP Scheme	90,215.00		
1,16,74,391.75			
Less: Amount reflected under scheme on BM Project	7,008.77	1,16,67,382.98	29,17,479.68
(1) Grant-in-aid from Ministry of Health & Family Welfare (i) Non-Plan	2,31,00,000.00		1,94,50,000.00
(ii) Plan	4,70,50,000.00	7,01,50,000.00	1,90,75,000.00
(2) Other receipts :			
(a) Internal revenues (Annexure I)		9,46,732.80	16,70,968.23
(b) Cost of material/works recovered and transferred		0.00	0.00
(c) Capital Fund: (i) Gift equipment		20,52,513.18	0.00
(ii) Disposal/Auction sale assets written off (Schedule-F)		94,77,571.66	16,769.84
(3) Deposits and advance of outside parties (Schedule-B)		19,77,727.50	3,34,143.00
(4) Advances to staff (Schedule-G)		4,01,126.00	7,85,030.00
(5) Deposits/Advances to contractors and suppliers (Schedule-H)		7,83,04,140.82	5,68,27,712.75
(6) Investments (Schedule-I)		21,33,666.00	49,455.00
(7) Funds (Schedule-A)		84,63,854.47	79,69,859.45
(8) Sponsored programmes and other schemes (Schedule-E)		31,04,555.90	31,99,467.74
(9) Remittance and other Accounts (Annexure-4)		33,93,501.44	17,76,663.16
(10) Contribution to funds account		0.00	30,132.00
<b>Total</b>		<b>19,20,72,772.75</b>	<b>11,41,02,680.85</b>

sd/-  
Accounts Officer

sd/-  
AAO (IAC)

sd/-  
Director



**RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2001**

(Amount in Rs.)

Payments	Non-Plan	Plan	Current Year	Previous year
By				
A. RECURRING EXPENDITURE:				
1. Salaries and allowances (Annexure-2)	1,41,26,572.95	0.00	1,41,26,572.95	1,36,60,697.00
2. Travelling allowance	2,38,257.00	2,42,747.00	4,81,004.00	1,67,100.00
3. Contribution to funds i) LS and PC deputationist	74,522.00	0.00	74,522.00	0.00
ii) GPF interest	7,04,494.00	0.00	7,04,494.00	6,55,746.00
iii) CPF interest	13,242.00	0.00	13,242.00	11,858.00
v) Employers' contribution to CPF	6,577.00	0.00	6,577.00	6,404.00
vi) AIISH Pension Fund	7,65,300.00	0.00	7,65,300.00	7,49,239.00
4. Merit scholarship/stipend	1,80,284.00	0.00	1,80,284.00	1,61,136.00
5. Other charges (Annexure-3)	17,97,448.90	18,21,009.65	36,18,458.55	52,21,273.58
6. Apprenticeship	0.00	0.00	0.00	32,175.00
7. Professional services	76,300.00	68,250.00	1,44,550.00	57,300.00
8. Cement account	0.00	0.00	0.00	500.00
9. Proj. on Prevention of Deafness & Hearing-Impairment.	0.00	2,84,656.18	2,84,656.18	0.00
B. NON-RECURRING EXPENDITURE				
1. Fixed and other assets/gift equipment (Schedule-F)	20,53,183.18	3,96,09,405.52	4,16,62,588.70	73,72,580.83
2. Deposits and advances of outside parties (Schedule-B)	0.00	0.00	3,89,311.00	1,55,802.00
3. Advance to staff (Schedule-G)	0.00	0.00	6,08,598.00	5,07,336.00
4. Deposits/Advance to contractors/suppliers (Schedule-H)	0.00	0.00	10,07,96,357.89	5,95,22,153.12
5. Investment (Schedule-I)	0.00	0.00	32,57,159.00	25,80,900.00
6. Funds (Schedule-A)	0.00	0.00	52,11,417.00	46,37,139.00

(Amount in Rs.)				
Payments	Non-Plan	Plan	Current Year	Previous year
7. Sponsored programmes and other scheme(Schedule-E)	0.00	0.00	15,19,312.02	22,25,425.50
8. Remittances and other accounts (Annexure-4)			33,55,724.85	17,14,467.08
9. Out-standing expenses (Schedule-D)			16,98,480.00	14,59,836.92
10. Assets written-off (Schedule-F)			5,18,522.04	17,734.84
11. Capital fund account			15,67,065.00	15,18,494.00
Closing balance : Cash on hand	3,21,770.31			
Cash at Bank : BOB SB A/c.176	1,07,88,145.53			
Total	1,11,09,915.84			
Less: Amount due to :- (1) BM project	7,008.77			
(2) ADIP Scheme	14,330.50		1,10,88,576.57	1,16,67,382.98
<b>Total</b>			<b>19,20,72,772.75</b>	<b>11,41,02,680.85</b>

sd/-  
Accounts Officer

sd/-  
AAO (IAC)

sd/-  
Director

All India Institute of Speech and Hearing, Mysore 570 006

**DETAILS OF INTERNAL REVENUES 2000-01**

Annexure-1		Amount in Rs.	
S.No.	Head of Account	Debit/payments	Credit/receipts
1.	Licence Fee	0.00	74,036.00
2.	Interest on advances to staff	0.00	8,288.00
3.	Interest on investment of GPF/CPF	0.00	7,45,164.00
4.	Interest on short-term deposits	8,027.00	19,27,874.23
5.	Interest on SB Accounts	0.00	95,400.00
6.	Application Fee	0.00	41,150.00
7.	Admission fee - Hostel	0.00	1,960.00
8.	Technical consultancy services	150.00	22,850.00
9.	Vehicle hire charges	0.00	6,067.00
10.	E-Mail charges	0.00	10,870.00
11.	Rent (Hostel)	0.00	45,912.00
12.	Rent (Guest House)	6,173.00	1,35,700.00
13.	Rent (Dharmashala)	7,834.00	14,135.00
14.	Sale of Journals/syllabus	0.00	5,900.00
15.	Miscellaneous income	6,695.00	85,689.04
16.	Depreciation charges	4,448.00	5,140.00
17.	Registration fee	0.00	65,055.00
18.	Certificate fee (cases)	0.00	1,02,400.00
19.	Certificate fee (students)	0.00	31,475.00
20.	Library membership/card fee	0.00	16,400.00
21.	Orientation/short-term course fee	0.00	26,886.00
22.	Tender form fee	0.00	78,614.00
23.	Disposal/auction proceeds of assets written off	6,013.00	1,21,194.00

		Amount in Rs.	
S.No.	Head of Account	Debit/payments	Credit/receipts
24.	Therapy charges	0.00	67,650.00
25.	Infrastructure assistance - Rehabilitation Council of India/camp	4,775.00	13,000.00
26.	Infrastructure assistance - ADIP Scheme	0.00	61,200.00
27.	Infrastructure assistant - World Health Organization	0.00	3,300.00
28.	Sanitary charges - students	0.00	1,310.00
29.	Admission fee (institute)	30,927.00	33,359.00
<b>Total</b>		<b>75,042.00</b>	<b>38,47,978.27</b>
<b>Net receipt</b>			<b>37,72,936.27</b>
<b>Amount transferred to AIISH Pension Fund</b>			<b>(-)28,26,203.47</b>
			<b>9,46,732.80</b>

sd/-  
Accounts Officer

sd/-  
AAO (IAC)

sd/-  
Director



**All India Institute of Speech and Hearing, Mysore 570 006**  
**DETAILS OF SALARIES AND ALLOWANCES - 2000-2001**

Annexure-2		Amount in Rs.		
Sl.No.	Particulars	Non-Plan	Plan	Total
1.	Salaries - Officers	58,42,145.50	0.00	58,42,145.50
2.	Salaries - Establishment	92,66,165.50	0.00	92,66,165.50
3.	Overtime allowance	3,419.00	0.00	3,419.00
4.	Children education allowance	14,060.00	0.00	14,060.00
5.	Medical charges	1,74,417.95	0.00	1,74,417.95
6.	Leave travel concession	27,348.00	0.00	27,348.00
	Total	1,53,27,555.95	0.00	1,53,27,555.95
	(-) Outstanding 2000-2001	12,00,983.00	0.00	12,00,983.00
		1,41,26,572.95	0.00	1,41,26,572.95
	(+) Outstanding 2001-2002	12,54,645.00	0.00	12,54,645.00
	<b>Total</b>	<b>1,53,81,217.95</b>	<b>0.00</b>	<b>1,53,81,217.95</b>

sd/-  
Accounts Officer

sd/-  
AAO (IAC)

sd/-  
Director

## DETAILS OF OTHER CHARGES - 2000-2001

Annexure-3		Amount in Rs.		
Sl.No.	Particulars	Non-Plan	Plan	Total
1.	Water charges	(-)1,98,642.55	0.00	(-)1,98,642.55
2.	Telephone and Trunk call charges	45,824.56	86,230.00	1,32,054.56
3.	Consumables - Earmoulds	(-)96,288.00	0.00	(-)96,288.00
4.	Consumables - Spares	8,297.40	0.00	8,297.40
5.	Consumables - General	1,35,809.98	1,48,876.00	2,84,685.98
6.	Wages	5,87,437.00	4,84,401.50	10,71,838.50
7.	Entertainment	3,945.00	0.00	3,945.00
8.	Contingencies	91,223.25	0.00	91,223.25
9.	Audit fees	1,457.00	2,743.00	4,200.00
10.	Advertisement	1,11,396.00	49,346.00	1,60,742.00
11.	Anniversary expenses	17,938.50	0.00	17,938.50
12.	Electricity charges	2,07,005.80	3,89,528.00	5,96,533.80
13.	Printing and Stationery	41,375.50	77,855.00	1,19,230.50
14.	Postage and telegrams	21,907.00	41,224.00	63,131.00
15.	Subscription to Newspapers	4,573.00	0.00	4,573.00
16.	Subsidies to Departmental Canteen	2,58,360.00	0.00	2,58,360.00
17.	Liveries and linen	17,889.95	0.00	17,889.95
18.	Maintenance of vehicle	43,140.87	81,178.00	1,24,318.87
19.	Maintenance of garden	5,865.00	0.00	5,865.00
20.	Maintenance of building - civil	2,87,772.00	0.00	2,87,772.00
21.	Maintenance of building - electrical	5,223.00	0.00	5,223.00

Annexure-3		Amount in Rs.		
Sl.No.	Particulars	Non-Plan	Plan	Total
22.	Maintenance of TE/OE	40,186.04	81,446.00	1,21,632.04
23.	Rent, rates and taxes	30,786.00	0.00	30,786.00
24.	Legal charge	8,500.00	0.00	8,500.00
25.	Maintenance of furniture	12,594.75	0.00	12,594.75
26.	Grant-in-aid to AIISH Students' Association	2,000.00	0.00	2,000.00
27.	Seminar and Symposia	0.00	62,890.10	62,890.10
28.	Spares and accessories	0.00	3,78,740.00	3,78,740.00
29.	Public education, publicity and information	0.00	17,248.05	17,248.05
30.	Xerox copying charges	48,744.85	0.00	48,744.85
31.	Affiliation Fee	36,500.00	0.00	36,500.00
32.	FAX charges	(-)720.00	0.00	(-)720.00
33.	Development of Canteen	0.00	4,500.00	4,500.00
34.	VIP/Dignitaries Accounts	17,347.00	0.00	17,347.00
	Total	17,97,448.90	19,06,205.65	37,03,654.55
	(-) Out-standing 2000-01	0.00	85,196.00	85,196.00
		17,97,448.90	18,21,009.65	36,18,458.55
	(+) Out-standing 2001-02	22,343.00	1,19,146.00	1,41,489.00
	Total	18,19,791.90	19,40,155.65	37,59,947.55

sd/-  
Accounts Officer

sd/-  
AAO (IAC)

sd/-  
Director

**DETAILS OF REMITTANCES AND OTHER ACCOUNTS - 2000-2001**

Annexure-4		Amount in Rs.	
S.No.	Head of Account	Receipts	Payments
1.	LIC Premium	8,51,115.80	8,51,315.80
2.	Income tax recoveries and paid account	8,64,538.00	8,64,598.00
3.	Professional tax recoveries and paid account	1,11,285.00	1,11,305.00
4.	CTD/RD/CD recoveries and paid account	84,740.00	84,740.00
5.	Suspense account	18,000.00	18,000.00
6.	KGID	8,000.00	0.00
7.	CGEIS	960.00	960.00
8.	GIS	800.00	0.00
9.	Unpaid salaries	350.00	0.00
10.	GSLIS	80,384.00	80,464.00
11.	Examination fee	43,253.00	43,725.00
12.	Bank loan	3,000.00	4,000.00
13.	Medical facility - students	0.00	53,550.00
14.	Establishment charges - students	1,57,200.00	1,53,459.55
15.	Royalty	17,072.50	18,072.50
16.	Sales tax	7,44,096.00	7,42,992.00
17.	Interest accrued due account MGPO	66,101.55	0.00
18.	GPF/CPF recoveries (deputationists)	50,792.00	50,792.00
19.	Examination remuneration	9,525.00	9,525.00
20.	Prime Minister's National Relief Fund	27,650.00	35,604.00
21.	Students' Association	1,246.00	3,220.00



			Amount in Rs.
S.No.	Head of Account	Receipts	Payments
22.	University of Mysore	67,186.00	51,460.00
23.	Awards	1,319.59	1,055.00
24.	Postal Life Insurance	8,256.00	8,256.00
25.	AIISH Staff Club	8,000.00	0.00
26.	Housing loans of Banks recoveries and remittances	1,68,631.00	1,68,631.00
<b>Total</b>		<b>33,93,501.44</b>	<b>33,55,724.85</b>

sd/-  
Accounts Officer

sd/-  
AAO (IAC)

sd/-  
Director

**FUNDS 2000-2001**

<b>Schedule-A</b>		<b>(Amount in Rs.)</b>		
Particulars	Con. Provident Fund	Gen. Provident Fund	Pension Fund	Total
Opening balance as on 1.4.2000	1,24,396.00	65,47,511.00	66,83,302.52	1,33,55,209.52
Receipts during the year:-				
Subscriptions 30,424.00	35,82,781.00	0.00	36,13,205.00	
Institute's contribution	8,961.00	0.00	7,65,300.00	7,74,261.00
Interest on subscription	4,281.00	7,04,494.00	0.00	7,08,775.00
Interest on contribution	6,577.00	0.00	0.00	6,577.00
Interest on investments	0.00	0.00	5,34,833.00	5,34,833.00
Amount transferred from internal revenues	0.00	0.00	28,26,203.47	28,26,203.47
<b>Total receipts</b>	<b>50,243.00</b>	<b>42,87,275.00</b>	<b>41,26,336.47</b>	<b>84,63,854.47</b>
Payments during the year :-				
Final payments/withdrawals/advances	19,984.00	30,81,771.00	0.00	31,01,755.00
Payment of gratuity	0.00	0.00	3,42,171.00	3,42,171.00
Pension/Family pension	0.00	0.00	14,18,686.00	14,18,686.00
Commuted value of pension	0.00	0.00	3,48,805.00	3,48,805.00
<b>Total Payments</b>	<b>19,984.00</b>	<b>30,81,771.00</b>	<b>21,09,662.00</b>	<b>52,11,417.00</b>
Closing balance as on 31.3.2001	1,54,655.00	77,53,015.00	86,99,976.99	1,66,07,646.99

sd/-  
Accounts Officer

sd/-  
AAO (IAC)

sd/-  
Director

**All India Institute of Speech and Hearing, Mysore 570 006**  
**DEPOSITS AND ADVANCES OF OUTSIDE PARTIES - 2000-2001**

Schedule-B		(Amount in Rs.)			
Sl.No.	Particulars	Balance as on 1.4.2000	Receipts	Payments	Balance as on 31.3.2001
1	Caution money deposit	3,62,050.00	1,47,000.00	1,47,150.00	3,61,900.00
2	Contractor's security deposit	68,390.00	11,62,934.50	54,206.00	11,77,118.50
3	Earnest money deposit	1,37,370.00	6,33,918.00	1,87,955.00	5,83,333.00
4	Donations	69,967.00	33,875.00	0.00	1,03,842.00
<b>Total</b>		<b>6,37,777.00</b>	<b>19,77,727.50</b>	<b>3,89,311.00</b>	<b>22,26,193.50</b>

sd/-  
Accounts Officer

sd/-  
AAO (IAC)

sd/-  
Director

## REMITTANCES DUE 2000-2001

Schedule-C		(Amount in Rs.)			
Sl.No.	Particulars	Opening Balance 1.4.2000	Receipts/Credits	Payments/Debits	Closing Balance 31.3.2001
1.	Income Tax	60.00	8,64,538.00	8,64,598.00	0.00
2.	Professional Tax	1,625.00	1,11,285.00	1,11,305.00	1,605.00
3.	AIISH Staff Club	0.00	8,000.00	0.00	8,000.00
4.	GIS	0.00	800.00	0.00	800.00
5.	Unpaid salaries	6,600.00	350.00	0.00	6,950.00
6.	Suspense account	8,522.46	18,000.00	18,000.00	8,522.46
7.	GSLIS	(-)55.00	80,384.00	80,464.00	(-)135.00
8.	Examination Fee	(-)6,909.00	43,253.00	43,725.00	(-)7,381.00
9.	Establishment charges	(-)3,740.45	1,57,200.00	1,53,459.55	0.00
10.	Sales Tax	0.00	7,44,096.00	7,42,992.00	1,104.00
11.	CTD/RD/CD recoveries	(-)50.00	84,740.00	84,740.00	(-)50.00
12.	Medical facility - students	53,550.00	0.00	53,550.00	0.00
13.	University of Mysore	28,390.00	67,186.00	51,460.00	44,116.00
14.	Awards	(-)557.04	1,319.59	1,055.00	(-)292.45
15.	KGID	720.00	8,000.00	0.00	8,720.00
16.	Royalties	0.00	17,072.50	18,072.50	(-)1,000.00
17.	LIC Premium	0.00	8,51,115.80	8,51,315.80	(-)200.00
18.	Students' Association	(-)2,264.00	1,246.00	3,220.00	(-)4,238.00
19.	Bank loan	0.00	3,000.00	4,000.00	(-)1,000.00
20.	Prime Minister's National Relief Fund	0.00	27,650.00	35,604.00	(-)7,954.00
Total		85,891.97	30,89,235.89	31,17,560.85	57,567.01

sd/-  
Accounts Officer

sd/-  
AAO (IAC)

sd/-  
Director



All India Institute of Speech and Hearing, Mysore 570 006  
**OTHER ITEMS (OUT-STANDING LIABILITIES) - 2000-2001**

Schedule-D		(Amount in Rs.)			
Sl.No.	Particulars	Opening Balance	(-) Debits	(+) Credits	Closing Balance
<b>Non-Plan</b>					
1.	Salaries and allowances	12,00,983.00	12,00,983.00	12,54,645.00	12,54,645.00
2.	Stipend/scholarship	0.00	0.00	1,15,678.00	1,15,678.00
3.	Professional services	0.00	0.00	4,100.00	4,100.00
4.	Other charges	0.00	0.00	22,343.00	22,343.00
<b>Plan</b>					
5.	Technical equipment	2,88,397.00	2,88,397.00	3,38,905.00	3,38,905.00
6.	Furniture	1,03,057.00	1,03,057.00	15,38,145.00	15,38,145.00
7.	Library and Documentation	1,195.00	1,195.00	23,234.00	23,234.00
8.	Other charges	85,196.00	85,196.00	0.00	0.00
9.	Major works	17,152.00	17,152.00	1,55,264.00	1,55,264.00
10.	Minor works	2,500.00	2,500.00	3,60,071.00	3,60,071.00
11.	Travelling allowances	0.00	0.00	20,815.00	20,815.00
12.	Electricity charges	0.00	0.00	42,046.00	42,046.00
13.	Wages	0.00	0.00	77,100.00	77,100.00
14.	Project -Prevention of Deafness & Hearing Impairment	0.00	0.00	1,42,370.00	1,42,370.00
<b>Total</b>		<b>16,98,480.00</b>	<b>16,98,480.00</b>	<b>40,94,716.00</b>	<b>40,94,716.00</b>

sd/-  
Accounts Officer

sd/-  
AAO (IAC)

sd/-  
Director

**SPONSORED PROGRAMMES AND OTHER SCHEMES - 2000-2001**

<b>Schedule-E</b>		<b>(Amount in Rs.)</b>			
Sl.No.	Particulars	Balance as on 1.4.2000	Receipts	Payments	Balance as on 31.3.2001
1.	Indian Council of Medical Research	59,902.51	4,930.00	0.00	64,832.51
2.	Scheme under HelpAge India	66,165.00	5,364.00	0.00	71,529.00
3.	UNICEF	11,424.50	1,802.00	0.00	13,226.50
4.	Symposium on Cross Cultural Studies on Language Process	3,881.00	319.00	0.00	4,200.00
5.	Mobile Unit under the aid of Government of Karnataka	3,95,045.55	27,00,736.90	1,87,601.00	29,08,181.45
6.	Orientation course for All India Radios staff	544.20	0.00	544.20	0.00
7.	Research project on Developmental Milestones of Language Acquisition in India Language.	3,156.20	0.00	0.00	3,156.20
8.	Workshop on Clinical Application of Personal Computers in Communication Disorders	530.50	0.00	530.50	0.00
9.	RCI-CRE Programmes	55,834.45	3,23,000.00	80,040.00	2,98,794.45
10.	Project-Transformation of Speech of the Hearing impaired.	(-),1,95,086.00	315.00	0.00	(-),1,94,771.00
11.	Project - Prevention of Deafness and Hearing Impaired.	11,66,030.32	0.00	11,66,030.32	0.00
12.	WHO-Training Modules on POD and Training of Trainees	3,80,229.00	29,588.00	1,323.00	4,08,494.00
13.	WHO workshop for Health workers and other gross root level workers on Prevention, Identification and Management of Communication Disorders.	1,84,565.00	73.00	30,955.00	1,53,683.00
14.	WHO- seminar on the rehabilitation of Hearing impaired.	1,08,534.00	4,011.00	27,238.00	85,307.00
<b>Other Schemes</b>					
1.	Patients Welfare Fund	82,575.80	9,101.00	1,494.00	90,182.80
2.	AIISH Anniversary Fund	1,336.00	0.00	0.00	1,336.00
3.	Camp organizers account	267.00	25,316.00	23,556.00	2,027.00
<b>Total</b>		<b>23,24,935.03</b>	<b>31,04,555.90</b>	<b>15,19,312.02</b>	<b>39,10,178.91</b>

sd/-  
Accounts Officer

sd/-  
AAO (IAC)

sd/-  
Director

**All India Institute of Speech and Hearing, Mysore 570 006**

**FIXED AND OTHER ASSETS - 2000-2001**

Schedule-F		(Amount in Rs.)					
Sl.No.	Particulars	Balance as on 1.4.2000	Non-plan actuals	Additional purchase Plan actuals	Outstanding	*Recoveries **Transfers ***Written off	Balance as on 31.3.2001
1.	Building and other works						
	a) Completed buildings	1,72,44,435.67	0.00	89,00,559.62	0.00	0.00	2,61,44,995.29
	b) Works in-progress	1,05,67,631.12	0.00	2,27,67,708.00	5,15,335.00	89,18,665.62	2,49,32,008.50
	c) Building materials	13,437.17	0.00	0.00	0.00	0.00	13,437.17
2.	Furniture and fixtures	31,90,010.82	0.00	5,61,673.00	15,38,145.00	500.00	52,89,328.82
3.	Library books and films	78,65,935.03	0.00	9,13,093.00	23,234.00	*22,023.00	87,80,239.03
4.	Vehicles						
	a) Car	1,13,700.00	0.00	0.00	0.00	0.00	1,13,700.00
	b) Omni bus	2,51,095.57	0.00	0.00	0.00	0.00	2,51,095.57
	c) Mobile unit	18,510.00	0.00	26,75,827.90	0.00	0.00	26,94,337.90
5.	Technical equipment	2,89,00,189.69	0.00	25,56,093.00	3,38,905.00	5,33,262.27	3,12,61,925.42
6.	Gifted equipment	1,12,53,550.41	20,52,513.18	0.00	0.00	0.00	1,33,06,063.59
7.	Office equipment	12,25,301.18	670.00	12,16,451.00	0.00	0.00	24,42,422.18
8.	Garden equipment	59,868.09	0.00	0.00	0.00	***1,615.72	58,252.37
9.	Sundry assets						
	a. Hostel utensils	1,21,616.91	0.00	0.00	0.00	***1,360.05	1,20,256.86
	b. Teaching aids	1,35,582.42	0.00	18,000-00	0.00	***145.00	1,53,437.42
<b>Total</b>		<b>8,09,60,864.08</b>	<b>20,53,183.18</b>	<b>3,96,09,405.52</b>	<b>24,15,619.00</b>	<b>94,77,571.66</b>	<b>11,55,61,500.12</b>

sd/-  
Accounts Officer

sd/-  
AAO (IAC)

sd/-  
Director

## STATEMENT SHOWING DETAILS OF WORKS IN PROGRESS AS ON 31.3.2001

## MAJOR WORKS IN PROGRESS (PLAN)

Schedule-F1 (page-1)		(Amount in Rs.)			
Sl.No.	Particulars	Opening Balance 1.4.2000	Expenditure 2000-2001 Debits Credits		Closing Balance 31.3.2001
1.	Construction of guest house	50,22,953.58	0.00	50,22,953.58	0.00
2.	HT Installation	4,16,947.00	0.00	4,16,947.00	0.00
3.	Construction of 1st floor over dining hall in Ladies hostel	5,85,315.50	0.00	5,85,315.50	0.00
4.	Construction of 1st floor over C1 and C2 quarters	5,45,320.61	0.00	5,45,320.61	0.00
5.	Metalling of road in front of ENT block	48,214.00	0.00	48,214.00	0.00
6.	Sump tank near north gate	28,931.00	0.00	28,931.00	0.00
7.	Masonry box culvert and drain	48,580.00	0.00	48,580.00	0.00
8.	Storm water drain	2,18,314.00	0.00	2,18,314.00	0.00
9.	Rechip carpeting of road in front of Administrative Block	43,690.00	0.00	43,690.00	0.00
10.	Special repairs to 'E' type quarters	5,12,373.93	0.00	5,12,373.93	0.00
11.	Additions and alterations to Electronics Lab.	3,36,705.00	0.00	3,36,705.00	0.00
12.	Providing office system	5,44,731.00	0.00	5,44,731.00	0.00
13.	Multipurpose sports hall and students centre	8,783.00	1,000.00	0.00	9,783.00
14.	Modification of Audiology Block	15,86,963.50	37,10,071.00	8,106.00	52,88,928.50
15.	Library block	71,325.00	1,71,21,821.00	0.00	1,71,93,146.00
16.	Construction of compound wall - Dharmashala	0.00	6,40,301.00	0.00	6,40,301.00
<b>Total</b>		<b>1,00,19,147.12</b>	<b>2,14,73,193.00</b>	<b>83,60,181.62</b>	<b>2,31,32,158.50</b>

sd/-  
Accounts Officer

sd/-  
AAO (IAC)

sd/-  
Director



## STATEMENT SHOWING DETAILS OF WORKS IN PROGRESS AS ON 31.3.2001

## MINOR WORKS IN PROGRESS (PLAN)

Schedule-F1 (page-2)		(Amount in Rs.)		
Sl.No.	Particulars	Opening Balance 1.4.2000	Expenditure 2000-2001 Debits      Credits	Closing Balance 31.3.2001
1.	Fixing of mosaic benches in the premises	6,475.00	0.00      6,475.00	0.00
2.	Installing of solar water unit 200 LPD of AIISH Deptl. Canteen	33,000.00	0.00      33,000.00	0.00
3.	Providing fencing near the men's hostel	15,523.00	0.00      15,523.00	0.00
4.	Fixing of mosaic benches at Dharmashala	4,625.00	0.00      4,625.00	0.00
5.	Providing parallel bars at men's hostel	4,620.00	0.00      4,620.00	0.00
6.	Sinking of borewells in Dharmashala/guest house	2,10,324.00	0.00      2,10,324.00	0.00
7.	Repairs to the fencing at old stores building	8,466.00	0.00      8,466.00	0.00
8.	Waterproof cement treatment to the therapy building	36,738.00	0.00      36,738.00	0.00
9.	Fencing of Dharmashala buildings	38,402.00	0.00      38,402.00	0.00
10.	Repairs of size stone masonry east of administrative block	33,905.00	0.00      33,905.00	0.00
11.	Shifting of AC from guest house to Directors chambers	13,850.00	0.00      13,850.00	0.00
12.	Providing storage below stair case	22,848.00	0.00      22,848.00	0.00
13.	Consulting charges for providing details rehabilitation of stone clading work	2,500.00	0.00      2,500.00	0.00
14.	Supplying and Installation 100 LPP water unit in ladies hostel	20,440.00	0.00      20,440.00	0.00
15.	Proving and laying GI pipe line new borewell to sump tank near LHS	21,459.00	0.00      21,459.00	0.00
16.	Modification/alteration to Director office	75,309.00	0.00      75,309.00	0.00
17.	Electrification work of shifting powerline/conversion of overhead - new lib. block	0.00	5,00,850.00      0.00	5,00,850.00
18.	Fixing kerbstone at AIISH	0.00	3,05,498.00      0.00	3,05,498.00

(Amount in Rs.)

Sl.No.	Particulars	Opening Balance	Expenditure 2000-2001		Closing Balance
		1.4.2000	Debits	Credits	31.3.2001
19.	Repair/replacement of worn-out sanitary work at Ladies hostel	0.00	2,59,063.00	10,000.00	2,49,063.00
20.	Repair/replacement of worn-out sanitary work at Gents hoste	0.00	2,02,392.00	0.00	2,02,392.00
21.	Improvement to AIISH Departmental Canteen	0.00	26,712.00	0.00	26,712.00
<b>Total</b>		<b>5,48,484.00</b>	<b>12,94,515.00</b>	<b>5,58,484.00</b>	<b>12,84,515.00</b>

sd/-  
Accounts Officer

sd/-  
AAO (IAC)

sd/-  
Director

**ADVANCES TO STAFF - 2000-2001**

Schedule G		(Amount in Rs.)			
Sl.No.	Particulars	Balance as on 1.4.2000	Additional/ Debits	Recoveries/Credits	Closing Balance 31.3.2001
A. Bearing Interest					
1.	House building advance	7,75,001.00	1,78,750.00	1,11,965.00	8,41,786.00
2.	Scooter advance	63,966.00	1,98,200.00	56,133.00	2,06,033.00
3.	Cycle advance	29,000.00	21,070.00	21,730.00	28,340.00
4.	Fan advance	0.00	0.00	0.00	0.00
5.	Motor car advance	25,300.00	0.00	0.00	25,300.00
B. Not bearing interest					
1.	Festival advance	42,470.00	1,31,490.00	1,39,110.00	34,850.00
2.	Travelling allowance advance	8,711.00	62,238.00	51,238.00	19,711.00
3.	LTC advance	7,356.00	16,850.00	20,950.00	3,256.00
4.	Advance of Pay (Leave salary)	0.00	0.00	0.00	0.00
5.	Medical advance	1,688.00	0.00	0.00	1,688.00
Total		9,53,492.00	6,08,598.00	4,01,126.00	11,60,964.00

sd/-  
Accounts Officer

sd/-  
AAO (IAC)

sd/-  
Director

**All India Institute of Speech and Hearing, Mysore 570 006**  
**SUNDRY DEBTORS FOR DEPOSITS AND ADVANCES : 2000-2001**

Schedule-H		(Amount in Rs.)			
Sl.No.	Particulars	Opening Balance	Debits	Credits	Closing Balance
<b>A. Permanent</b>					
1	Karnataka Power Transmission Corporation Ltd., (3MMD)	1,99,067.00	0.00	0.00	1,99,067.00
2	Telephone - Department of Telecommunication	9,040.00	1,360.00	0.00	10,400.00
3	M/s. Little Gas Co. Kitchen equipment system.	23,500.00	0.00	0.00	23,500.00
<b>B. Temporary</b>					
1	Mysore City Corporation	100.00	0.00	0.00	100.00
2	University Engineering Division	1,282.93	0.00	0.00	1,282.93
3	Deputy Controller of A/cs Dept. of Supplies,	3,693.11	0.00	0.00	3,693.11
4	PF A/c. with MGPO, Mysore SB A/c.839050	4,26,733.55	47,79,190.45	41,04,121.00	11,01,803.00
5	Pension fund A/c. with Bank of Baroda SB A/c. 177	11,86,572.07	25,59,730.45	21,54,046.00	15,92,256.52
6	Construction fund A/c. with Bank of Baroda SB A/c.178	3,993.60	167.00	4,160.60	0.00
7	Advances -Suppliers'	29,82,886.06	25,70,066.99	42,81,279.45	12,71,673.60
8	Short-term fixed deposit with Bank	1,62,85,012.77	9,04,63,674.00	6,77,48,533.77	3,90,00,153.00
9	Deposit with Vani Vilas Water Works	100.00	0.00	0.00	100.00
10	Loan with AIISH Departmental Canteen	64,479.00	0.00	12,000.00	52,479.00
11	Internal Revenue A/c. with Bank of Baroda SB A/c. No.196	4,081.40	4,21,854.00	0.00	4,25,935.40
12	TOSHI A/c. with Bank of Baroda SB A/c. 199	8,825.00	315.00	0.00	9,140.00
13	Deposit with Karnataka Public Works Department	4,47,500.00	0.00	0.00	4,47,500.00
14	SB A/c. No.C & I 12 with State Bank of Mysore	1,313.50	0.00	0.00	1,313.50
<b>Total</b>		<b>2,16,48,179.99</b>	<b>10,07,96,357.89</b>	<b>7,83,04,140.82</b>	<b>4,41,40,397.06</b>

sd/-  
Accounts Officer

sd/-  
AAO (IAC)

sd/-  
Director



**INVESTMENT 2000-01**

Schedule I		(Amount in Rs.)			
Sl.No.	Particulars	Balance as on 1.4.2000	Additions	Realizations	Balance as on 31.3.2001
<b>A. Contributory/General Provident Fund:-</b>					
1.	Government Securities	2,80,000,000.00	0.00	0.00	2,80,000.00
2.	Units with Units Trust of India	16,00,000.00	0.00	0.00	16,00,000.00
3.	Fixed deposits with State Bank of Mysore, Mysore 6	3,91,927.00	0.00	3,91,927.00	0.00
4.	Fixed deposits with Bank of Baroda	9,05,034.00	16,79,867.00	12,65,882.00	13,19,019.00
5.	Deposit with KPTC Ltd.	24,00,000.00	10,00,000.00	0.00	34,00,000.00
<b>B. Pension Fund:-</b>					
1.	Government Securities	4,00,000.00	0.00	0.00	4,00,000.00
2.	Units with Units Trust of India	38,40,000.00	0.00	0.00	38,40,000.00
3.	Deposit with BOB	0.00	41,517.00	0.00	41,517.00
<b>C. Others : (CMD/EMD/PWF):-</b>					
1.	Fixed deposit with State Bank of Mysore (PWF)	76,462.00	91,849.00	83,989.00	84,322.00
2.	Fixed deposit with Bank of Baroda (CMD)	3,17,149.00	3,43,282.00	3,17,149.00	3,43,282.00
3.	Fixed deposit with Bank of Baroda (Donations)	69,022.00	95,644.00	69,719.00	94,947.00
<b>D. Endowment funds:-</b>					
1.	Units with Units Trust of India: Mother of the year award :Dr.Prathibha Karanth	10,000.00	0.00	0.00	10,000.00
2.	Fixed deposit with Bank of Baroda: Abhilash award : Smt. India Kumari	5,000.00	5,000.00	5,000.00	5,000.00
<b>Total</b>		<b>1,02,94,594.00</b>	<b>32,57,159.00</b>	<b>21,33,666.00</b>	<b>1,14,18,087.00</b>
sd/- Accounts Officer		sd/- AAO (IAC)	sd/- Director		

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 2001**

**(AUDITED)**

Schedule J				(Amount in Rs.)		
Liabilities	Amount			Assets	Amount	
	Current year	Previous year			Current year	Previous year
Capital Fund:-				Closing Balance :-		
Opening balance	30,35,314.38			Bank of Baroda SB A/c. No.184	10,74,668.38	3,65,718.38
Less: Excess of expenditure over Income	19,23,274.50	11,12,039.88	30,35,314.38	Amount due from AIISH	14,330.50	0.00
Amount due to AIISH		0.00	90,215.00	Closing stock of Hearing Aids	23,041.00	1,830.00
				STFD with Bank of Baroda	0.00	7,07,981.00
				Grant-in-Aid due from Min. of Social Justices Empowerment	0.00	20,50,000.00
Total	11,12,039.88	31,25,529.38		Total	11,12,039.88	31,25,529.38

sd/-  
Accounts Officer

sd/-  
AAO (IAC)

sd/-  
Director

**ADIP SCHEME (GOVERNMENT OF INDIA, MINISTRY OF SOCIAL JUSTICE AND EMPOWERMENT)**  
**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2001**  
**(AUDITED)**

Schedule J-1				(Amount in Rs.)	
Expenditure	Amount		Income	Amount	
	Current year	Previous year		Current year	Previous year
To,			By,		
Expenditure on Hearing Aids:-			Grants from Min.of Social		
			Justice & Empowerment	0.00	20,50,000.00
Purchases 2000-01	19,40,874.00		Proceeds on sale of hearing aids	1,887.50	2,820.00
Add: Opening stock	1,830.00		Interest -		
	19,42,704.00		a) SDRs	17,808.00	81,803.00
Less: Closing stock	23,041.00	19,19,663.00	b) SB A/c.184	37,905.00	49,702.00
Infrastructure assistance	61,200.00	62,700.00	Excess of expenditure over income		
			carried over to balance sheet	19,23,274.50	2,45,995.00
Contingencies	12.00	0.00			
<b>Total</b>	<b>19,80,875.00</b>	<b>24,30,320.00</b>	<b>Total</b>	<b>19,80,875.00</b>	<b>24,30,320.00</b>

sd/-  
Accounts Officer

sd/-  
AAO (IAC)

sd/-  
Director

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 2001**

**(AUDITED)**

Schedule J-2			(Amount in Rs.)		
Expenditure	Amount		Income	Amount	
	Current year	Previous year		Current year	Previous year
To,			By,		
SB A/c with BOB - 184	3,65,718.38	20,73,395.38	Purchase of Hearing Aids	19,40,874.00	19,55,880.00
STFD with BOB	7,07,981.00	1,81,632.00	Infrastructure assistance	61,200.00	62,700.00
Grants from Ministry of Social Justice and Empowerment, GoI.	20,50,000.00	0.00	STFD with BOB, Mysore	0.00	95,269.00
Proceeds on sale of Hearing Aids	1,887.50	2,820.00	Contingencies	12.00	0.00
<b>Interest :</b>			<b>Closing balance :-</b>		
a) SDRs	17,808.00	81,803.00	SB A/c. with BOB - 184	10,74,668.38	3,65,718.38
b) SB A/c	37,905.00	49,702.00	Due from AIISH	1,04,545.50	0.00
Amount due to AIISH	0.00	90,215.00			
<b>Total</b>	<b>31,81,299.88</b>	<b>24,79,567.38</b>	<b>Total</b>	<b>31,81,299.88</b>	<b>24,79,567.38</b>

sd/-  
Accounts Officer

sd/-  
AAO (IAC)

sd/-  
Director



## ORGANIZATION CHART OF A.I.I.S.H.

