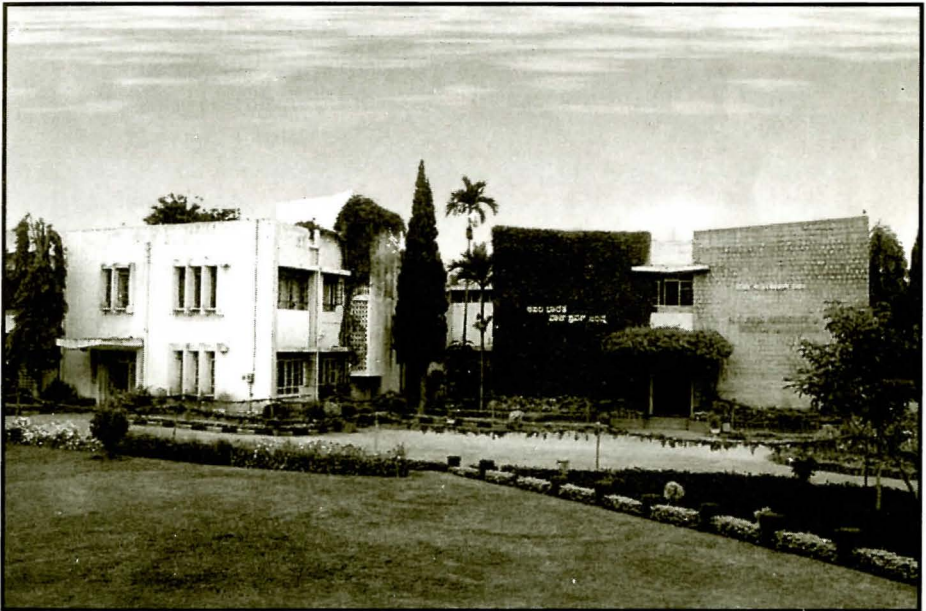


AIISH

ANNUAL REPORT 2002-2003



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



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DIRECTOR'S REPORT

The year 2002-03 saw much progress. New academic programs were started. Laboratories were equipped with state-of-art technology. A variety of new clinical programs were launched. Research efforts were multiplied. Public education was given a new dimension. There was urgency in taking our services to the community. Infrastructure development at the institute was given stressed. Our authorities at the Ministry of Health & Family Welfare, Government of India deserve kudos and our thanks for supporting the institute to this extent.

The Executive Council of the institute met on 1st April. Though it was on 'all fools day', the EC took momentous decisions to improve the institute. Prominent among them were: recommending deemed university status to the institute: starting of a diploma and a B.S.Ed course; establishment of the Department of Speech-language Sciences; establishment of preschool training program and a center; establishment of many innovative clinical service programs; granting of many benefits to the staff and students; and creating 16 new posts, although on contract basis.

Most of these programs were implemented during the year except those pertaining to academics. Although the diploma program was launched, the B.S.Ed program could not be, as we had to get approval from a plethora of institutions. The new clinical service programs on preschool training in 6 languages, voice care center, alternate and augmentative communication unit, and a central earmold lab, were all launched. The work on prevention and early identification of communication disorders has been expanded to cover different populations and areas.

Two new buildings - therapy clinic and a sports complex - were completed during the year, and foundation stone was laid for

a third (preschool center). Shri Shatrughan Sinha, the then Hon'ble Minister for Health & Family Welfare, Government of India and Chairman, EC visited the institute and inaugurated the Therapy Clinic on 25th January 2003. Shri Ananth Kumar Hon'ble Minister for Urban Development & Poverty Alleviation inaugurated the Sports Complex and the new Audiology test complex on 6th December 2002. Shri S. K. Naik, Secretary, Ministry of Health & Family Welfare, Government of India inaugurated the voice care center & preschool training program on 13th & 14th of November 2002, respectively.

ACADEMIC ACTIVITIES

The main objectives of the institute are to impart professional training, render clinical services, conduct research and provide rehabilitation services in the field of speech and hearing. The institute is affiliated to the University of Mysore for the award of degrees. The courses offered at the institute have been recognized by the Rehabilitation Council of India (RCI).

Introduction of Diploma in Hearing Aid and Earmold Technology

The highlight of the academic activities at the institute during the year was the introduction of a 1-year Diploma program in Hearing Aid and Earmold Technology. The course is open to +2 students with physics background, students with Diploma in Electrical sciences or Electronics and students with ITI certificate. The course, in its very first year, received excellent response attracting students from Northeastern states also. The course was restricted to 15 students. The focus of the program is to generate skilled manpower in the area of hearing aid servicing and earmold making. It is expected that students thus trained will spread themselves out, in towns and taluk centers, serving hearing impaired population at their doorsteps.

Introduction of Integrated Semester Scheme

Integrated Semester Scheme was introduced for B.Sc (Sp & Hg) from the academic year 2002-03. Along with this, internship was introduced making the B.Sc (Speech & Hearing) a 4-years course. The syllabus of the course was fully revised.

Establishment of the Department of Speech-Language Sciences

The Department of Speech Sciences had been established in the year 1984 to study normal aspects of speech and to conduct specialized studies in this area. Speech and language are two, but highly interrelated phenomena, and a focus was needed to study normal aspects of language. Therefore, the scope of functioning of the department of speech sciences was expanded to include study of language sciences. The objective was to focus on research and clinical issues in various aspects of language and its related domains. It was proposed to give thrust to the study of language acquisition and disorders, cognition as related to language, acquisition of literacy in Indian context and the effect of culture on communication. In order to achieve these objectives, a new department of Speech-languages Sciences was established with the following four subunits: culture and communication unit, clinical linguistic unit, language and cognition unit, and language and literacy unit.

A lecturer in language pathology was shifted to the new department from the department of Speech Pathology and a new post of clinical linguist was created (on contract basis). Prof. S. N. Hegde, Vice Chancellor, University of Mysore and Dr. Uday Narayana Singh, Director, CIIL launched the new department on 10th April 2002. A national seminar on "Speech and language sciences: Current trends and future directions" was organized as part of the inauguration of the new department.

Ongoing Programs

Students Intake

The existing courses continued to attract the best talent from different states of the Union. Table 1 shows the number of students admitted to different courses at the institute in the last 2 years.

Course	2001-02	2002-03
B. Sc I year	35	40
M.Sc I year	25	25
Diploma in HA & ET	-	15
Junior Research Fellows	4	4

Table 1: Number of students admitted to different courses at the institute in the last two years.

The Executive Council of the institute approved, at its 47th meeting on 1st April 2002, an increase in the intake of B.Sc students from 35 to 40. The additional 5 seats will be in the self-finance category.

Doctoral Research

Doctoral program has become a major academic activity at the institute. During the year being reported, four students from Kerala, Chandigarh, Karnataka and Tamil Nadu were given AIISH Research fellowship. Table 2 summarizes the number of doctoral students working at the institute.

No. of candidates working for Ph.D (AIISH Staff)	8
No. of candidates working for Ph.D (JRF)	8
No. of candidates awarded AIISH Research Fellowship during the year	4
No. of candidates who submitted thesis during the year	2

Table 2 : Summary of Ph.D program at the institute

New Training Programs

B. S. Ed (Hearing Impairment)

A one-year program leading to the degree of B. S. Ed (Hearing Impairment) will be introduced from the academic year 2003-04. The University of Mysore has instituted the program and affiliation is expected shortly from the University. Rehabilitation of India has already recognized the program.

Short-term Training Programs

Short-term training programs continued to receive their focus at the institute. The central focus of these short-term programs being 'user-defined' (programs are carried out as per the requirements of the users), they continued to be in good demand. Table 3 gives the topics and the number of programs conducted during the year.

Topic	Department	No. of programs
Ear mould making	Audiology	3
Hearing evaluation	Audiology	5
Hearing aids	Audiology	5
Hearing aid repairs & servicing	Electronics	1
Biomedical instrumentation in speech and hearing	Electronics	1
Speech and language development in the hearing impaired	Sp Pathology	1
Speech and language disorders	Sp. Pathology	1
Instrumentation in speech sciences	Sp. Lang. Science	4
Computer aided therapy Science	Sp. Lang. techniques	2
Evaluation of voice, articulation and fluency	Sp. Lang. Science	1
Total		25

Table 3: Number and theme of short-term programs conducted during the year.

RCI Training Program

AIISH is a very active partner in the programs of the Rehabilitation Council of India. AIISH is the nodal center in Karnataka for the RCI programs on training of medical officers at PHCs.

PHC Doctors Training Program

AIISH conducted a total of 16 programs and trained a total of 277 doctors from the districts of Bangalore, Chamarajanagar, Chickmagalore, Chitradurga, Coorg, Hassan, Kolar, Mandya, Mysore, South Canara, Tumkur, and Udupi. Similarly, KIMS, Hubli conducted 16 programs and trained 224 doctors from the districts of Belgaum, Bagalkot, Bellary, Bijapur, Davanagere, Dharwar, Gadag, Gulbarga, Haveri, and Uttara Kannada, during the year. An amount of Rs 10.15 lakhs was received by the AIISH as grants from RCI for conducting these programs.

Continuing Rehabilitation Education (CRE) programs of RCI

A CRE program has been launched by RCI with an aim to upgrade the knowledge and skills of rehabilitation professionals/ personnel working in the field of special education and rehabilitation including speech and hearing. These programs are conducted by RCI recognized training centers in their respective areas of specialization nationwide. During the year, the institute conducted five such programs and trained over 100 professionals from Karnataka and other states. The institute received a grant of Rs.94,150/- from RCI for conducting these programs. The programs conducted as part of CRE are shown in Table 4.

Title	Date	No. of participants
Current management practices in MR and application of learning principles the management of MR	July 2002	21
Assisting children with specific learning disabilities	August 2002	32

Needs of hearing impaired children, additional handicaps (special educators)	December 2002	29
Refresher course on policies (special educators)	March 2003	30

Table 4: Programs conducted as part of CRE program during the year

Workshops / Seminars Conducted

Specialized training programs in the form of workshops, seminars and orientation programs continued in the year being reported. A total of 11 programs were conducted during the year. A grant of Rs. 53,210/- was received for this purpose from various agencies.

Seminar on Speech, Language Sciences: Current Trends and Future Directions: April 2002

The purpose of the seminar was to provide a forum for professionals in the field of speech language sciences to update their current knowledge and to focus on the directions for future research relevant to Indian conditions. The current trends and future directions in the various areas of speech-language sciences such as speech analysis and recognition, language processing, suprasegmental features, 3-Rs in the Indian scenario, biological basis of language, psychological and linguistic basis of language and music, perception and multilingualism, were discussed. Seventeen professionals from different parts of the country delivered lectures on various aspects of speech-language sciences.

Hearing Aid Users Workshop: May 2002

This workshop was conducted by the Department of

Audiology. The main objective was to educate the hearing aid users on the different types of hearing aids and their advantages and disadvantages; use of hearing aids in different situations; trouble shooting and minor repair of hearing aids; information regarding telecommunication aids for the hearing impaired; and recent advances in hearing aid technology.

Seminar on Labial Coarticulation (Speech & Hearing professionals) : April 2002

The objective of the seminar was to provide a forum for speech pathologists and linguists to exchange the results of research on labial coarticulation in Kannada, Telugu, Tamil, Malayalam, Marathi and Assamese. The proceedings of the seminar will be published by CIIL, Mysore.

Workshop on Assisting Children with Specific Learning Disabilities (Professionals, Educators and Teachers): June 2002

This workshop was conducted for special educators and educators. Thirty-two participants from various parts of Southern India attended the workshop. Eleven resource persons delivered lectures on different topics. The workshop also provided opportunities to have hands-on-experience in the identification and assessment of children with learning disability. Display of assessment tools and remedial resources in the form of manuals and software was arranged. Certificates were distributed by Ms. Shobha Nambisan, Principal Secretary, Department of Women and Child Welfare, Govt. of Karnataka, Bangalore during the valedictory function.

Workshop on Needs of Hearing Impaired Children with Additional Handicaps (Special Educators): July 2002

This program was organized to enable special educators to update their knowledge on recent developments in the assessment

and rehabilitation of hearing-impaired with additional handicaps such as visual impairment, mental retardation, cerebral palsy and learning disorders. Specialists in the areas of hearing impairment, communication problems, visual problems and orthopedic problems served as resource personnel.

Workshop on Repair of Behind-the-Ear Hearing Aids (Rural Technicians): August 2002

The workshop imparted technical skills to rural technicians in the repair, maintenance and servicing of BTE hearing aids. The participants were also given extensive hands-on-experience. This workshop resulted in a large number of skilled personnel who can help the disabled at their doorsteps. Tool kit and course material were provided to the participants. Technical engineers (from the manufacturing company) who have special expertise in BTE hearing aids served as resource personnel.

Seminar on Cross-Language Perception of Vowels (Speech and Hearing Professionals): October 2002

The objective of the seminar was to deliberate on the mechanism of vowel perception by non-native speakers of different Indian languages. Twenty-three personnel were trained to do cross language research. The seminar had five sessions on introduction to speech perception, experimental paradigms in cross language research, and perceptual evaluation. A blue print was arrived to bring all professionals, interested in this area, to carry out and coordinate further research. The participants will study vowel perception in different languages and present the results in a workshop to be conducted in the year 2003.

National Seminar on Middle Ear and Cochlear Implants (Speech & Hearing Professionals): October 2002

A national seminar on cochlear implants, middle ear implants

and bone anchored hearing aids was conducted with M/s. Cochlear Ltd., Australia and M/s. PIKA Medicals, Bangalore. Speech and hearing professional from all over the country attended the seminar. The seminar enabled speech and hearing professionals to update their knowledge on recent developments in the rehabilitation of the hearing-impaired.

Workshop on Acoustic & Assistive Devices (Heads of Institutions & Educators): Nov. 2002

This program aimed at educating educators on ways to rehabilitate school-going hearing impaired children. The lectures emphasized on acoustics of sound transmission, signs and symptoms of hearing impairment, need for early identification, hearing aids and assistive devices for the hearing impaired, setting up of classrooms for inclusive education and alternate ways to improve speech perception.

National Workshop on Preventive Maintenance and Calibration of Audiometers and Immittance Meters (Speech & Hearing Professionals): December 2002

The workshop imparted technical skills in calibration and maintenance of audiometers and immittance meters. The participants were imparted with theoretical knowledge and technical skills through hands on experience. Participants were provided a handbook on calibration. Engineers from M/s. Advanced Micronic Devices, Bangalore and M/s. Aparna Meditronics, Pune, served as faculty.

CLINICAL SERVICES

Clinical services were provided, during the year, in the form of diagnostic, therapeutic and counseling services to patients with speech and hearing problems. These services were extended to a total of 29775 patients in the year 2002-03 of which 13076 were new patients. The remaining 16699, registered in the previous years,

continued to receive speech-language therapy. Tables 5 and 6 give a brief summary of the clinical services relate data.

No. of patients evaluated for hearing at	
a) AIISH	7557
b) Outreach	4266
c) Extension services	12,973
Total number of cases evaluated	20,530
Evaluated for providing hearing aids	3509
No. of free hearing aids issued under ADIP Scheme	839
No. of hearing aids issued under POD project	126
No. of patients evaluated for speech & language disorders at	
a) AIISH	1270
b) Outreach	1976
c) Extension services	12154
No. of individual therapy sessions conducted	34,960
No. of group therapy session conducted	2,164

Table 5: Number of patients who visited the institute during the year

Community Service Program

AIISH has been organizing clinical programs in the community. These programs are very popular and are made use of by a large number of people. Most of these programs are sponsored by NGO's.



Sri Shatrughan Sinha, Hon'ble Minister for Health & Family Welfare,
Government of India and Chairman, Executive Council,
AIISH arriving at the institute



Sri Shatrughan Sinha, Hon'ble Minister for Health and Family Welfare,
Government of India, inaugurating the New Therapy Clinic.
Prof. S. N. Hegde, Vice Chancellor, University of Mysore (on the right)
and Prof. D. Nagaraja, Vice Chancellor / Director NIMHANS (on the left)
look on.



Front view of the newly constructed Therapy Clinic



Western side of the newly constructed Therapy Clinic

No. of people evaluated for hearing loss at camps	4266
No. of people referred to the institute	1297
No. of free hearing aids issued	1789
No. of people evaluated for speech-language problems	1450
No. of people referred to the institute	108

Table 5: Statistics on the extension programs during the year.

Assistance to Disabled Persons for Purchase / Fitting of Aids and Appliances: ADIP Scheme of the Ministry of Social Justice and Empowerment, Government of India

Under the ADIP scheme, 2416 hearing aids were issued free of cost. The Ministry of Social Justice and Empowerment, Government of India sanctioned a grant of Rs. 25 lakhs under the ADIP scheme. In addition, 126 hearing aids were issued, free of cost, under the prevention of deafness project. A special feature of the ADIP scheme this year was that the institute conducted a series of camps in the neighboring state of Maharashtra and issued nearly 400 hearing aids.

Voice Care Center

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. A need to open professional voice care center has long been felt. Sri. S. K. Naik, Secretary, Ministry of Health & Family Welfare, Government of India inaugurated the "Professional Voice Care Center" on 13.11.2002. The center is dedicated to provide special services for professional voice users including singers,

politicians, actors and teachers. The center caters to the advancement of management procedures for voice and voice problems in professional voice users. It intends to conduct intensive evaluation and develop newer treatment methods to address the problems of professional voice users, who provide exciting challenges to vocalogists. The center has a laboratory equipped with state-of-art instruments required for evaluation and treatment of voice disorders.

Preschool Training Programs for Children with different Communication Disorders

The therapy clinic has been running group therapy programs for children with hearing impairment and mental retardation in the last twenty years to facilitate group interaction, improve socialization and communication skills in these children. A regular program on preschool training program for children with hearing impairment, mental retardation, and cerebral palsy was started in 2002-03. The objective of this program is to achieve successful integration of children in the normal school. Sri S K Naik, Secretary, Department of Health, formally inaugurated this preschool program on 14th November 2002. Since then, a preschool training program for children with hearing impairment, mental retardation or cerebral palsy, in two age groups of 2-4 years, and 4-6 years, and speaking any one of the six languages of Kannada, Tamil, Telugu, Malayalam, Hindi or English is being run. The program is tentatively housed in the newly built therapy clinic. The activities in the school were planned with specific curriculum framed for various communication disorders.

The program would be shifted to a new center for preschool training, a 35,000 sq. ft. building, which will be operational from 2003. The program would be expanded, in the coming years, to include learning disabled and autistic children, and speaking different languages, in different age groups. The details of the preschool program initiated are as follows:

Clinical groups: Hearing impairment, mental retardation, and hearing disability

Age groups: 2 - 4 years and 4 -6 years

Languages: Kannada, Malayalam and English

Total duration: 4 hours daily

Table 7 gives the number of children who received help under the preschool training program. The objective of this program is to achieve successful integration of children in the normal school.

		Particulars	Total
Hearing-impaired	No. of groups		53
	Cases		242
	Sessions		1034
Mental Retardation	No. of groups		4
	Cases		20
	Sessions		78
Learning Disability	No. of groups		27
	Cases		97
	Sessions		566

Table 7: Particulars of group therapy sessions

Alternate and Augmentative Communication (AAC) Unit

A special unit for AAC was launched in January 2003. The objectives of the unit are to

- a) develop indigenous AAC systems and approaches to suit Indian population,
- b) devise and implement procedures applicable to the Indian population, and

- c) to plan outreach programs to cover special schools, rural set-ups and rehabilitation centers to implement AAC systems.

Preliminary work for establishing a database on instrumentation and man- power is in progress.

RESEARCH

AIISH has laid considerable emphasis on research and development work as key components of its activities. Research is carried out at several levels at the institute; projects by faculty funded from national funding agencies; doctoral work by students; and dissertations and independent projects carried out by postgraduate students.

Projects Completed

Associated Problems as a Basis for Subgrouping Disfluent Children

This project with Dr. Y. V. Geetha and Dr. M. Jayaram as investigators explored the possibility of subgrouping young disfluent children. A detailed battery of tests for evaluating language, articulation, reading and writing skills was administered for assessment of learning disability and aphasic features in stutterers. The results, along with family history and disfluency characteristics, were used to subgroup children with disfluency. Based on the analysis of results of the study, it was observed that there was no significant difference between the control group and stuttering children on any of the language measures assessed including DDK, oral motor skill, visual discrimination and copying skills. Significant group differences were noted for only articulation and auditory discrimination abilities. Children could not be grouped based on Daly's checklist for possible cluttering as an associated problem in stuttering.

Development of Intonation in Early Linguistic Stage

The project with Dr. R. Manjula as the investigator analyzed the developmental nature of intonation in infants from 0.4 to 1.0 years. Longitudinal speech samples of 14 children from the age of 0.4 months to 1.0 year were subjected to acoustic analysis. Quantitative and qualitative analysis of the frequency related features and intensity related features was undertaken.

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

The project with Dr. Asha Yathiraj as the investigator evaluated the efficacy of providing intensive auditory training therapy for children diagnosed to have auditory processing problems. The effect of therapy was evaluated using four tests. Following therapy, a significant improvement was noticed on all the tests. Interviews with parents and class teachers of children revealed that there was generalization of skills that were taught during therapy to home and school situations.

Incidence and Prevalence of Voice Disorder

This project, with Ms. M. Pushpavathi and Dr. M. Jayaram as investigators, is a retrospective study. Case history files of patients with voice disorders were reviewed for demographic information, etiological factors, and incidence and prevalence of voice disorders. The results indicated a high incidence of voice problems in school going children and professional voice users.

Investigations of Reading Skills in Children with Reading Disability - Indian Perspective

This project with Dr. K.S. Prema and Dr. M. Jayaram as investigators is a retrospective study on the relationship between demographic factors and reading skills in Indian children learning

to read and write English, an alphabetic language. The results did not indicate any significant relationship between demographic factors and reading skills. The data indicated that age is a crucial variable in reading, thus suggesting that reading is a developmental phenomenon. The study developed screening and clinical versions of the Early Reading Skills, a profile used for regular clinical purposes.

Noise Measurement in Power Stations of KPTCL

Noise measurement and orientation programs were conducted in the following four power stations of the Karnataka Power Corporation: Super Thermal Power Station, Raichur. Hydroelectric Power House KPCL, Ambikanagar, Nagjhari. Varahi Underground Power House, KPCL, Hosangadi PO, Kundapur Tq., Udupi. Dam Power House, Linganamakki. A report was prepared on noise levels at these power stations and whether or not they are within the permissible limits. Recommendations to reduce the impact of noise on hearing have also been made. In addition, officers of KPTCL were given orientation programs on prevention, early identification and management of hearing loss in industrial workers, as well as on ways of reducing noise and its impact in industrial working conditions.

Professional Services of AIISH Graduates: International Scenario

This project with Dr. M. Jayaram and Dr. S.R. Savithri as investigators is funded from the AIISH Research Fund. A list of AIISH graduates was prepared with the help of documents in the academic section. A questionnaire was prepared to obtain information on the professional placements of AIISH graduates. A 'yahoo group' was also opened for which AIISH graduates became members. Based on the information obtained, an address book for B.Sc and M.Sc graduates was prepared. The address book consisted of addresses of 509 M.Sc students and 698 B.Sc students.

Sensitivity and Specificity of Audiological Tests in Differential Diagnosis of Auditory Disorders

The investigators of this project are Dr. C.S. Vanaja and Dr. M. Jayaram. The aim of the project was to study the sensitivity and specificity of various audiological tests in differential diagnosis of auditory disorders and to study the factors that affect the sensitivity and specificity of these tests.

Voicing Contrast in Indian Languages: Acoustic Measurements

The investigators of this project are Dr. S.R. Savithri and Ms. N. Sreedevi. The project investigated voicing parameters of stop consonants in 16 Indian languages:- Punjabi, Kashmiri, Assamese, Hindi, Tulu, Kodava, Malayalam, Marathi, Tamil, Gujarathi, Kannada, Telugu, Oriya, Rajasthani, and Bengali. Specifically, seven acoustic parameters were measured to understand the voicing characteristics of these languages. VOT contrast in voicing in word-initial position was a significant parameter in most of the Dravidian and Indo-European languages. However, variations between languages were observed. In the word-medial position, the voicing contrast is by closure duration or total duration. In Tamil and Malayalam, the voiced and weakly voiced plosives were not contrasted by any of the parameters studied. In Hindi, the contrast was poor. In word-final position, preceding vowel duration appears to contrast voicing in Kashmiri, Bengali, Hindi and Marathi. In contrast to the finding in other non-Indian languages, vowel duration preceding unvoiced plosives was longer than those preceding voiced plosives in all Indo-European languages except Gujarati.

Ongoing Projects

Prevention of Deafness and Communication Disorders

This project, with Dr. M. Jayaram as chief coordinator and Dr. Asha Yathiraj and Dr. K.S. Prema as coordinators, is funded by

the Ministry of Health and Family Welfare. The main objective of the project is primary, secondary and tertiary prevention of communication disorders. The main activities included screening of infants and school children, material development, extension activities, and sensitization program for members of public and other professionals.

As in the previous years, many clinical as well as public education activities were carried out. The activities carried out under this program included -

- ❖ Screening of infants for hearing and speech problems
- ❖ Screening of school children for hearing loss and communication disorders
- ❖ Hearing conservation program for industrial workers
- ❖ Hearing screening of senior citizens
- ❖ Orientation programs for allied professionals and public
- ❖ Preparation and production of resource material

Screening Programs

Speech-language and hearing screening was carried out on infants at local hospitals, immunization centers and pulse polio centers. Speech and hearing screening was also done on school children, industrial workers and individuals attending the camps. Table 8 gives the summary of infant and school screening during the year.

Screening	Total screened	Total referred
Infant	3260	231
School	8894	710
Camps	4266	—

Table 8: Summary of infant and school screening

The following public education booklets and handbills were prepared:

- ❖ Booklet on Prevention of hearing loss in expectant mothers
- ❖ Booklet on Development of auditory behavior
- ❖ Handbill on signs and symptoms of hearing loss
- ❖ Handbill on early identification of hearing loss in infants
- ❖ Handout on communication disorders
- ❖ A checklist on normal speech and language development for the age group: birth to 5 years

Table 9 gives different groups, professionals and technicians who were given orientation lectures on the prevention, identification and management of speech-language and hearing impairment.

Target group	No.
Headmasters and Headmistresses	2789
Nursing trainees	401
Anganwadi workers	50
Hearing aid users	30
Industrial workers	80

School children	350
NSS Program officers	200
ENT doctors	4
RCI-PHC doctors	105
Parents of the deaf children	300
Block Resource Coordinators	19
B.Ed students	35
Field workers	7
Students of Special Education	13
Members of Arya Vyshya Mahila Samaja	60
ANMs	45
IED teachers	93
Preschool teachers	32
BEO's and BRPs	49
<hr/>	
Total	4662
<hr/>	

Table 9: Summary of orientation lectures given to different groups of professionals

Sensitization Program

Orientation lectures on the following topics were given to various professionals.

- Prevention, identification and management of communication disorders.
- Role of nurses, BEO's, BRP's, preschool teachers in early identification, prevention and management of communication disorders.
- Identification and management of children with learning disability.

A Health Mela was conducted in the KRN Assembly Constituency in Mysore city. As a part of this program, children studying in 27 schools falling under this constituency were screened for speech and hearing defects. A total of 3256 children were screened, out of which 946 children were referred for further audiological tests; 9 children for speech tests, and 1109 children for ENT evaluation. A comprehensive report was prepared and submitted to the sitting MLA of the constituency.

A Tachistoscopic study of Monolingual and Bilingual normals and aphasics

The investigators of this project are Dr. K. C. Shyamala and M.G. Suchitra. The study has been undertaken to explore the effect to hemispheric processing in bilingual normal adults and aphasics (in Kannada and English languages) and monolingual normal adults and aphasics. Data was collected from 50 monolinguals and 50 bilinguals. The stimuli were 3 lists of 20 pairs of words each in combinations -Kannada-Kannada, English-English and Kannada-English. The results are being analyzed. The results of this study will be of immense help for expansion and further refinement in assessment and management of monolingual and bilingual aphasics.

Aging and Pathological Correlates of Voice

The investigators of this project are Ms. M. Pushpavathi and Dr. M. Jayaram and is funded from AIISH Research Fund. This project aims at analyzing the acoustic parameters of normal and pathological voice using MDVP software. The study also aims to find the subtle voice changes seen across ages and to develop a library of normal and pathological voices.

Changes in Voice Attributes as a Function of Age in Singers

The investigators of this project are Ms. K. Yashoda & Dr. M. Jayaram. It is of interest to know the impact of age on the voice of

singers as they are trained to use the speech mechanism in a highly specialized manner. Also, a study in this direction would reveal whether the physiologically efficient voice which is the result of formal training delays the age related changes in voice or whether the singers are equipped with coping strategies to maintain their voice quality. Hence, the project is aimed at discerning the effects of age on voice in Indian Classical singers (both Hindustani and Carnatic). Review of literature is in progress.

Development of FM Hearing Aid System

This project with Dr. M. Jayaram as the principal investigator and Mr. Ajish K Abraham and Mr. S.R. Srinivas as coinvestigators is funded by the Ministry of Social Justice and Empowerment, Govt. of India. The objective of this project is to develop indigenous technology for FM hearing aid system. The transmitter and receiver units have been developed and tested satisfactorily. The transmitter covers a range of approximately 12 meters. The hearing aid works satisfactorily in FM mode, environmental mode and combined mode of operations. The AGC circuit for these modes has been developed. Miniaturization of the device and field trials are in progress.

Evaluation Battery for Central Auditory Processing Disorders in School Going Children

The aim of this project, with Dr. K. Rajalakshmi as the investigator is to develop an evaluation battery for central auditory processing disorders in school going children and also to find out prevalence and incidence of central auditory processing disorders in this population. This will help us in the early identification and management of central auditory processing disorders and also for suitable referral. Presently, a checklist is being prepared.

Personality Correlates of Voice Disorders

The investigators of this project are Dr. S. Venkatesan and

Ms. M. Pushpavathi. The project aims at finding out the personality problems associated with organic, functional and mutational voice disorders. The translation of sixteen psychological tests into Kannada language is completed.

Preliminary Investigation on Caregivers as Teachers for Kids with Developmental Disabilities (CATS for KIDDS)

The investigator of this project is Dr. Venkatesan. The role of family in upbringing children with disabilities is unequivocally acknowledged. This project attempts to investigate the efficacy of transmitting home based training programs for children with developmental disabilities by providing periodic guidance to parents or caregivers. A readymade inventory of activities for home training has been standardized as part of this project. A model training kit for use during home training program is also being developed. Parents/caregivers are being sensitized through clinical case demonstrations, training workshops, individual guidance and counseling techniques. The project is likely to come out with a clear understanding of the various factors that go into optimizing the role of parents in the rehabilitation of their children with developmental disabilities in Indian settings.

Relationship between Language, Reading and Mathematics - An Exploratory Study in Kannada

The investigators of this project are Dr. K. S. Prema and Dr. Ramaa. It is well known that arithmetic skills are dependent on language skills. The project aims at investigating the relationship between language reading and mathematics in 4th grade children studying in Kannada medium. Tests for reading, language and mathematics are developed and administered on 4th graders. Data analysis is under progress.

Standardization of Kannada Language Test (KLT) for Children

The investigators of this project are Dr. K.C. Shyamala, Ms. Vijayashree and Dr. M. Jayaram. Standardization of KLT for children has been taken up to establish normative scores based on collection of large-scale data on KLT. This will be useful in identifying children with language disorders. About 240 children in the age range of 3-7 years, with 60 children in each age group (3-4, 4-5, 5-6, 6-7 years) would be included in the study. This test is basically a tool available to the clinician for sampling some of child's behaviors in terms of different dimensions. It is an objective measure and aids the clinician in arriving at an accurate diagnosis and in successful rehabilitation of the client. At present data collection is in progress.

INFRASTRUCTURE

Therapy Clinic

A Therapy clinic has been catering to the needs of individuals, since its inception, with various types of communication disorders by providing speech and language therapy services. The clinic was managed under the Department of Speech Pathology over the years till May 2002, but since then, it is functioning as a coordinating center with a responsibility to widen the activities and services rendered to the needy patients. Therapy services were carried out in a 14 - room set up, but now, therapeutic activities are conducted in a 190 - room setup. The new set up houses all diagnostic and therapeutic services, including OPD's and services from a host of allied professionals under a common roof.

The new building was formally inaugurated by Sri Shatrughan Sinha, the then Hon'ble Minister for Health and Family Welfare, Government of India, on 25th January 2003. The building with an area of 66,000 sq. feet has 190 rooms with all kinds of laboratories,

therapy rooms, specialized consultations rooms (neurology, phonosurgery, etc) and OPDs. This facilitated providing the much-needed multi-disciplinary professional management, including physio and occupational therapy, all under one roof.

AIISH Sports Complex

Sports Complex - AIISH Gymkhana in the Panchavati complex was inaugurated by Sri M. Anantha Kumar, Hon'ble Minister for Urban Development and Poverty Alleviation, Govt. of India on 6.12.03. Mr. A. Ramadas, MLA, KR Constituency was the guest of honor. The sports center is a 15000 sq. ft. complex having facilities for shuttle badminton, table tennis, carom and also has a modern gymnasium. An open air amphitheatre has been developed taking advantage of the natural slope in the East-west direction. The badminton complex can also be used as a convention center with a seating capacity of 450.

The Gymkhana would be a platform for recreational, social and cultural activities for the members of the GYMKHANA. This will also foster, encourage, sustain and coordinate sports, art, cultural, and literary. The AIISH Gymkhana received a grant-in-aid of Rs.50,000/- from the institute for conducting various programs for the year 2002-03.

Central Prosthetic Laboratory

The existing earmold lab was expanded with latest state-of-art technology. The area of the lab was doubled. The new lab has infrastructure for making both hard and soft earmolds. We can produce nearly 100 molds a day at the new lab. Equipments worth Rs. 18 lakhs have been ordered for and are awaited.

Vehicle Parking

In the recent past, incoming patients has increased

substantially and the existing capacity of the parking shelter cannot cope up with the heavy vehicular traffic. In addition, the staff vehicle parking shelter is being mostly occupied by the outpatients. Hence, it is felt that parking shelters near Speech block and a general parking space besides the existing bus shelter was proposed. Total estimated cost would be around 8.00 lakhs. The shelter near speech block is completed during the year and the other is in progress.

Bore Wells

The present water supply was inadequate due to increase in infrastructure, in take of students and patients. Two more bore wells were provided in the main campus at a cost of Rs.75,000/- to meet our water requirements.

Preschool Center

A regular center for preschool training program for children with hearing impairment, mental retardation, and cerebral palsy was started in 2002-03. Sri Malaka Reddy, Hon'ble Minister for Medical Education, Government of Karnataka, laid the foundation stone for a new building with an area of 35,000 sft. in October 2002. The new building to house the preschool training programs will be ready by July 2003.

OTHERS

Annual Day

AIISH Annual Day was celebrated on 23.10.02. Dr. A. B. Malaka Reddy, Hon'ble Minister of Medical Education, Govt. of Karnataka was the Chief Guest. Speaking on the occasion he advised the students to help Government organizations to take services to everyone in the country. Sri Farruq Ameen, General Manager, BSNL, Mysore Telecom District, Mysore was the Guest of Honor.



Dr. M. Jayaram, Director, AIISH addressing the participants in a RCI conference at New Delhi



Sri Ananth Kumar, Hon'ble Minister for Urban Development and Poverty Alleviation, Government of India inaugurating the Hi-tech Audio Test Block. His worshipful Mayor T.B. Chikkanna and Sri A. Ramadas, MLA are seen next to him.



Sri Anantha Kumar, Hon'ble Minister going around the Audio Test Block



Sri Ananth Kumar, Hon'ble Minister for Urban Development and Poverty Alleviation, Government of India opening the new building of AIISH Sports Complex at the Panchavati campus

Ms. Sreevidya received Best *Clinician Award* and Ms. M.S. Savitha, mother of Aditya Datta received *Best Mother of the Year Award*. Felicitations to an outstanding person with speech and hearing disability was initiated for the first time. Mr. Tenny Thomas, a hearing impaired doing his Master's in Engineering was felicitated for his extraordinary performance. Staff of AIISH who retired during the year - Mrs. S. Sowmyamala and Mr. Thimmappa - were felicitated on the occasion. In recognition of the services to AIISH, 15 staff members who completed 25 years of service were felicitated. As a part of the annual function cultural and sports competitions for staff and students were held.

Naming

The main campus of the institute was named 'NAIMISHAM' meaning 'a place not visited by Kali (vice)' and the sports complex campus was named "PANCHAVATI". His worshipful Mayor of the City of Mysore Sri T.B. Chikkanna participated in the function.

AIISH Gymkhana

The following programs were conducted by AIISH Gymkhana during the year. AIISH Gymkhana is an association of all the staff and students of the institute.

Vidya Vikas program, wherein the children of staff members were given educational materials (school bags, books, etc.) was launched. In the initial year, the program was restricted to children studying up to 7th standard. A total of 34 children received the benefits.

AIISH Durbar 2003, an inter-collegiate cultural festival, was held for the first time during the year. It is hoped that the 2-day festival would be an annual feature in the coming years. AIISH Durbar is a platform for college students to showcase their cultural

talents. The competitions included half-an-hour variety program, painting, drawing, vegetable carving, fashion show, quiz, ek-minute and skit. The cultural and fine arts events at the festival witnessed intense competitions among students from a majority of colleges who participated. The event was attended by more than 6000 people.

Sri Kumara Bangarappa, Hon'ble Minister for Municipal and Town Panchayat and Dr. Vasundara Doraswamy, Director, Vasundara Performing Arts, Mysore inaugurated the program on 9th January 2003. Mr. Sandesh Nagaraj, Chairperson, MUDA, Mysore and Mr. Shivadwaj, Cine Artist were the chief guests at the valedictory function on 11th January 2003. Students from 19 colleges of Mysore participated in the festival. Mysore Medical College bagged the overall championship.

A Student Welfare Fund was launched to help students to meet their educational and medical needs. A fund was started with proceeds from AIISH Durbar and an initial contribution from the AIISH Gymkhana. Many students were helped to meet their medical and educational needs during the year. Students who receive educational aid are required to pay back the amount after they are employed. Repayment of medical aid received is only an option under the scheme.

A Library at AIISH Gymkhana was opened in the month of November 2002. A total of 13 magazines (4-monthly, 1-bimonthly, and 8-weekly) are being subscribed to the library. Members may contribute books to this library.

Talents Day for children of the members of AIISH Gymkhana was arranged on 23.8.2002. Mrs. Sujatha Jayaram, w/o Dr. M. Jayaram, Director, AIISH inaugurated the program. Thirty-two children participated in the program and exhibited their talents in singing, dance, fashion show, music, reciting and karate. Each participant was given a token prize of Rs.50/-.

Inter-institutional Sports Tournaments: An Inter-institutional sports tournament for Central Government employee's in the city of Mysore was organized in January 2003. A total of 200 sportspersons, representing 45 different Central Government organizations located in Mysore, participated in the tournament. Competitions were conducted in six events - cricket, badminton, chess, carom, table tennis and volleyball. Mr. M. K. Seetharam installed a trophy in memory of his father. CFTRI bagged the over all championship.

National Science Day

National Science Day was conducted on 28.2.2003. Mrs. Jayashree Shanbag, Director, AIR, Mysore inaugurated the program. The events of the program included the following:

- “ Release of a *science bulletin*
- “ *Puzzle solving* program for school children
- “ *Science quiz* for students conducted by I M Sc. students
- “ *General quiz* for staff conducted by POCD staff
- “ *Science treasure hunt* conducted by II M Sc. students
- “ *Science ek-minute* conducted by III B Sc. Students

28th February 2003 was also celebrated as '**Institute Open Day**'. More than 3000 members of the public visited the institute on that day and saw for themselves the activities of the institute.

A "**Puzzle Solving**" *competition* was arranged for high school children. One hundred and seventy one children from 14 schools participated in this event and solved puzzles on "*ear*" and "*speech mechanism*".

National Service Scheme

Ever since its introduction in the institute, the NSS unit is involved in social service activities. AIISH being a professional

training institute engaged in the promotion and maintenance of health in the community, the objectives of the NSS needs were tailored, according to the objectives and responsibilities of the institute without changing the motto of the NSS. A few innovative health programs were carried out this year by NSS along with other routine programs like talents day for the NSS volunteers, flower arrangement competition, maintenance of 147 teakwood plants in the campus, yoga training, health orientation programs for the NSS program officers, blood donation, speech and hearing camps, etc. The speech and hearing camps were conducted at Maharashtra. 864 patients were evaluated for speech and hearing problems and 168 hearing aids were distributed.

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 Development of auditory behaviour
- ❖ Handbill on signs and symptoms of hearing loss
- ❖ Handbill on early identification of hearing loss in infants
- ❖ Handout on communication disorders
- ❖ A checklist on normal speech and language development for the age group: birth to 5 years
- ❖ A checklist -"Check yourself" for communication disorders
- ❖ Bedside assessment for adult neurogenic disorders
- ❖ Pretest and posttest questionnaire on communication disorders
- ❖ Booklet on Preschool Training Program
- ❖ Booklet on Learning Disability
- ❖ Handbook on BTE hearing aid service
- ❖ Handbook on calibration

AIISH in Media

The mass communication media of the country (TV, Radio and newspapers) gave excellent coverage of the activities and programs of the institute during the year. The main events covered during 2002-03 in print and electronic media are listed below:

- ❖ An interview with the Director on Mysore Cable Network: an interaction program with the public - April 2002.
- ❖ Activities of AIISH by the Department of Publicity & Information, Government of Karnataka under their weekly program "Avalokana" - June 2002.
- ❖ An interview with the Director was carried by Times of India - June 2002.
- ❖ An article in Deccan Herald, a leading English daily, on the newly constructed therapy was published - June 2002.
- ❖ Doordarshan telecasted a live interview with the Director in their "Belagu" program - June 2002.
- ❖ Prajavani, a leading Kannada daily, published an article on the newly built "Sports Complex" - August 2002.
- ❖ Vijaya Karnatak, a leading Kannada daily, published an article on the institute, on the eve of 37th Anniversary of AIISH - October 2002.
- ❖ On the occasion of the completion of two years of office of the present Director, Deccan Herald published an interview with the Director in their Friday's special supplement "Spectrum" - October 2002.
- ❖ Siti Cable and UMN channels telecasted a 60-seconds

information feature on 'Noise pollution and crackers : Care to be taken' - November 2002.

- ❖ Prajanudi, a Kannada daily, published a lead article in its Sunday's Special on "AIISH Gymkhana - Sports Complex" - December 2002.

Apart from these, the media, both print and electronic, gave excellent coverage of the programs and activities of the institute (workshops, seminars etc) and also extensively covered the visit of VVIPs to the institute.

Official Language Implementation

Usage of Hindi in the administration of the institute is being progressively increased. It is now being used in the preparation of annual report, audited statement of accounts, performance budget and also in clinical services. The institute sponsored eight individuals to take different Hindi examination. Across-the-table Hindi Workshop on "Use of official language in day-to-day administration in R&I section" was conducted for two staff members in March 2003.

Fiscal matters

Grants received by the institute during 2002-03 from different sources as follows:

Grant in aid (Plan)	Rs. 700.00 lakhs
Grant in aid (Non-plan)	Rs. 210.00 lakhs
ADIP	Rs. 25.00 lakhs
Internal revenue	Rs. 88.93 lakhs
Total	Rs.1023.93 lakhs

Visitors

Sri Shatrughan Sinha, Union Minister for Health and Family Welfare inaugurated the "Therapy Clinic" on January 25th, 2003.

Sri. Ananth Kumar, Hon'ble Minister for Urban Development and Poverty Alleviation, Government of India inaugurated the AIISH Sports Complex and Audiology Block at Panchavati Campus on 6th December 2002.

Dr. A.B. Malaka Raddy, Minister for Medical Education, Government of Karnataka inaugurated the 37th Anniversary of the institute on 23rd October 2002.

Sri Kumara Bangarappa, Hon'ble Minister for Municipal and Town Panchayat, Government of Karnataka and Dr. Vasundara Doraswamy, Director, Vasundara Performing Arts, Mysore inaugurated AIISH Durbar 2003 on 9th January 2003.

Mr. Sandesh Nagaraj, Chairperson, MUDA, Mysore and Mr. Shivadwaj, Cine Artist were the chief guests at the valedictory function of AIISH Durbar on 11th January 2003.

Sri. N.K. Jain, Chief Justice of Karnataka High Court inaugurated a national seminar on "Policies for the Disabled" on 25th March 2003. Dr. J.P. Singh, Secretary of Rehabilitation Council of India (RCI) visited the institute and participated in the seminar.

Sri. S.K. Naik, Secretary, Department of Health, Ministry of Health and Family Welfare, Government of India visited AIISH from 13-14 November 2002. During his visit, he inaugurated the preschool training program, voice care center and the diploma course in Hearing Aid and Earmold Technology, and also released Research at AIISH - Dissertation abstracts - Volume 2.

Prof. S. N. Hegde, Vice Chancellor, University of Mysore and Dr. Uday Narayana Singh, Director, CIIL launched the Department of Speech-Language Sciences on 10th April 2002 and also inaugurated the national seminar on "Speech and language sciences: Current trends and future directions".

Mayor T.B. Chikkanna, the Worshipful Mayor of the City of Mysore formally inaugurated the main entrance of Naimisham campus of the institute on 19th September 2002.

Ms. Shobha Nambisan, Principal Secretary, Department of Women and Child Welfare, Govt. of Karnataka, Bangalore visited the institute in June 2002 and was appraised of the activities of the institute.

PUBLICATIONS

Jayaram, M. & Savithri, S.R. (2002). Research at AIISH : Dissertation Abstracts. Vol. 1. (Editors). AIISH: Mysore

Jayaram, M. & Savithri, S.R. (2002). Research at AIISH : Dissertation Abstracts. Vol. 2 (Editors). AIISH: Mysore

Jayaram, M. & Savithri, S.R. (2002). Research at AIISH : Dissertation Abstracts. Vol. 3 (Editors). AIISH: Mysore

Jayaram, M. & Savithri, S.R. (2002). Research at AIISH : Dissertation Abstracts. Vol. 4 (Editors). AIISH: Mysore

Dr. M. Jayaram
Director

DEPARTMENT OF AUDIOLOGY

Hearing is an extremely important sense. It is via this sense that we perceive speech and thus learn to communicate. In children a hearing impairment affects speech and language development, which in turn affects their educational, social and emotional life. In adults a hearing impairment can impair their ability to hear what is spoken to them as well as monitor their own speech. This in turn could affect their vocational placement. The department of audiology is providing state-of-the-art services in test facilities that are of international standards to cater to the listening needs of the hearing impaired. The services are unsurpassed by any other speech and hearing center in India.

During the year 2002-2003, the department pursued its objectives by (a) training postgraduate and undergraduate students in audiology and diploma students in earmold technology, (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 programs, public education programs and developing resource material and (e) providing extension services in collaboration with other agencies.

TEACHING AND TRAINING

For the first time in the history of AIISH, a new Diploma in Hearing Aid Repair and Earmold Technology was initiated during the academic year 2002-03. The department was entrusted with the responsibility of conducting this course initially with the Department of Electronics.

The diploma, undergraduate and post-graduate students were given 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 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 counseling the needy.

Short-term Training Programs

Information on the short-term training programs conducted at the department is given in Table1. These courses were conducted for speech and hearing and allied populations -

Title	No. conducted
Hearing evaluation	5
Hearing aids	5
Earmold	2
Total	12

Table 1: Hearing evaluation, hearing aids and earmolds

Orientation lectures on speech and hearing disorders were given to the PHC doctors as a part of the RCI program.

Ph.D Program

The following scholars were pursuing their Ph.D program at the department

Ms. K.J. Ramadevi Sreenivas : Phonological profile in

Kannada: A study on hearing impaired : Guide - Dr. C.S. Ramachandra, University of Mysore

Ms P. Manjula : Hearing aid selection using speech intelligibility index : Guide - Dr. Asha Yathiraj.

Ms. Divya Menon : Speech evoked mismatch negativity: An objective measure of auditory perceptual deficits : Guide - Dr. Asha Yathiraj.

Mr. Shivaprasad Reddy : MMN in sensori-neural hearing loss - A clinical measure of speech perception : Guide - Dr. Asha Yathiraj.

Mr. Ramanan, P : Training modules in Kannada for children with auditory processing disorders : Guide - Dr. Asha Yathiraj.

Mr. Animesh Barman : Psychoacoustical profile in normal individuals and individuals with auditory dyssynchrony : Guide - Dr. Asha Yathiraj.

Mr P. Sameer : Phonological processes in Malayalam speaking hearing-impaired children : Guide - Dr. K. C. Shyamala.

Dissertations and Independent Projects

During the year ten dissertations and twenty-six independent projects were completed under the supervision of the staff of the department. The titles are as follows:

Dissertations Submitted

Anitha T : Auditory learning manual for English speaking hearing-impaired children : Guide - Dr. Asha Yathiraj

Anu Priya Sethi : Hemisphere asymmetry of tone evoked P300 : Guide - Animesh Barman

Kavita E.M : A high frequency Kannada speech identification test for adults : Guide - Dr. Asha Yathiraj

Mukesh Tyagi : Auditory evoked potentials in children with history of otitis media with effusion : Guide - Dr. C.S. Vanaja

Nithya Balakrishnan : Noise induced vestibular dysfunction : Guide - Dr. K Rajalakshmi

Sabeena Kurian : Influence of speech-reader variables on speech-reading : Guide - Dr. Asha Yathiraj

Satish K: Hearing profile in orchestral performers : Guide - P. Manjula

Sharad Govil : Effect of age on contralateral suppression of OAEs and speech identification in noise : Guide - Dr..C. S Vanaja

Siddarth C.S : Aided speech recognition scores and psychophysical tuning curves in cochlear pathology cases : Guide - P. Manjula

Sreevidya B.A : MMN for duration deviance in normal children, adults and children with learning disorder : Guide - Dr. C.S. Vanaja

Independent Projects Submitted

Amala Agnes James : Comparison of two hearing aid selection procedure : Guide - Dr. K Rajalakshmi

Amit Gupta : Computer based interactive learning program on ABR : Guide - Dr.C.S Vanaja

Chandini Jain : Speech identification in adults: A comparison between computer and CD presentation : Guide - Dr. Asha Yathiraj

Chaya Devi, N : Hand out on the management of hyperacusis : Guide - Dr. K Rajalakshmi

Delcy Janet : Hand out for auditory management of auditory processing disorder : Guide - Dr. Asha Yathiraj

Gopi Shankar : Relationship between discrete stimuli and speech loudness discomfort levels among hearing aid users : Guide - Dr. K Rajalakshmi

Jayashree Shanbal : Self-report tinnitus handicap questionnaire : Guide - P. Manjula

Jessy George : Psychological tuning curve in middle ear pathology with 'A' type tympanogram : Guide - Animesh Barman

Komal Khanna : Comparison of functional gain and insertion gain in conductive hearing loss : Guide - Dr. K. Rajalakshmi

Kripal Singh : Effect of altitude calibration on results of Tympanometry : Guide - Dr. C.S Vanaja

Mamatha N.M : Relationship between discrete stimuli and speech loudness discomfort levels among hearing impaired subjects using different transducers : Guide - Dr. K Rajalakshmi

Mili C. Samuel : The long term average speech spectrum in Malayalam : Guide - Dr. Asha Yathiraj

Namratha Mudkatti : Psychological tuning curves in otitis media : Guide - Animesh Barman

Pawan Kumar : Efficacy of tutorial on pure tone Audiometry : Guide - Animesh Barman

Ponnumani : A tutorial on basics of Somasundran psychoacoustics : Guide - Animesh Barman

S. Rakhi Lakshmi : Management of noise induced hearing loss - A review : Guide - P. Manjula

K.H. Ramya : Speech identification in children: A comparison between computer and CD presentation : Guide - Dr. Asha Yathiraj

Ranganathan : Analysis of SNR of normal ABR : Guide - Dr. C.S Vanaja

Sandeep, M : Evaluating specificity of medial efferent fibres through contralateral suppression of OAEs : Guide - Animesh Barman

V. H. Savitha : Efficacy of extended high frequency audiometry and distortion product otoacoustic emissions as early identifiers of noise induced hearing loss : Guide - Dr. C.S Vanaja

Sethu Karthikeyan : Efficacy of tutorial on acoustic immittance measurements : Guide - Animesh Barman

Vani Rupela : Long term average speech spectrum in Hindi : Guide - P. Manjula

V.V.S. Sai Ram : Long term average speech spectrum in Kannada : Guide - P. Manjula

Vimi Mathew : A computer based question bank on otoacoustic emission : Guide - Dr. C.S Vanaja

Gurpreeth Kaur : Comparison of FM group hearing system with Conventional hearing aids using probe mic measurements : Guide - Dr. K Rajalakshmi

Mukundan S : Effect of length and diameter of the ear mold on the frequency response of the hearing aid : Guide - Dr. K Rajalakshmi

Further, nine dissertations and twenty-five independent projects were under progress under the supervision of the departmental staff. The titles are as follows:

Dissertations in Progress

Amit Gupta : Audiological profiling in adult aphasics : Guide - Dr. C.S.Vanaja

Chandini Jain : Effect of conductive mechanism on distortion product otoacoustic emissions : Guide - Animesh Barman

Gurpreet Kaur : MMN for duration deviance in children with S.L.I delayed speech and language development : Guide - Dr. Asha Yathiraj

Mamatha N.M : Effects of repetition rate on ABR in adults in elderly : Guide - Animesh Barman

Pawan Kumar Sah : Usefulness of transcranial CROS for clients with unilateral hearing loss : Guide - P. Manjula

Rakshi Lakshmi : Hormonal influence on auditory function : Guide - Animesh Barman

Sandeep M : Hemispheric asymmetry in mismatch negativity : Guide - Dr. C.S. Vanaja

Vimi Mathew : A probe into the subtle abnormalities in normal individuals with family history of hearing loss : Guide - Dr. CS Vajana

Delcy Janet : Effect of music training on auditory perceptual skills : Guide - Dr. Asha Yathiraj

Amala Agnes James : Auditory processing in children with history of otitis media : Guide - Dr. Asha Yathiraj

Independent Projects in Progress

Amita Koul : Effectiveness of DPOAE and TEOAE in hearing screening : Guide - Animesh Barman

Anita R : Effect of multitalker babble of different languages on the speech recognition in Kannada : Guide - P Manjula

Anjana B.R. : Assessment of brainstem dysfunction in individuals who stutter : Guide - Animesh Barman

Banumathy N : Effectiveness of environmental sound test in hearing aid selection for paediatric population : Guide - P Manjula

Binay K.C : Picture speech identification test for children in Hindi. Guide : Dr. Asha Yathiraj

Deepa D : A comparison of efficacy of 3 digital hearing aids with trimmer controls : Guide - Dr. K Rajalakshmi

Gauri Tamane : Development of norms on duration pattern test : Guide - P Manjula

Gopikrishnan : Hearing aid test protocol for sloping high frequency hearing loss : Guide - Dr. Asha Yathiraj

Moumita C : Normative data for children on dichotic CV test - Revised CD version : Guide - Dr. Asha Yathiraj

Peter Verghese : Contralateral suppression of DPOAE using different stimulus parameters : Guide - Animesh Barman

Poornima Ram : Audiology desk reference in India : Guide - Dr. K. Rajalakshmi

Richa Deshpande : Self-handicapped scale written vs. interview method : Guide - Dr. C.S Vanaja

Rigeshia : Effect of maturation on dichotic tests: A comparison of dichotic digit and dichotic CV : Guide - Dr. C.S Vanaja

Shreereen I : Real ear sound levels in vocal and instrumental musicians : Guide - P Manjula

Shilpashree H.N : Specificity of High Risk Register developed in India. Guide : Dr. Asha Yathiraj

Shivani Tiwari : Maturation of pitch pattern in children : Guide - Dr. C.S Vanaja

Shivaprakash : Gap detection test development of norms : Guide - P Manjula

Sindhuja : A comparative study on stress perception between programmable BTE users and analog BTE users : Guide - Dr. K. Rajalakshmi

Smeetha B : Comparison of SIS in the presence of noise using binaural binaural body level hearing aids : Guide - Dr. K. Rajalakshmi



Sri Ananth Kumar, Hon'ble Minister for Urban Development and Poverty Alleviation, Government of India inaugurating the AIISH Sports Complex by lighting the lamp



Sri Ananth Kumar, Hon'ble Minister releasing Volume-II of "Research at AIISH - Dissertation Abstracts"



A Panoramic view of the AIISH Sports Complex at Panchavati Campus



Amphi theatre at the AIISH Sports Complex

Sneha Jacob : Comparison of threshold based prescriptive formulae for non-linear hearing aids : Guide - Dr. K. Rajalakshmi

Sona, A.N : Review of literature on underwater hearing : Guide - P Manjula

Tanuja Jawale : Earmold materials : A Review : Guide - Dr. K. Rajalakshmi

Tenmozhi : Effect of noise in absolute and differential sensitivity : Guide - Animesh Barman

Vijayakumar : Sweep frequency tympanometry : Guide - Dr. C.S Vanaja

Vijayalakshmi C.S : A comparative study of the performance with conventional and analog a digital hearing aids with trimmer controls at different signal-to-noise ratios : Guide - Dr. K. Rajalakshmi

Workshops/Symposium Organized

Program/Target group	Month
Hearing aid users	23 May 2002
National Seminar on cochlear implants and middle ear implants	24 -25 Oct. 2002
Acoustics and assistive devices for Heads of institutions and teachers	25 -27 Nov. 2002
Needs of the hearing impaired children with additional handicaps	16 -18 Dec. 2002
Auditory evoked potential in evaluating infants and children	9 December 2002

Table 2 : Shows Workshops/seminars/CRE programs conducted by the department

CLINICAL SERVICES

Hearing Evaluation

The clinical services of the department have been extended to individuals aged one hour right up to 97 years. The services were offered to the poorest of the poor as well as the elite of the society. Table 3 shows the number of persons tested at the department.

A total of 20,530 individuals were evaluated/screened for their hearing problems. Of them 7557 cases were evaluated at AIISH and 12,973 evaluated/screened in outreach 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. Routine audiological evaluation included pure tone audiometry, speech audiometry and immittance evaluation. Measurement of auditory evoked potentials and otoacoustic emissions was carried out whenever indicated.

Total No. of cases evaluated/ screened	20,530
at AIISH	7,557
at outreach	12,973

Table 3 : Shows Summary of hearing evaluation/
screening during the year

Auditory Steady State Audiometry (ASSR) was conducted in the institute, after the purchase of the Audera from GSI. Thus, the institute is the first to conduct ASSR measurements on patients in the country.

Baseline and monitoring audiograms were obtained from employees of various industries/organizations. Of the 52 employees

evaluated, 4 were identified to have hearing loss. Detailed evaluation was also carried out for medico-legal patients and required certificates/reports were issued. The staffs of the department have also served as expert witness in the court.

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. Referral sources included ministers, schoolteachers, health workers, social workers, anganwadi workers and old patients of the institute

Hearing Aids

Rehabilitation through amplification devices is one of the major activities of the department. Hearing aid trial was done for 5251 individuals. Of them, 2370 were prescribed hearing aids. As with the previous year, a large number of patients requested for programmable and digital hearing aids. Also, there was a general downtrend in people wanting to go for assistive listening devices. This was probably due to the improved, quality of hearing aids available at affordable costs. This enabled the clients to use hearing aids even in situations where ALDs had to be used earlier.

839 (up to Sept. 2002) hearing aids were 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, 126 hearing aids were distributed to the hearing impaired. Counseling and hearing aid demonstration were carried out for the patients who have been issued or procured hearing aids. The use of communication strategies and speech reading, for individuals with speech identification problems, was recommended. It is summarized below.

Total no. of hearing aid trials done	Total no. of hearing aids prescribed	Hearing aids distributed under ADIP scheme	Hearing aids distributed thro' POD scheme
5251	2370	839	126

Table 4 : Shows the number of beneficiaries

Earmolds

During the year 2969 ear molds were made for 1663 patients. In addition, 336 earplugs were made to be used as "swimmers plugs" or as ear protective devices. The latter were used by industrial workers.

Listening Training Unit

Another first for the department of Audiology was the commencement of the listening training unit. Though listening training activities had been offered to cases prior to the launch of this unit, it was being done in a small scale. With the start of this unit on 1st January 2003, a total of 137 cases were provided listening training. Of these 131 were hearing impaired individuals using amplification devices, while the remaining six were individuals having auditory processing problems. These clients received a total of 368 sessions of therapy. This training enabled the individuals to make better use of their hearing abilities.

Extension Activities

The department continued its pursuit on early identification and rehabilitation of hearing impairment. With this in mind, clinical services have been extended to outreach centers. This has enabled a larger number of individuals benefiting from the services of the department at the doorstep. Infants and children have 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 a high-risk checklist, hand-held hearing screeners and calibrated noise- makers 3504 infants were screened in immunization centers. Of them, 137 infants were referred for further evaluation. Screening programs were also conducted in collaboration with Family Planning Association of India in rural areas. Visits were made to schools to identify children with speech and hearing problems. Of the 9469 school children screening for hearing problems, 1531 were referred for detailed evaluation at the institute. The service of an ENT specialist was made available during the extension activities. This has resulted in a large number of individuals being treated for middle/external ear problems. These screening programs served the dual purpose of education of the general public as well as identifying hearing problems. The staff of the department also participated in several camps, organized by Women and Child Welfare Department and DPEP, where the hearing handicapped were identified and certificates were issued. These were in addition to camps organized by other agencies.

Activity	No. screened/ tested	No. referred to AIISH
Infant screening	3504	137
School screening	9468	1531
Hearing conservation program	54	4
Camps	4110 (22 camps)	

Table 5 : Shows the number of cases screened

The data obtained in the project is being analyzed to note the most appropriate test protocol for evaluating individuals of various

age groups. The prevalence of different types of hearing impairment in school going children and industrial workers is being investigated.

Free Hearing Check-up Camps

The staff of the department participated in twenty-two speech and hearing camps (shown in Table 6)

Place of camp	No. of beneficiaries
Kollegal	078
Sultan Bathery	150
Manandavadi	368
Tithimathi	432
Kanakapura	370
Soraba	126
Karkala	149
K.R. Nagar	057
Hunsur	042
Manjeri	607
Maddur	146
Yelandur	039
Gundlupet	047
Chamarajanagar	057
Nanded	320
Akola	425
Nagpur	620
Nagamangala	032
Srirangapatna	057
Shimoga	126
K.R. Constituency	018
Total	4266

Table 6 : Shows the number of beneficiaries screened in the camps

RESEARCH

Projects Completed

Sensitivity and Specificity of Audiological Tests in Differential Diagnosis of Auditory Disorders

The investigators of this project are Dr. C.S. Vanaja and Dr. M. Jayaram. The aim of the project was to study the sensitivity and specificity of various audiological tests in differential diagnosis of auditory disorders and to study the factors that affect the sensitivity and specificity of these tests.

Projects Under Progress

Effect of Auditory Stimulation in Central Auditory Processing in Children with CAPD

The investigator of this project is Dr. Asha Yathiraj. The aim of the study was to evaluate the efficacy of providing the intensive auditory training therapy in children diagnosed as having an auditory processing problem. The effect of the therapy was evaluated using four tests. Following the therapy, there was a significant improvement noticed in the children for all the tests. The interview with the parents and the class teachers of the children revealed that there was a generalization of the skills that were taught during the therapy to the home and school situations.

Prevention of Deafness and Communication Disorders

This project, with Dr. M. Jayaram as chief coordinator and Dr. Asha Yathiraj as coordinator, is funded by the Ministry of Health and Family Welfare. The main objective of the project is primary, secondary and tertiary prevention of communication disorders. The main activities included screening of infants and school children,

material development, extension activities, and sensitization program for members of public and other professionals.

As in the previous years, many clinical as well as public education activities were carried out. The activities carried out under this program included:

- ❖ Screening of infants for hearing and speech problems
- ❖ Screening of school children for hearing loss and communication disorders
- ❖ Hearing conservation program for industrial workers
- ❖ Hearing screening of senior citizens
- ❖ Orientation programs for allied professionals and public
- ❖ Preparation and production of resource material

Health Mela

A Health Mela was organized in the K.R.Constituency as part of the POD program. 3256 children were screened in 27 schools, 946 children were referred to for further audiological evaluation and 1109 children were referred for ENT check up in this constituency.

Public Education Programme

- Three public education booklets and two handbills regarding prevention of hearing impairment that were processed for printing. These include the following:
 - a) Prevention of hearing loss in expectant mothers
 - b) Development of auditory behaviour
 - c) Signs and symptoms of hearing loss in school children
 - d) Early identification of hearing loss in infants
- Public education pamphlets and posters were distributed in camps, extension services and during educational tour.

- 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	No. of participants
Heads of schools and teachers	2789
Nursing trainees	401
Anganwadi workers	50
Hearing aid users	30
Industrial workers	80
High school	350
NSS program officers	200
ENT doctors	4
RCI-PHC doctors	105
Parents of the deaf children	300
Block Resource Coordinators	19
B.Ed., students	35
Field workers	7
Students of Special Education	13
Members of Arya Vyshaya Mahila Samaja	60
ANMS	45

Table 7 : Summary of Groups participated in the Orientation Lectures

Noise Survey

For the first time noise measurements were carried out by the staff of the department in four different KPCL power stations. A report on the measurement was prepared and submitted. In addition to this, the officers at KPCL were given orientation on prevention, early identification and management of hearing impairment.

Noise measurement and orientation programs were conducted in the following four Karnataka Power Corporation Limited -

- ❖ Super Thermal Power Station, Raichur
- ❖ Hydroelectric Power House, KPCL, Ambika Nagar, Nagjihari (Via Dandeli)
- ❖ Varahi Underground Power House, KPCL, Hosangadi PO, Kundapur Tq, Udupi District.
- ❖ Dam Power House, Linganamakki.

Following the noise measurements a report was prepared giving details regarding whether the noise levels were within the permissible limits or not. Recommendations to reduce the impact of noise on hearing were suggested.

OTHERS

Honours

- ❖ Delcy, J., Vimi, M. & Vanaja C.S. : DPOAE in different clinical condition. Won the Muktesh award in Audiology for the best paper.
- ❖ Vanaja C.S. & Ajith Kumar U : Paediatric auditory evaluation: Usefulness of physiological and behavioral measures (poster presentation). Won the award in Audiology for the best poster paper.
- ❖ Yathiraj, A and Mascarenhans, K.E : Audiological profile of children with suspected auditory processing disorders. Won the Dayalan Samuel award for best paper in Audiology.
- ❖ Dr. Asha Yathiraj was nominated as the Editor, Journal of ISHA.

Papers presented at Workshops/Seminars

The following papers were presented by the staff of the department at the 35th Conference of ISHA held at Chennai in January 2003.

- ❖ Amit Gupta. & Animesh Barman. Effect of hormones on TEOAEs amplitude.
- ❖ Bhuvaneshwari B., Deema Johnson & Yathiraj, A. Language training methods for the deaf, and the deaf-blind - A comparison.
- ❖ Delcy, J., Vimi, M. & Vanaja C.S. DPOAE in different clinical condition.
- ❖ Hari Prakash, P., Narang. S. & Vanaja C.S. Binaural interaction in children with learning disorder.
- ❖ Komal Khanna, Pawan Kumar Sah & Yathiraj, A. Benefit of hearing aid in the non-implanted ear in a child with cochlear implant (Poster presentation).
- ❖ Meenakshi Verma. & Animesh Barman. Importance of audiometer version of Weber test in clinical practice: A few case reports (Poster presentation).
- ❖ Mili, C.S., Sairam, V.V.S., Rupela, V., Yathiraj, A., & Manjula, P. Comparison of the LTAS across three Indian languages.
- ❖ Sandeep, M. & Animesh Barman. Contralateral suppression of TEOAEs: A tool to identify the distribution of efferent auditory nerve fibers to cochlea.
- ❖ Siddartha, C.S. & Manjula, P. Aided speech recognition scores and psychophysical tuning curves in cochlear pathology cases.
- ❖ Srividya, B.A. & Vanaja, C.S. Developmental changes in duration discrimination: An investigation using MMN (poster presentation).

- ❖ Vanaja C.S. & Ajith Kumar U Paediatric auditory evaluation: Usefulness of physiological and behavioral measures (Poster presentation).
- ❖ Vimi, M., Delcy, J. & Vanaja, C.S. Effect of fever on DPOAEs.
- ❖ Yathiraj, A and Mascarenhans, K.E, Audiological profile of children with suspected auditory processing disorders.

The following papers were presented by the staff of the department in various Workshops/Seminars:

- ❖ Vanaja C.S. & Manjula P. LLR as a measure for benefit derived from hearing devices at the National seminar on Auditory Neuropathy held at NIMHANS, Bangalore in August 2002.
- ❖ Yathiraj, A, PW Act - Hearing Impaired at the RCI-CRE program on Policies for the Disabled Act held at Mysore in March 2003.
- ❖ Yathiraj, A. Speech perception and hearing impaired children at the International Short-course on Auditory Verbal Education, Clarke School for the Deaf and Mentally Retarded held at Chennai.
- ❖ Vanaja C.S. Audiometry and immittance evaluation: Need for calibrated instruments at the Workshop on Calibration of Audiometers and immittance meters held at Mysore in December 2002.
- ❖ Vanaja, C.S. AEPs in diagnosis of degree, configuration and type of hearing loss in children at the Symposium on AEP in evaluating infants and children held at Mysore in December 2002.

- ❖ Ramadevi Sreenivas, K.J. Phoneme tapping in hearing impaired: Effect of stimulus mode in ICCONS-2 held at Cochin in December 2002.
- ❖ Ramadevi Sreenivas, K.J. Phonological processes in hearing impaired children in ICOSAL-4 held at Annamalai Nagar in December 2002.

Equipment Procured

Orbiter 922 with standard accessories
 Hydraulic press -flask press
 Laboratory micro motor with foot control and stand
 Heavy-duty lab micro motor
 Pentium computers
 Software for audiolab
 Multimedia projector

PUBLICATIONS

Arora, K. & Barman, A. (2002). Can SOAE be a tool to identify a person who is susceptible to NIHL? *Journal of Indian Speech and Hearing Association*, 16, 31-35.

Kaveri, P. & Vanaja, C.S. (2002). Tone-burst Auditory brainstem response in subjects with sloping SN hearing loss. *Journal of Indian Speech and Hearing Association* 16, 21-30.

Krishna, G. & Yathiraj, A. (2002). Dichotic CV Test - Oral Vs Visual Identification Response. *Journal of Indian Speech and Hearing Association*. 16, 17-20.

Kumar, A. & Barman, A. (2002). Effect of efferent-induced changes on acoustic reflex. *International Journal of Audiology*, 41:144-147.

Manjula, P, Jayaprakash, E & Jayaram, M. (2002). Hearing screening in school-going children. Journal of Indian Speech and Hearing Association, 16, 40-46.

Rodrigues, J., Pai K.R.& Rajalakshmi K. Digital signal processing in hearing aids Proceedings of the 8th National technical session of MIRC-ASA at Chennai, 2002.

Yathiraj, A., Sameer, P. & Jayaram, M. (2002). Infant hearing screening - A comparison of different techniques. Journal of Indian Speech and Hearing Association, 16, 1-4.

DEPARTMENT OF CLINICAL PSYCHOLOGY

The Department of Clinical Psychology is primarily concerned with psychosocial aspects of communication disorders either from the standpoint of research, training and/or clinical practice.

TEACHING & TRAINING

The theoretical and practical training of 99 B.Sc and 46 M.Sc students in clinical psychology was carried out as per course curriculum and their training schedule.

The students posted to the Department were trained in case history taking, 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 have also received training in Behaviour 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 givers.

Ph.D Program

The following scholars were pursuing their Ph.D program at the department.

Mr H H Raju : Study of job satisfaction in relation to occupational stress, and quality of life of employees in public and private sectors. Guide : Dr. Jyothi S Madgoankar

Mr Venkateshaiah : Prowda shala SC/SC vidyarthigala, buddishakthi, srujanasheelathe hagu shikshanika sadaneya ondu Adhyayana. Guide : of Dr. P. Kalaiah.

Mr Jayaraju, R : Karnataka rajyada vivida karagruhagalalli eruva angavikala aparadhigala maanasika samasyegala ondu samagra adhyayana. Guide : Dr. P Kalaiah.

Mr Jagadish : The impact of parental attitude on temperament, adjustment and social maturity in hearing handicapped children. Guide : Dr. P. Kalaiah.

Program/Target group	No. of Participants	Month
Training the parents in the management of children with mental retardation and behaviour problems for special educators and rehabilitation psychologists	21	29-31 July 2002
Assisting children with learning disability for special educators	35	8-9 August 2002

Table 1 : Shows the workshops organised by the Department

CLINICAL SERVICES

The department has provided following clinical services for cases registered at the institute.

Diagnostic Services

All the cases registered at the institute have undergone routine psychometry for differential diagnosis. Pre-vocational assessment was carried out for adolescents and adults with communication disorders. Neuropsychological evaluations were conducted for individuals with neurolinguistic/communication problems. Psycho-educational achievement testing and grade level assessments were done for children with scholastic backwardness and academic under



Sri S.K. Naik, Secretary, Department of Health, Government of India
inaugurating the new Central Prosthetic Lab



Sri S. K. Naik, Secretary, Department of Health evaluating the quality of speech
output from the hearing aid at the Preschool Center



Sri S. K. Naik, Secretary being explained by Dr. M. Jayaram, Director on the use of Artificial Larynx used by patients who have undergone laryngectomy for cancer of Larynx



Sri S.K. Naik, Secretary interacting with the media during his visit to AIISH

achievement. Behaviour assessment was carried out for children with problem behaviors/skill deficits. Family assessment was done on specific cases requiring family intervention programs. Table 2 shows the summary of clinical services provided during the year:

New case	3070
Re-evaluation cases	269
Total no. of Hindi cases	292
Aphasia	16
Articulation disorders	128
Autistic disorders	14
Cerebral Palsy	25
Functional dysphonia	13
Hearing Loss	958
Mental retardation	1054
Normal non-fluency	23
Specific learning disabilities	136
Speech & language disorders	530
Stuttering	346
Voice disorders	44
Others	52

Table 2: Summary of clinical services provided to cases.

Therapeutic Services

Therapeutic services are routinely provided for cases with various types of communication disorders. Home based and clinic based remedial educational training programs were provided for children with scholastic backwardness. Appropriate individual as well as family guidance and counseling were also carried out for these cases as and when necessary. Preadolescent and adolescent individuals with disabilities were given pre-vocational and vocational guidance after appropriate aptitude testing. Neuro-

psychological retraining programs including attention retraining, memory training or allied cognitive training programme were dispensed for individuals with neurolinguistic/communication problems. Individualized behavioural counseling, therapy and modification programs were carried out in clinics as well as home setting for cases reporting behaviour problems. Skill training programs on activities of daily living, functional academics, functional living skills, social or communicative skills were given for cases showing skills deficits behaviors. Details are given in Table 3.

Type of therapy	No. of cases sessions	No. of
Behaviour therapy	136	592
Behaviour modification	103	734
Home based training Program for MR/SLD	446	758
Remedial training for SLD cases	125	512
Intensive parent counseling program	248	75
Neuropsychological re-training program	15	43
Vocational guidance	24	50
Total	924	2937

Table 3 : Summary of therapeutic services provided.

Benefits and Concessions

All eligible and deserving cases were issued appropriate certificates stating the nature and extent of their disability. The

various concessions and social/economic benefits including certificates for financial assistance, travel concessions, income tax rebates, special school admissions, exemptions from second language study in school, LIC/UTI schemes etc. Further, psychological reports were issued on request from professional peers, for academic and administrative purposes. Reports were provided for medico-legal cases and expert opinion was also provided during their court proceedings as detailed below.

M.R certificates for financial assistance	597
Railway concessions for M.R	157
Income tax Rebate for parents of M.R.	72
Psychological reports for special school admissions	142
Certificate for language exemption for special children	84
LIC/UTI deposits for MR persons	61

Table 4 : Summary of benefits and concessions provided

RESEARCH

Projects Under Progress

Personality Correlates of Voice Disorders

This project with Dr. S. Venkatesan and Mrs. M. Pushpavathi as investigators, is funded from the AIISH Research Fund. The Project aims at finding out the personality problems associated with voice disorders in organic, functional and mutational voice disorders. The translation of sixteen psychological tests into Kannada Language is completed.

Care Givers as Teachers for Kids with Developmental Disabilities

This project with Dr. S. Venkatesan as investigator is funded from the AIISH Research Fund. The role of family in upbringing children with disabilities is unequivocally acknowledged. This project attempts to investigate the efficacy of transmitting home based training programs for children with developmental disabilities by providing periodic guidance to parents or caregivers. As part of this project, a readymade inventory of activities for home training has been standardized. A model training kit for use during the home training program is also being developed. Parents/caregivers are being sensitized through clinical case demonstrations, training workshops, individual guidance and counseling techniques. The project is likely to come out with a clear understanding of the various factors that go into optimizing the role of parents in the rehabilitation of their children with developmental disabilities in Indian settings.

OTHERS

Papers Presented at Workshops/Seminars

The following papers were presented by the staff of the department.

- ❖ S. Venkatesan. Legal initiatives for persons with disabilities in India: Contemporary trends, problems and issues at the National Seminar on Policies for Disabled in India held at Mysore in March 2003.
- ❖ S. Venkatesan. Cognitive and psychological needs of the hearing handicaps at the RCI-CRE program for Special Educators on needs of the hearing impaired children with additional handicaps held at Mysore in December 2002.

PUBLICATIONS

Venkatesan, S. (2002). Reappraisal of Bombay-Karnataka version of Binet Simon Intelligence Scales (1964). *Indian Journal of Clinical Psychology* 29-1, 72-78.

Venkatesan, S. (2002). Government Initiatives for Persons with Disabilities in India: Some Contemporary Trends, Problems & Issues. *Social Change*. Sept-Dec. 32.3 & 4, 151-180.

Venkatesan, S. (2002). A manual for Parental Attitude Scale towards Pre-school education. Published by Vedanta Publication, Lucknow.

DEPARTMENT OF ELECTRONICS

The department of Electronics continued to pursue its objectives of (a) training postgraduate students in applied electronics and acoustics and diploma students in hearing aid repairs and electronic circuits, (b) repair and servicing of all biomedical instruments, computers, (c) management and maintenance of a network with 128 nodes and 3 servers, (d) issue of hearing aids under the ADIP scheme, (e) repair and servicing of body worn and BTE hearing aids, (f) maintenance and repair of electrical installations, EPABX & telephone network, (g) calibration of diagnostic equipments and acoustic measurements, and (h) indigenous technology development.

Major Achievements

- ❖ Established a modern "Hearing Aid Repair Lab" with state of art equipments.
- ❖ Installation of a 200 KVA automatic generator system for the Naimisham campus with acoustic enclosures.
- ❖ Work on "Computerization of AIISH activities" has been started and is being implemented in phases.
- ❖ AIISH Website - www.aiishmysore.com launched.

TEACHING AND TRAINING

The postgraduate students were given theoretical and practical training in applied electronics and acoustics. The institute has started a one-year Diploma course in "Hearing Aid & Earmold Technology". Diploma students were given practical and theoretical training in technology and repair of hearing aids.

Short-term Training Programs

Table 1 shows the number of short term training programs

conducted for the speech and hearing professionals, biomedical engineers and technicians.

Title	No.
Repair and servicing of body worn hearing aids	3
Repair and servicing of BTE hearing aids	2
Biomedical instrumentation in speech and hearing	1

Table 1: Number of short-term training program conducted

Apprentice Training

The department got accredited as a National Apprentice Training Center by the Board of Apprenticeship Training (Ministry of HRD, Govt. of India). Under this scheme, one graduate engineer in Electronics and Communication Engineering, and one diploma holder in Electronics Engineering were trained as apprentices this year.

Project Work of B.E students

The department has been identified by VTU, Belgaum as a center for final semester project work of B.E students. Accordingly, one batch of students from each of the following institutions is doing their project work in the department:

- ❖ National Institute of Engineering, Mysore
- ❖ Vidya Vikas Institute of Engineering and Technology, Mysore
- ❖ Vidya Vardhaka College of Engineering, Mysore
- ❖ Adi Chunchangiri Institute of Engineering and Technology, Bangalore.

Workshops Conducted

Table 2 below shows the theme on which workshops were conducted by the department, type and member of professionals trained in these workshops.

Title	No. of participants	Target group
Repair BTE hearing aids	15	Scientists, Engineers, Audiologists
Camp for free repair of hearing aids	172	Hearing aid users
Calibration of audiometers and immittance meters	10	Biomedical Engineers

Table 2: Theme of workshop conducted and target group

MAINTENANCE AND DEVELOPMENT OF SERVICES

Hearing Aid Issue

Department of Electronics is managing the issue of free hearing aids and solar battery chargers under the ADIP scheme of the Ministry of Social Justice and Empowerment, Government of India, to the eligible hearing impaired. In the report year, the department distributed 1789 hearing aids out of which 1188 were distributed at the institute and 601 were distributed in the speech and hearing camps conducted at various places in South India and Maharashtra.

Hearing Aid Repairs

Hearing aid repairs are another major activity of the department. The department undertakes repairs of both body level and BTE hearing aids at a nominal cost. Table 3 shows the number of hearing aids repaired in the department.

Type of Hearing Aid	Number
Body level hearing aids	799
Behind-the-ear hearing aids	95

Table 3: Number of hearing aids repaired during the year

Calibration, Repair and Servicing of Biomedical Instruments and Computers

Repair and maintenance of equipment at the different laboratories and department of the institute is one of the major activities of the department of the institute is one of the major activities of the department. Table 4 shows the number of instruments includes repair work done for equipment received from this institution.

Title	Quantity
Instruments repaired	289
Instruments and systems calibrated	19
Computers and peripherals repaired	225

Table 4: Number of instruments repairs during the year

Repair and Maintenance of Electrical Installations

The department is maintaining the electrical network of Naimisham and Panchavati campuses. All major electrical installations such as HT yard, centralized AC plant, lifts, automatic generator system, motors and pumps etc, are maintained by the department. The department completed 176 major repair works and 56 minor repair works related to electrical maintenance during the year.

Acoustic Noise Measurement

The department has got state-of-the-art equipments and expertise for acoustic noise measurement. The department has carried out 4 external consultancy services for noise measurement of dot matrix printers of Wipro peripherals. The department also took part in the project on "Noise measurement of power stations" at the following places:

- ❖ Nagajhari Hydro Electric Power station (NHPS) at Ambikanagar.
- ❖ Linganamakki Power station at Jog
- ❖ Varaahi Hydro Electric Power station at Hosangadi, Kundapur Tq.
- ❖ Raichur Thermal Power station at Raichur

Major Works Completed

- ❖ Electrification, telephone cabling and networking of Therapy Clinic.
- ❖ Telephone and network cabling work at AIISH quarters.
- ❖ Installation and commissioning of 200 KVA Generator system with AMF panel along with sound proofing and double busbar system.
- ❖ Indigenous development of S-indicator.

Major Ongoing Works

- ❖ Computerization of AIISH activities.
- ❖ Electrification of new pre-school building.
- ❖ Networking & Telephone cabling of new pre-school building.

RESEARCH

Projects Completed

Development of S-Indicator

S-Indicator is an instrument which gives a visual indication of /s/ & /sh/ sounds. The complete hardware has been developed indigenously and the clinical trials have been satisfactorily completed.

Projects Under Progress

Development of FM Hearing Aid System

This project with Dr. M. Jayaram as the principal investigator and Mr. Ajish K Abraham and Mr. S.R. Srinivas as coinvestigators is funded by the Ministry of Social Justice and Empowerment, Govt. of India. The objective of this project is to develop indigenous technology for FM hearing aid system. The transmitter and receiver units have been developed and tested satisfactorily. The transmitter covers a range of 12 meters approximately. The hearing aid works satisfactorily in FM mode. Work is going on to incorporate environmental mode and combined mode of operations. The AGC circuit for these modes has been developed.

Development of Electroglottograph

Electroglottograph is extensively used in speech diagnosis and

in vocal therapy. It analyzes the vocal cord behaviour during voice production. The vocal fold movements are tracked by applying a small electric instrument through electrodes placed on the alae of the thyroid cartilage. The signal generation and first stage of processing circuits have been developed. Development of circuits for further signal processing is going on.

Development of TV Listening Aid for Hearing Impaired

It is difficult for a hearing impaired person to use his personal hearing aid to listen television programs. A wireless infrared amplification device is a better choice, as it will not produce acoustic feedback. Development of basic electronic circuits for this device is going on.

OTHERS

Equipments Procured

FONIX FP 40 Hearing Aid Analyzer	1
Aplab AM / FM signal generator	1
Aplab 60 MHz Dual channel oscilloscope	1
Aplab Multioutput D.C. power supply	1
Aplab LCR tester	1

PUBLICATIONS

- ❖ Ajish K Abraham, Seetharam, M.K., Chudamani, B.R., Srinivasa, S.R. & Balasubramanya, B.N. BTE hearing Aid Service Handbook, AIISH: Mysore, 2002
- ❖ Vanaja, C.S., Ajish K Abraham, Seetharam, M.K., Chudamani, B.R., Srinivasa, S.R., & Balasubramanya, B.N. Handbook on Calibration, AIISH: Mysore 2002

DEPARTMENT OF ENT

The Department of Otorhinolaryngology is well equipped and provides specialized clinical services to persons with speech and hearing disorders.

TEACHING AND TRAINING

Students of the institute are being trained by way of clinical conference. The students are being exposed to clinical aspects of the diseases leading to speech and hearing defects.

CLINICAL SERVICES

Diseases of ear, nose and throat are diagnosed using modern equipment like surgical microscope, endoscope and ENG etc. Minor procedures like suction clearance of ear discharge, removal of foreign bodies, removal of wax etc. was regularly conducted. The department of ENT is running a separate unit (ENT 'D') at K.R. Hospital with access to operation theatre and in-patient units. Major as well as minor operations are done at K.R. Hospital. Table 1 gives statistics pertaining to patients seen.

No. of cases seen at AIISH	21,392
No. of cases seen at K.R.Hospital	14,494
Major operations performed	280
Minor operations performed	47

Table 1: Patient particulars.

Major surgeries performed during the year included mastoidectomy, tympanoplasty, and microlaryngeal surgery among others. Minors surgeries included, among others, myringotomy grommet, aural polypectomy, tongue tie release etc.

RESEARCH

Projects Under Progress

Comparison of Effect of Various Drugs in the Treatment of Tinnitus

The study aims at comparing the effects of various groups of drugs in alleviating the most distressing symptom of tinnitus without compromising the auditory ability. The study intends to evaluate 200 patients in the age group of 20-60 years with no organic pathology in the ear. A detailed audiological evaluation is done prior to the administration of drugs. The drugs intended to be used are aminoglycosides, peripheral vasodilators, benzo diazepenes, tricyclic antidepressants, systemic vasodilators, and nicotine. A drug protocol is maintained after which the patient is subjected to audiological evaluation. The outcome of this study is to know the most effective drug which promises long term relief of the symptom without compromising auditory ability.

Comparative Study of Operating Techniques in the Treatment of Otosclerosis (Small Fenestra Stapedectomy Vs. Stapedectomy)

The study aims at judging a better operating technique in the treatment of otosclerosis. The study involves collection of data of 50 cases of established otosclerosis who subject themselves to surgery. Since it is a bilateral lesion, two different treatment techniques in the two ears will be performed, on identical lesions, in the same individual. The outcome would be to know the success rates of each technique. Data collection on 15 subjects is completed and further data collection is in progress.

Chemical Cauterization for Small Central Perforation

The aim of this study is to evaluate the patients who could be treated conservatively for perforations of tympanic membrane. Patients with small central perforations (perforation confined to one

quadrant only) were evaluated for hearing prior to, and after surgery. The procedure involves the use of silver nitrate for introduction myringoplasty. The outcome of this study helps in evaluating the size of the perforation, which would respond to induction myringoplasty.

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 programs, public education programs 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 Programs

Information on the short-term training programs conducted at the department is given Table 1. These courses were conducted for speech and hearing and allied populations-

Title	No. of programs
Speech and language development in the hearing-impaired	1
Speech and language Disorders	1
Cleft palate & laryngectomy	1

Table 1: Details of short-term training programs



Dr A.B. Malaka Raddy, Hon'ble Minister for Medical Education, Government of Karnataka laying the foundation stone for Preschool Training Centre



Mrs S. Sowmya Mala, Clinical Assistant, Audiology is being honoured on her retirement by Dr. A.B. Malaka Raddy, Hon'ble Minister for Medical Education, Government of Karnataka during institute anniversary



Colourful cultural program by students marked the celebration of 37th Anniversary of AIISH on 10th October 2002



A scene enacted by Therapy Children of AIISH in connection with the Annual Day of the institute

Ph.D Program

The following scholars were pursuing their Ph. D at the department.

Philomena Joseph : Written syntactic deficits in hearing impaired : Guide - Dr. K.C.Shyamala (Ph.D awarded)

Swapna Sebastian : Comparison of language skills in normal children and children with language disability and learning disability : Guide - Dr. K.C.Shyamala

Satyapal Puri Goswami : Comprehension deficits in aphasics : Guide - Dr. K.C.Shyamala.

Sapna Bhat : Code switching and code mixing in bilingual aphasics : Guide - Dr. K.C.Shyamala

Sameer, P : Development of phonological processes in normal and hearing impaired children : Guide - Dr. K.C.Shyamala

V.P. Vandana : Speech dimension in dysarthria with lesions in different cerebellar loci : Guide - Dr. R. Manjula

Gowri Shankar Patil : Aspects of stress and intonation in the speech of Broca's aphasics : Guide - Dr. R. Manjula

Dissertations

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

Dissertations Submitted

Aditi Chakravarti : Autism spectrum disorders: A diagnostic scale for SLPS : Guide - K. C. Shyamala

Anna Shiam & Kattapuram : Autistic spectrum disorders - A speech language pathologist's resource of guidelines for language and communication : Guide - Dr. K. C.Shyamala

CLINICAL SERVICES

Clinical services were provided to the cases with speech and language disorders both in the diagnostic section and in the therapy clinic. Case history of 3,161 patients was taken in the diagnostics during the year. Speech valuation was done for 3,265 cases with various types of communication disorders. The needy patients were sent to the therapy clinic for speech/language therapy.

No. of case history taken in diagnostics	3,161
No. of patients evaluated for speech and language disorders	3,265
Follow up cases: Speech and language evaluation	437

Table 1 : Summary of cases with speech and language disorders

The prosthodontic technician under the guidance of a speech-language pathologist and plastic surgeon provided the following services in the year 2002-03:

Particulars	No. of Cases
No. of cases seen by the visiting dentist	130
Total No. of speech obtulators prepared	23
Total No. of study model prepared	10
Total No. of sessions taken for preparation of speech bulb prosthesis	41
Total No. of sessions taken for preparation of Speech obtulators	06

Table 2 : Shows patient particulars

RESEARCH

Projects Completed

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

The project with Dr. K.C. Shyamala as principal investigator and Dr. Basanti Devi as investigator is funded by ICSSR, New Delhi. This project investigated the developmental milestones of language acquisition in two languages viz. Kannada and Hindi. Samples of altogether 80 children i.e., 40 in each language were studied. It was a longitudinal study from birth till 5 years of age. This period of 5 years was divided into 10 stages at 6 monthly intervals. The study was able to identify developmental schedules of different linguistic categories for both the languages.

Development of Intonation in early Linguistic Stage

This project with Dr. R. Manjula as investigator, is funded from the AIISH Research Fund. The project is aimed to study the developmental nature of intonation in infants from 0.4 to 1.0 years. Longitudinal speech samples of 14 children from the age of 0.4 months to 1.0 year was subjected to acoustic analysis. Quantitative and qualitative analysis of the frequency related features and intensity related features were undertaken.

Incidence and Prevalence of Voice Disorder

The project with Dr. M. Jayaram and Mrs. M. Pushpavathi as investigators, is funded from the AIISH Research Fund. This is a retrospective study in which the case files with voice disorders were reviewed for the demographic information, etiological factors and the incidence and prevalence of voice disorder among various professions, across sex and voice problems in school going children.

Projects Under Progress

A Tachistoscopic Study of Monolingual and Bilingual Normals and Aphasics

This project with Dr. K. C. Shyamala as principal investigator and Mrs. M.G. Suchitra as investigator, is funded from the AIISH Research Fund. The study has been undertaken to explore the effect to hemispheric processing in bilingual normal adults and aphasics (in Kannada and English languages) and monolingual normal adults and aphasics and make relevant comparisons. Data was collected from 50 monolinguals and 50 bilinguals, with stimuli being 3 lists of 20 word pairs each in Kannada-Kannada, English-English and Kannada-English respectively. The results are being analyzed. The results of this study will be of immense help for expansion and further refinement in assessment and management of monolingual and bilingual aphasics.

Standardization of Kannada Language Test (KLT) for Children

This project with Dr. K.C. Shyamala as investigator, and Dr. M. Jayaram and Mrs. Vijayashree as coordinators, is funded from the AIISH Research Fund. Standardization of KLT for children has been taken up to establish normative scores based on collection of large-scale data on KLT. This will be useful in identifying children with language disorders. About 240 children in the age range of 3-7 years, with 60 children in each age group (3-4, 4-5, 5-6, 6-7 years) will be taken up for the study. This test is basically a tool available to the clinician for sampling some of child's behaviors in terms of different dimensions. It is an objective measure and aids the clinician in arriving at an accurate diagnosis and in successful rehabilitation of the client. At present data collection is in progress.

Aging and Pathological Correlates of Voice

The investigators of this project are M. Pushpavathi and

Dr. M. Jayaram and is funded from the AIISH Research Fund. This project aims at analyzing the acoustic parameters of normal and pathological voice using MDVP software. This also aims at finding the subtle voice changes seen across ages and also to develop library of normal and pathological voice.

OTHERS

Honours

- ❖ Gowri Krishna and Manjula, R. Effects of word length on lexical stress in Kannada. Won the Muktesh award in Speech Pathology for the best paper.
- ❖ Mili, M. Mathew and Manjula, R. Auditory perceptual training for the identification of speech deviation - A necessary or essential clinical skills. Won the award in Speech Pathology for the best poster paper.
- ❖ Venugopal, M.B., Rajasudhakar, R., and Manjula, R. Analysis of speech of pseudobulbar palsy and bulbar palsy: Perceptual vs. acoustic. Won the Young Scientist award for the best paper in Speech Pathology.

Papers Presented at Workshops/Seminars/Conferences

The following papers were presented by the staff of the department at the 35th Conference of ISHA held at Chennai in January 2003.

- ❖ J. Rohini, Sonia Singh & K.C. Shyamala, Foreign accent syndrome: A study of phonological deficits in Broca's aphasia.
- ❖ K. A. Aditi, J. Deema & K.C. Shyamala. A proposal for client centered rating scale for an appraisal of aphasia treatment.

- ❖ B. Bhuvaneshwari, J. Deema & K. C. Shyamala. Cross linguistic study of the phonological processes in children with Down syndrome and autism, pragmatic skills in TBI patients.
- ❖ Mili M. Mathew & R. Manjula. Auditory perceptual training for the identification of speech deviations - A necessary or essential clinical skill.
- ❖ Gowri Krishna & R. Manjula. Effects of word length on lexical stress in Kannada.
- ❖ M. B. Venugopal, R. Rajasudhakar & R. Manjula. Analysis of speech of Pseudo Bulbar palsy and Bulbar palsy: Perceptual vs. acoustic.
- ❖ N. Karthik, S. K. Aditi, & R. Manjula. Efficacy of 'scanning index' as a measure in ataxic dysarthria.
- ❖ N. Banumathi & R. Manjula. Speech processing in normals under DAF.
- ❖ V.V.S Sairam & R. Manjula. Voice perturbation measure in subjects with GERD.
- ❖ Komal Khanna & R. M Manjula. Frequency analysis of tone languages - Punjabi & Mizo.
- ❖ A. Ragisha, M. Pushpavathi. Psychological aspects of Voice disorder.

Equipment Procured

Pentium 4 systems (Compaq 1000 MHz
 Laptop (Compaq)
 Boston Diagnostic Aphasia Examination
 Stuttering Primer (Book + video cassette)

PUBLICATIONS

Shyamala K. C. (2002). MLU and Syntactic Complexity in Speech of the MR On line Journal www.languageinIndia, September 2002

Manjula, R. (2002). Speech tics: A case report. *Journal of Indian Speech and Hearing Association*, 16, 104.

Manjula, R. (2002). Woster drought syndrome: A distinct clinical group. *Journal of Indian Speech and Hearing Association*, 16, 57-62.

Manjula, R. (2002). Identification of developmental apraxia of speech: A retrospective study. *Journal of Indian Speech and Hearing Association*, 16, 47-53.

Basanti Devi, (2002). A study of Conditional and Concessive Clause in Assamese, Bengali and Kannada online journal www.languageinIndia, November.

Basanti Devi, (2002). Some Multilingual and Multicultural Issues pertinent to speech, language pathology online journal www.languageinIndia, November.

Basanti Devi, (2003). Women in the Mirror of Language online journal www.languageinIndia, January 03.

DEPARTMENT OF SPEECH-LANGUAGE SCIENCES

The Department of Speech Sciences had been established in the year 1984 to study normal aspects of speech and to conduct specialized studies in this area. Speech languages are two, but highly interrelated phenomena, and a focus was needed to study normal aspects of language. Therefore, the scope of functioning of the department of speech sciences was expanded to include study of language sciences. The objective was to focus on research and clinical issues in various aspects of language and its related domains. It was proposed to give thrust to the study of language acquisition and disorders, cognition as related to language, acquisition of literacy in Indian context and the effect of culture on communication. In order to achieve the above objectives, it was proposed to establish the following four subunits in the Department of Speech-Language Sciences - culture and communication unit, clinical linguistic unit, language and cognition unit, and language and literacy unit.

A lecturer in language pathology was shifted to the new department from the department of Speech Pathology and a new of post of clinical linguist was created (on contract basis). The new department of with the name of Speech-Language Sciences was launched on 10th April 2002 by Prof. S. N. Hegde, Vice Chancellor, University of Mysore and Dr. Udaya Narayana Singh, Director, CIIL. A National Seminar on "Speech and language sciences: Current trends and future directions" was organized as a part of the inauguration of the new department.

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. A need to open professional voice care center has long been felt in the department and the objective was achieved. Sri. S. K. Naik, Secretary, Ministry of Health & Family Welfare,

Government of India inaugurated the "Professional Voice Care Center" on 13.11.2002. The center is dedicated to provide special services for professional voice users including singers, politicians, actors and teachers. The center caters to the advancement of management procedures for voice and its problems in professional voice users. It intends to conduct intensive evaluation and provide treatment for certain specified clinical groups like that of professional voice users, who provide exciting challenges and a special responsibilities to vocalogists. It also has a laboratory equipped with state-of-the-art instruments required for evaluation and treatment of voice disorders.

The department has been involved in forensic voice identification. For the first time in the history of India, Ms. Yeshoda, Lecturer at the department attended the City Civil Court, Bangalore as an expert for testifying on speaker verification. The court listened to the ways of speaker verification through spectrographic evaluation and remarked that it was a novel method for them.

TEACHING AND TRAINING

The faculty of the department were involved in teaching courses on (a) introduction to speech, language and communication, (b) anatomy, physiology and pathology of the speech and language mechanism, (c) normal aspects of voice, articulation and fluency, (d) advanced course in the normal aspects of voice, articulation and fluency, (e) scientific enquiry in speech pathology, and (f) epidemiology

As part of the practical training, undergraduate and postgraduate students were trained in case history taking and evaluation and assessment procedures for various speech and language disorders.

Short-term Training Programs

The short-term training programs conducted at the department during the year 2002-03, are shown in Table 1.

Title	No. Conducted
Instrumentation in speech sciences	4
Computer aided therapy techniques	2
Evaluation of voice, articulation and fluency	1

Table 1: Short-term training programs conducted at the department.

CLINICAL SERVICES

Diagnostics: 1270 patients were assessed and diagnosed for various problems of voice, articulation, fluency and language.

Therapeutics: Supervision and counseling of 342 patients were carried out.

RESEARCH

The following scholars were pursuing their Ph.D. program at the department.

Ms. N. Sreedevi : Acoustic characteristics of vowels in Kannada (submitted)

Ms. N. Swapna : Fine-grained auditory discrimination in normal children and children with learning disabilities (submitted)

Ms. M. Pushpavathi : Language and speech motor interference in children with stuttering

Ms. H. Rohini : Prosodic perception in the brain damaged (proposal submitted)

Mr. M. Santhosh : Some perceptual and acoustic correlates of stuttering: Pre- and post therapy comparison (proposal submitted)

Master's dissertations completed in the academic year 2001-02 under the supervision of departmental staff were as follows

T. Ananthi : Word Stress: A pre- and post therapy analysis in the speech of persons with stuttering. Guide : Dr. S.R.Savithri

Neha Rawat : Acoustic database for describing text. Guide : Dr. S.R.Savithri

Pamela Samaddar : Reliability of voiceprints. Guide : Dr. S.R.Savithri

The following Master's dissertations are in progress.

Ramya KM : Development of a voice disorder outcome profile (Voice-DOP) for an Indian population. Guide : Dr. M. Jayaram

Savitha V.H. : Fundamental frequency changes in voice during puberty in an Indian population. Guide : Dr. M. Jayaram

Jessy George : A cross language study of consonant Perception. Guide : Dr. S.R.Savithri

Mili C. Samuel : Modeling labial co-articulation in Malayalam. Guide : Dr. S.R.Savithri

M. Ranganathan : Speaker verification in disguised Speech. Guide : Dr. S.R.Savithri

N. Chayadevie : Singer's Formant (Fs) in Indian Classical singers: Carnatic Vs. Hindustani. Guide : K. Yeshoda

Jayashree Shanbal : Assessment of written language disability. Guide : Dr. K.S.Prema

Namratha Mudkatte : Phonological awareness and reading in hearing impaired. Guide : Dr. K.S.Prema

Ponnumani : Remedial training material in Malayalam. Guide : Dr. K.S.Prema

Projects Completed

Voicing Contrast in Indian Languages: Acoustic Measurements

The project with Dr. S.R. Savithri, and Ms N. Sridevi as investigators has been funded from AIISH Research Fund. The project aimed at investigating voicing parameters of stop consonants in 16 Indian languages:- Punjabi, Kashmiri, Assamese, Hindi, Tulu, Kodava, Malayalam, Marathi, Tamil, Gujarathi, kannada, Telugu, Oriya, Rajasthani, and Bengali. Specifically seven acoustic parameters were measured to understand the voicing characteristics of these languages. Among the host of parameters, in most of the Dravidian and Indo-European languages, VOT contrasts voicing in word - initial position. However, variations among languages were observed. In the word-medial position, the voicing contrast is by closure duration or total duration. In Tamil, and Malayalam the voiced and weakly voiced plosives were not contrasted by any of the parameters studied. In Hindi, the contrast was poor. In word-final position, preceding vowel duration appears to contrast voicing in Kashmiri, Bengali, Hindi and Marathi. In contrast to the finding in other non-Indian languages, vowel duration preceding unvoiced plosives was longer than those preceding voiced plosives in all Indo-European languages except Gujarathi.

Professional Services of AIISH Graduates: International Scenario

This project with Dr. M. Jayaram and Dr. S.R. Savithri as investigators is funded from the AIISH Research Fund. A list of AIISH graduates was prepared with the help of documents in the academic section. A questionnaire was prepared to obtain information on the whereabouts of the AIISH graduates which was mailed to AIISH graduates/parents of AIISH graduates. A 'yahoo group' was also opened through which graduates became members. Based on the information obtained, an address book for B.Sc and M.Sc graduates was prepared. The address book consisted of addresses of 509 M.Sc students and 698 B.Sc students, and emails of 333 AIISH graduates. Graduates in India and overseas year wise and the nature of work of graduates were compiled.

Investigations of Reading Skills in Children with Reading Disability - Indian Perspective

This project with Dr. K.S. Prema and Dr. M. Jayaram as investigators is funded from the AIISH Research Fund. A retrospective study was conducted to evaluate the relationship between demographic factors and reading skills in Indian children learning to read and write English, an alphabetic language. The results did not indicate any significant relationship between the demographic factors and reading skills. The data indicated that the age factor emerged as a crucial variable suggesting that reading is a developmental phenomenon. The study proposed screening and clinical versions of the early reading skills, the profile used for regular clinical purposes.

Projects Under Progress

Speech Perception: Perception of Prosody in Patients with Brain Damage

The project with Dr. S.R. Savithri and Ms. H. Rohini as

investigators is funded from the Department of Science and Technology, Ministry of Science and Technology, Government of India. This project aims at investigating the processing of linguistic stress in patients with brain damage. Specifically the perceptual abilities of emphatic stress in Kannada speaking patients with left hemisphere damage and right hemisphere damage will be compared with their age-matched non-brain-damaged Kannada speaking subjects. It is hypothesized that individuals with brain damage process the stimuli differently on stress identification task as compared to non-brain-damaged subjects. To approve or reject the speculation, independent manipulation of the cues available in the stimuli would help to determine if two groups use different acoustic parameters in judging word stress. Material for prosodic analysis has been prepared, analyzed and synthesized. Perceptual evaluations of synthesized phrases are being carried out on normal population. Review of literature is under progress.

Differential Diagnosis of Stuttering and Normal Nonfluency

The project with Dr. S.R. Savithri as investigator is being carried out by the department of Speech-Language Sciences. It aims at evolving a protocol for differentially diagnosing stuttering and normal nonfluency. This protocol can be used in the institute in future. Data collection is under progress and 78 speech samples of children with normal nonfluency and stuttering have been collected till date.

Relationship among Languages, Reading and Mathematics - An Exploratory Study in Kannada

This project with Dr. K.S. Prema and Dr. S Ramaa, Reader, RIE as investigators is funded from the AIISH Research Fund. It is well known that arithmetic skills are dependent on language skills. Hence, the project aims at investigating the relationship among language-reading-mathematics in 4th grade children of Kannada medium. Tests for reading, language and mathematics are developed

and administered on 4th graders. The data analysis is under progress.

Changes in Voice attributes as a Function of Age in Singers

This project with Dr. M. Jayaram and Ms. K Yeshoda as investigators is funded from the AIISH Research Fund. It is of interest to know the impact of age in singers as they are trained to use the speech mechanism in a highly specialized manner. Also, a study in this direction would reveal whether the physiologically efficient voice which is the result of formal training delays the age related changes in voice or whether the singers are equipped with coping strategies to maintain their voice quality. Hence, the project is aimed at discerning the effects of age on voice in Indian Classical Singers (both Hindustani and Carnatic). The review of literature is under progress.

Prevention of Deafness and Communication Disorders

The project with Dr. M. Jayaram as coordinator and Dr. K.S. Prema as in-charge is funded by the Ministry of Health and Family Welfare. The main objective of the project is primary, secondary and tertiary prevention of communication disorders. The main activities included screening of infants and school children, material development, extension activities, and sensitization program for publics and other professionals. The summary of infant and school screening are given below:

Screening	Total No. Screened	Total No. Referred
Infant	3260	231
School	8894	710

Table 1 : Summary of Infant and School screened



Sri Kumar Bangarappa, Hon'ble Minister for Municipal and Town Panchayath
arriving at AIISH Sports Complex, Panchavati Campus to inaugurate
AIISH DURBAR - 2003



Dr. Vasundara Doraiswamy, Guest of Honour presenting "Navarasa" during
AIISH Durbar



Students of AIISH presenting Fashion Show on the occasion of
AIISH Durbar 2003



Sri Shirdwaj, Cine Artist (Extreme left) is seen with some of the participants
at the AIISH Durbar 2003

The following orientation lectures were given to various professionals and the number of beneficiaries is shown in table.

- ❖ Prevention, identification and management of communication disorders.
- ❖ Role of nurses, BEO's, BRP's, preschool teachers in early identification, prevention and management of communication disorders.
- ❖ Identification and management of children with learning disability.

Target Group	No. of participants
Nurses	238
IED Teacher	93
Preschool Teacher	32
BEO's BRP's,	49
Students	20

Table 2 : Summary of Sensitisation Programmes

OTHERS

Seminars/Symposia Conducted

- ❖ A National Seminar on "Speech and Language Sciences: Current trends and future directions" was conducted from 10 - 11 April 2002. The seminar was funded (Rs. 90,824/-) by the institute and was inaugurated by Dr. S. N. Hegde, Vice Chancellor, University of Mysore, Mysore and Dr. Udaya Narayana Singh, Director, Central Institute of Indian Languages, Mysore. The purpose of the seminar was to provide a forum for professionals in the field of speech

language sciences to up date the current status and research and applications in the area and to focus on the directions of future research as relevant to Indian conditions. The current trends and future directions in the various areas of speech language sciences such as speech analysis and recognition, language processing, suprasegmental analysis, 3-R - Indian scenario, biological basis of language, psychological and linguistic basis of language and music, perception and multi lingualism, were discussed. Seventeen professionals from different parts of the country delivered lecture on various aspects of speech and language sciences.

- ❖ A National Seminar on "Labial Coarticulation in Indian languages" was conducted on 14.06.2002. The program was jointly sponsored by CIIL, Mysore and AIISH, Mysore. Eighteen participants attended the seminar and presented papers on "Labial coarticulation in Kannada, Tamil, Malayalam, Telugu, Marathi and Assamese". An amount of Rs.11,000/- was received from CIIL towards the seminar.
- ❖ A RCI-CRE Workshop on "Assisting Children with Learning Disability" was conducted from 8-9 August 2002 for special educators and educators. Thirty-two participants from various parts of southern India attended the workshop. Eleven resource persons delivered lectures on different topics. Workshop also provided opportunities to have hands on experience in identification and assessment of children with learning disability. Display of assessment tools and remedial resources in the form of manuals and software was arranged. Ms. Shobha Nambisan, Principal Secretary, Department of Women and Child Welfare, Bangalore distributed certificates during the valedictory function.
- ❖ A National Seminar on "Cross language Perception of Vowels in Indian Languages" was conducted on 21.02.2003. The

program was jointly sponsored by CIIL, Mysore and AIISH, Mysore. Twenty-three participants attended the seminar. Twelve participants were given audiocassettes of word pairs with Assamese vowels. They were asked to do the perceptual analysis and come for a second workshop to present the results of their findings. An amount of Rs.7000/- was received from CIIL towards the seminar.

Papers Presented at Workshops/Seminars

The following papers were co-authored by the staff of the department at the 35th Conference of ISHA held at Chennai in January 2003.

- ❖ H. Savitha, M. Ranganathan, & S. R. Savithri. Are Children's Voices Hoarse?
- ❖ Jayashree Shanbag, R. Gopisankar, & K. S. Prema. Word Retrieval in Children with Dyslexia.
- ❖ M. Sandeep, Amit Gupta, & S. R. Savithri. Spoken Word Recognition.
- ❖ M. Santosh, & S. R. Savithri. Effect of singer's formant on voice quality.
- ❖ N. Chaya Devie, M. Santosh, & K. Yashoda. Acoustic analysis of voice of singing students.
- ❖ P. Bhuvaneswari, Rajani Sebastian & K. S. Prema. Pragmatic Assessment Manual for Children with Learning Disability.
- ❖ S. R. Savithri, H. Rohini, & M. Seema. Perception of word stress in Kannada.

- ❖ S. R. Savithri, S. Radhakrishna, & Pooja Kanchan. Neurogenic stuttering in a patient with recurrent stroke of vertebro-basilar artery.
- ❖ Vani Rupela, & S. R. Savithri. Discrimination of time-altered speech by children with learning disability.

The following papers were presented by the staff of the department in various Workshops/Seminars:

- ❖ S. R. Savithri. Speech and language perception; current trends and directions for future research at the National Seminar on Speech and Language Sciences: Current Trends and Future Directions, held at Mysore in April 2002
- ❖ S.R. Savithri. Introduction to Speech Perception, at the National Seminar on Cross Language Vowel Perception in Indian Languages, held at Mysore in February 2003
- ❖ M. Santosh, & S. R. Savithri. Some Perceptual and Acoustical Correlates of Stuttering: Pre-Post Therapy Comparison, National Symposium on Frontiers of Research on Speech and Music, IIT, Kanpur, 15-16 February 2003.
- ❖ K. Yeshoda. Perturbation measures in the voice of singers and nonsingers at the National Symposium on Acoustics, Aligarh Muslim University in October 2002.
- ❖ K Yeshoda. Cross language speech perception: An introduction to cross-language vowel perception at the National Seminar on Cross Language Vowel Perception in Indian Languages held at Mysore in February 2003
- ❖ K. S. Prema. Research on language and language disorders: Scope for research in India at the National Seminar on Speech

and Language Sciences: Current Trends and Future Directions
held at Mysore in April 2002

- ❖ K.S. Prema. Methods for Teaching Language Skills at the Workshop on Assisting Children with Learning Disability held at Mysore in August 2002
- ❖ K. S. Prema. Neurolinguistics of Linguistic Perservation - evidences from clinical population at the 4th International Conference on South Asian Languages held at Annamalai University, Tamil Nadu in December 2002
- ❖ K. S. Prema. Reading Acquisition in Dravidian Languages at the International Conference on Cognition, Neurology and Language held at Cochin in December 2002
- ❖ K. S. Prema. Cross-Language Vowel Perception in Indian Languages - Statistical Analysis and Report Writing at the National Seminar on Cross-Language Vowel Perception in Indian Languages held at Mysore in February 2003.
- ❖ H. Rohini. Nasometry across Dravidian and Indo-European languages at the Symposium and Workshop on Speech disorders in individuals with cleft lip and palate - assessment, Therapy and surgical management held at SRMC, Chennai in October 2002
- ❖ H. Rohini. Voicing contrast in patients with cerebellar pathology at the Workshop on Spoken Language Processing, TIFR held at Mumbai in January 2003
- ❖ H. Rohini. Experimental paradigms in cross-language research at the Seminar on Cross-Language Vowel Perception in Indian Languages held at Mysore in February 2003.

- ❖ Ms. H. Rohini also participated as one of the panelist for the panel discussion on Assessment of hyper nasality and development of norms at the Symposium and Workshop on Speech disorders in individuals with cleft lip and palate - assessment, Therapy and surgical management held at SRMC, Chennai in October 2002.

Material Development

Following materials have been prepared:

- ❖ Handout on communication disorders
- ❖ A checklist on normal speech and language development for the age group of 0 month - 5 years
- ❖ A checklist - "Check yourself" for communication disorders
- ❖ Bedside assessment for adult neurogenic disorders
- ❖ Pretest and posttest questionnaire on communication disorders

Equipment Procured

Vitalograph 2120

Cognispeed 1.21b - Test program

SPIDA 5-pc based Spirometry with software

Computer XP (DST Project)

SSL software (DST Project)

Carrier Split (P) series AC with

2 tonnes RC5KVA, Voltage Stabilizer

with 2 remote controls - Model EW 500

PUBLICATIONS

- ❖ Rohini, H. (2002). Nasometry across Dravidian and Indo-European languages, Proceedings of the symposium on

Speech disorders in individuals with cleft lip and palate - Assessment, therapy and surgical management, SRMC & RI, Chennai, 157.

- ❖ Santhosh, M., & Savithri, S. R. (2003). Some Perceptual and Acoustical Correlates of Stuttering: Pre-Post Therapy Comparison. Proceedings of Frontiers of Research on Speech and Music (FRSM - 2003), IIT, Kanpur, 125-130.
- ❖ Savithri, S. R. (2002). Some acoustic correlates of stuttering: A pre-post therapy comparison. Asia Pacific Disability Rehabilitation Journal, 13, 2, 133-138
- ❖ Namita, S. K., & Savithri, S. R. (2002). Acoustic analysis of speech of persons with stuttering. Journal of the Indian Speech and Hearing Association, 16, 54-56.
- ❖ Savithri, S. R., & Rohini, H. (2003). Voicing perception in patients with cerebellar pathologies. Proceedings of workshop on Spoken Language Processing, TIFR, Mumbai, 71-78.

CENTRAL FACILITIES

ACADEMIC SECTION

The main objectives of the institute are to impart professional training, render clinical services, conduct research and provide rehabilitation services in the field of speech and hearing. The institute is affiliated to the University of Mysore for the award of degrees. The courses offered at the institute are recognized by the Rehabilitation Council of India (RCI). In the year 1966, post graduate program (M.Sc in speech and hearing) was started and subsequently undergraduate program (B.Sc in speech and hearing) was started in 1967 with 13 students in each program. In due course the student strength was increased to 40 in B.Sc & 25 in M.Sc (Sp.& Hg).

Presently the institute conducts the following diploma, undergraduate, postgraduate and doctoral programs in speech and hearing in addition to short-term training programs

- ❖ B.Sc (Speech and Hearing)
- ❖ M.Sc (Speech and Hearing)
- ❖ Ph.D (Speech and Hearing)
- ❖ Diploma in Hearing aid and Ear Mould Technology.

B.Sc (Speech and Hearing) students are given intensive training in both the theoretical and practical aspects of speech, language and hearing to serve the population with speech and hearing disability. The postgraduate program aims at imparting in depth knowledge and skills in the areas of speech, language and hearing. In addition, the students are trained to carry out research that would help in the up gradation of diagnostic and treatment methods.

Introduction of Integrated Semester Scheme

Integrated Semester Scheme was introduced for B.Sc (Sp & Hg) from the academic year 2002-03. Along with this,

internship was introduced making the B.Sc (Speech & Hearing) a 4-years course. The syllabus of the course was fully revised.

New Training Programs

Introduction of Diploma in Hearing Aid and Earmold Technology

The highlight of the academic activities at the institute during the year was the introduction of a 1-year Diploma program in Hearing Aid and Earmold Technology. The course is open to +2 students with physics background, students with Diploma in Electrical sciences or Electronics and students with ITI certificate. The course, in its very first year, received excellent response attracting students from Northeastern states also. The course was restricted to 15 students. The focus of the program is to generate skilled manpower in the area of hearing aid servicing and earmold making. It is expected that students thus trained will spread themselves out, in towns and taluk centers, serving hearing impaired population at their doorsteps.

B.S.Ed (Hearing Impairment)

A one-year programme in B.S.Ed (Hearing Impairment) will be introduced from the academic year 2003-04. This programme generates manpower, which can handle the large population of hearing impaired children in regular/special schools. They bring in focused specialization for the management of hearing impaired.

The institute has proposed to introduce the following new academic courses in the year 2003-04

- a) M.Sc (Audiology)
- b) M.Sc (Speech-Language Pathology)

M.Sc (Audiology) and M.Sc (Speech-Language Pathology) courses have received approval from the institute bodies and are awaiting approval from the Govt. of Karnataka.

Diploma, Undergraduate, Postgraduate and Doctoral programs

Admission Details

A total of 32 applications for Diploma in Hearing Aids and Ear Mold Technology were received. Selection Committee meeting was held on 19.6.2002 and admissions for the courses were made according to the rules and regulations.

A total of 426 applications for B.Sc, and 70 applications for M.Sc were received. Selection Committee meetings were held on 3.6.2002 and 25.7.2002 for B.Sc and M.Sc respectively and admissions for I B.Sc and I M.Sc were made according to the rules and regulations of the University of Mysore. Entrance examination was held for admission to M.Sc (Speech & Hearing) on 1st July 2002.

A total of 14 applications were received for the Ph.D program. Out of which four candidates were selected based on the interview held on for junior research fellowship of AIISH.

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

State	No. of students			
	Diploma	I B.Sc	I M.Sc	Ph.D
Andhra Pradesh	1	2	1	-
Bihar	-	3	-	-
Chandigarh	-	-	-	1
Chattisgarh	-	1	1	-
Delhi	-	2	2	-
Gujrat	-	1	-	-
Jharkhand	-	-	1	-

Karnataka	7	4	4	1
Kerala	-	1	5	-
Maharashtra	-	2	3	2
Meghalaya	-	1	-	-
Mizoram	1	-	-	-
Orissa	-	-	1	-
Tamilnadu	4	17	5	-
Tripura	-	-	1	-
Uttar Pradesh	1	3	-	-
Uttaranchal	-	1	-	-
Foreign	1	2	1	1

Students Enrolled in the Courses

	B.Sc						M.Sc				Dip. in HA & ET	
	I Year		II Year		III Year		I Year		II Year		One year	
	M	F	M	F	M	F	M	F	M	F	M	F
Total	40		35		28		25		25		15	
	14	26	13	22	10	20	05	20	07	18	09	06

Annual Examination Results

	I Class		II Class		Pass	Total percentage
III B.Sc	17		09		Nil	86.87%
II M.Sc	17		02		01	85.18%

The following students have secured the first five ranks in B.Sc & M.Sc (Sp. & Hg)

B.Sc (Sp. & Hg)	M.Sc (Sp. & Hg)
Ms. Anjana B Ram	Ms. Gowri Krishna
Mr. Varghese Peter	Ms. B A Sreevidya
Ms. Poornima Ram	Ms. Anitha T
Ms. Banumathy N	Ms. Krupa Elizabeth Daniel
Ms. Anitha R	Ms. Kiruthika C

Stipend / Fellowship

Stipend of Rs. 400/- pm, Rs. 650/- pm and Rs.250/- was paid for B.Sc, M.Sc & Diploma in HA & ET students respectively during the year. Fellowship of Rs. 5,000/- pm was paid to Ph.D fellows.

Number of Courses Taught

Department	Courses					
	B.Sc			M.Sc		Dip. in HA & ET
	I**	II	III	I	II	One year
Speech language pathology & Speech-language sciences	2	2	3	2	2	*
Audiology	2	2	3	3	2	1
Clinical psychology	1	1	3	2	1	
Electronics	*	*	*	*	1	1
Otorhinolaryngology	1	1	*	1	*	*

Linguistics	1	*	*	*	1	*
Neurology	1	*	*	1	*	*
Paediatrics & Neurology	*	1	*		*	*
Anatomy, Physiology & Pathology of Sp & Hg systems	1	*	*	*	*	*
Genetics, Paediatrics & Epidemiology	1	*	*	*	*	*

* Not applicable

** Integrated Semester

Faculty from other institutions such as K.R. Hospital, B.M. Hospital, JSS Medical college, BGS Apollo Hospitals, PGIMR Chennai, Dept of statistics, Manasagangothri taught the subjects - Paediatrics, Pathology, Epidemiology and Genetics to B.Sc students and Neurology to B.Sc and M.Sc students.

Clinical Practicum

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

Name of the Department	B.Sc			M.Sc	
(a) Diagnostics Audiology	35	60	70	70	80
Speech Pathology	17	30	70	35	80
Speech Sciences	17	30	*	35	*
Cli. Psychology	35	60	70	70	40
Electronics	35	*	*	*	40
Otolaryngology	*	60	*	60	*
(b) Therapy Clinic	200	380	330	270	370

* No postings.

Awards

Ms. Gowri Krishna, II M.Sc student was awarded Ms. Aarti Venkataraman gold medal for having secured highest marks in M.Sc at the annual convocation of University of Mysore held in December 2002

Ms. B A Sreevidya, II M.Sc student was awarded Mr. P D Manohar gold medal for having secured the highest marks in speech pathology subjects at the convocation held by University of Mysore. She also received 'Abhilash Award' for the best student clinician on the anniversary day of the institute.

Doctoral Research

Candidates working for Ph.D (part time)	8
Candidates working for Ph. D (JRF)	8

The following AIISH staff are working for their research programs leading to Ph.D:

Ms. N Sreedevi : Acoustic characteristics of vowels in Kannada

Ms. N Swapna : Fine-grained auditory discrimination in normal children and children with learning disability

Ms. M Pushpavathi : Language and speech motor interference in children with stuttering

Ms. P. Manjula : Hearing aid selection using speech intelligibility index

Mr. S P Goswami : Comprehension deficits in aphasia

Mr. P. Sameer : Phonological processes in Malayalam speaking hearing-impaired children

Ms. H Rohini : Perception of prosody in patients with brain damage

Mr. Animesh Barman : Psycho-acoustical profile in normals and individuals with auditory dysynchrony.

The following candidates are pursuing their research programs under AIISH Junior Research Fellowship:

Ms. Divya Menon : Speech evoked mismatch negativity: An objective measure of auditory perceptual deficits

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

Mr. Reddy Shivaprasad : MMN in sensori-neural hearing loss - A clinical measure of speech perception

Ms. Kalaiselvi P.S : Analysis of voice in Yakshagana folk artists

Mr. Gowri Shanker Patil : Aspects of stress and intonation in the speech of Broca's aphasics

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

Mr. M Santosh : Some perceptual and acoustical correlates of stuttering: Pre-post therapy comparison

Mr. M P Ravanani : Training modules in Kannada for children with auditory processing disorders

Workshops/Seminars/Symposia Conducted

Name of the workshop	Date

Polices for the Disabled	25.3.2003

Short Term Training Programs Conducted

Title	No. of Programs
Ear mould making	4
Hearing aid repair	2
Mental retardation	14
Speech therapy	7
Orientation program	6

WHO Fellows

Dr. Tin New Win & Dr. Nyint Aung, WHO fellows from Myanmar underwent a short-term training program on Prevention of Deafness and Hearing Impairment at this institute for a period of two weeks.



Sri Sandesh Nagaraj, Chairman, MUDA planting a sapling in Sports Complex when he visited the institute during AIISH Durbar 2003



School Children participating in drawing competitions held on part of the institute Open Day



Justice N.K. Jain, Chief Justice of High Court of Karnataka and Dr. J.P. Singh, Member Secretary, Rehabilitation Council of India at the inauguration of the RCI-CRE Seminar on 'Policies for the Disabled'



Hon'ble Chief Justice N.K. Jain inaugurating the seminar by lighting the lamp, Dr. J.P. Singh, Member Secretary, RCI is seen next to him

LIBRARY AND INFORMATION CENTER

The AIISH Library and Information Center is a specialist documentation center for the rehabilitation professionals in general and speech and hearing professionals in particular. The library has a good collection of resource materials in the form of printed and non-printed materials such as books periodicals, abstracting periodicals, independent projects, dissertations thesis, slides, films, audio and video cassettes and other ad-hoc publications. On date, the library holding runs more than 12750 volumes including Journals.

The entire collection is organized in a systematic order according to the classification and cataloguing scheme adopted. The technical processing reflects the easy accessibility of books to the readers. The library and information centre is providing various kinds of services such as:

- ❖ Providing latest books and periodicals in our specialty
- ❖ Indexing and cataloguing services
- ❖ Current awareness service
- ❖ Extension of Inter library co-operation
- ❖ Rendering effective reference services
- ❖ Orientation and guidance for library use
- ❖ Rendering reprographic services
- ❖ Internet services and CD ROM services
- ❖ Email services and OPAC services
- ❖ Barcode scanner and printer services

The book collection is being bard coded in order to facilitate quick transaction and generation of up-to-date and accurate circulation and inventory statistics Computerizing the cataloguing of books, bibliography of journal articles is under progress.

AIISH Library has been enrolled as:

- (a) Member of the Mysore City Libraries Consortium and Mylibnet.
- (b) Member of the Mysore City Libraries Consortium and Mylibnet.

Public who wish to consult the library for academic and research purposes can enroll as members by paying a Annual fee of Rs. 500/- for students and Rs1000/- for staff.

Planned Activities

- ❖ Increasing the collection of specialized books and to subscribe good number of technical journals pertaining to speech & hearing subject.
- ❖ Computerizing the library services and activities.

Annual Statistics

1. No. of Volumes as on 31.03.2003	12750
2. No. of Volumes added (From 1.04.2002 to 31.3.2003)	293
3. No. of Journals Subscribed	56
4. No. of Books/Journals Issued and Consulted (From 1.4.2002 to 31.3.2003)	86368
5. No. of Outside Members enrolled	47

ENGINEERING SECTION

There is large increase in the number of students and staff of the institute during the recent years. The infrastructure available has been found to be inadequate to meet the present needs. Therefore, infrastructure development has been given some importance at the institute. The following civil works were carried out from 1.4.2003 to 31.3.2002.

Particulars	Remarks
Construction of Multipurpose Sports Complex	Completed
Construction of Therapy Clinic	Completed
Construction of Preschool Training Center	Expected to be completed in July 2003.
Drilling of bore well near ladies hostel	Completed
Widening of road leading to therapy clinic from main gate	Completed
Construction of Amphi theatre	Completed
Side drain in front of Sports complex	Completed
P/L Sirra stones at Amphi theatre	Completed
P/F Sun control film to doors and windows at Therapy Clinic	Completed
P/F Aluminium PC sliding window	Completed
Renovation to E type quarters	Completed
Renovation of toilets near Medical Records and Speech block	Completed
Providing vehicle parking shelter near Speech block	Completed

Construction of garage to D type quarters	Completed
Construction of compound wall and flagging concrete to D type quarters	Under progress
Annual repairs and painting to A & B type quarters	Under progress
Construction of additional room for A & B type quarters	Under progress
Providing road, side drain and pathway in front of Therapy Clinic	Completed
P/L Asphalt road at Sports complex and Therapy Clinic	Completed
Lowering and leveling ground in Panchavati campus	Completed
Providing building scale models	Completed
Guest house renovation - civil work	Completed

HORTICULTURE SECTION

The following developmental works were carried out from 1.4.2002 to 31.3.2003.

Particulars	Total Area	Remarks
Developing Bermuda lawn at Amphi theatre, pathway and around the sports complex	20,716 sft.	Completed
Developing Bermuda lawn, pathway side slopes and Mexican lawn at court yard of Therapy clinic	15,016 sft.	Completed
	150 sft.	Completed

Developing Bermuda lawn at E type quarters	1,800 sft.	Completed
Developing Bermuda lawn around Canteen	1,866 sft.	In progress
Shaded lawn near old main gate (South West corner)	10,500 sft.	Completed
Tree planning (flowering trees)	56 Nos.	Completed
Tree planning (jungle trees)	200 Nos.	Completed
Ornamental plants for sports complex	147 Nos.	Completed
Ornamental plants for new Therapy clinic	151 Nos.	Completed
Prizes won during flower show competition	1 prize - 3	Shied - 1

THERAPY CLINIC

Since the inception of the institute the Therapy clinic has been catering to the needs of individuals with various types of communication disorders by providing speech and language therapy services. The clinic was managed under the Department of speech pathology over the years till May 2002, but since then, it is functioning as a coordinating center with a responsibility and scope to widening the activities and services rendered to the needy patients. Therapy services were carried out in a 14 - room set up, but now, therapeutic activities are conducted in a 190 - room set up. The new set up houses all diagnostic and therapeutic services, including OPD's and services from a host of allied professionals under a common roof. The new building was formally inaugurated by Sri Shatrughan Sinha, the then Honorable Minister for Health and Family Welfare, Government of India, on 25th January 2003. This facilitated providing the much-needed multi-disciplinary professional management, including physio and occupational therapy, all under one roof.

The main objectives of the full-fledged therapy clinic include

- ❖ training student clinicians in the management of speech-language disorders,
- ❖ providing diagnostic and rehabilitative services to individuals with speech, hearing and language disorders,
- ❖ providing short term training and orientation to allied professionals,
- ❖ providing public education services,
- ❖ developing assessment and training materials for rehabilitation,

- ❖ conducting workshops/seminars related to rehabilitation issues,
- ❖ preschool training programs for children with various communication disorders for successful mainstreaming, and
- ❖ conducting research.

Training Student Trainees in the Management of Communication Disorders

The Therapy clinic imparts clinical training to graduate and postgraduate students in the management of patients with speech, hearing and language disorders. The students are provided training in the assessment and management of various types of communication disorders, in addition to writing reports, documentation of patient related information, preparation of lesson plans, and work records and planning of home training programs etc. The number of students trained during the last year is given in Table 1.

Classes	No. of students
I B.Sc	40
II B.Sc	35
III B.Sc	28
I M.Sc	25
II M.Sc	25

Table 1: No. of students trained in the
Therapy clinic

CLINICAL SERVICES

Children and adults with various types of speech, hearing and language disorders are given therapy for a period of 45 minutes every day. The faculty and clinical staff provide supervision and counseling along with support and guidance to parents for home training. In addition, group therapy sessions and group parent counseling sessions are conducted to improve interaction and socialization. Consultancy services are provided from October 2002, by allied professionals such as pediatrician, neurologist, plastic surgeon, prosthodontist, phonosurgeon, physiotherapist and occupational therapists for total patient care and management. Services of an itinerant speech therapist are to ensure effective implementation of speech and language therapeutic services beyond the clinical set-up. The itinerant speech therapist visits schools wherein children availing our speech-language therapeutic services are integrated. The therapist sensitizes the teachers towards the scholastic problems of the children with communication disorders and also visits the work set-ups and homes whenever required. The detailed statistics regarding the clinical services are given in Tables 2 and 3.

Particulars	Total
No. of cases	3880
No. of sessions	34960
Demonstration therapy cases	441
No. of Hindi cases	157
Group parent counseling	22
Correspondence therapy	611
Physiotherapy	127
Certificates issued	70
Neurologist	82
Paediatrician	70
Phonosurgeon	17

Plastic surgeon	22
Prosthodontist	33
Occupational therapist	56
Follow up letters	96
Reply letters	95
E - mail enquiry	15

Table 2: Statistics of cases seen in the
Therapy clinic

Particulars		Total
HI	No. of groups	53
	Cases	242
	Sessions	1034
MR	No. of groups	4
	Cases	20
	Sessions	78
LD	No. of groups	27
	Cases	97
	Sessions	566
Stuttering	No. of groups	4
	Cases	19
	Sessions	20

Table 3: Particulars of group therapy
sessions

Providing Short-term Training and Orientation to Allied Professionals

Short term training and orientation programs and demonstrations are routinely provided by the clinic staff to the professional and paraprofessionals like PHC doctors, engineers,

teachers of special and normal schools, social workers, journalists, administrative officers, graduate and post graduate students of nursing, physiotherapy and occupational therapy.

Providing Public Education Services

Public education is an important part of facilitating early identification of disabilities. The staff of the clinic participates in screening programs and camps organized by the institute and outside service organizations for early identification and management of the disabled in schools, hospitals and other places, in and out of Mysore. Also, exhibitions and open house demonstrations are organized to educate general public, school and college students and others regarding the nature, type, cause, early identification, prevention and management of communication disorders. As a part of Science Day an exhibition and science competitions were arranged in clinic building on 28.02.03.

Developing Assessment and Training Materials for Rehabilitation

Assessment and training of disabled individuals requires various aids and materials, custom made to different disorders, age and language groups. Various audio/visual aids, charts, booklets and handouts were prepared last year, which are required for skill development. Following are some of the materials prepared last year.

- ❖ See scape device, articulatory posture display - an electronic device and other devices to improve blowing
- ❖ Model of brain, vocal fold vibration and spinal cord
- ❖ Audiocassettes on auditory training, voice problems and articulation drill material
- ❖ Prospectus on center for preschool training

- ❖ Charts related to Helen Keller, deaf-blindness, auditory training, clinic activities
- ❖ Materials for training different skills in different languages.

Preschool Training Programs for Children with Various Communication Disorders

The therapy clinic has been running group therapy programs for children with hearing impairment and mental retardation for the past two decades to facilitate group interaction, improve socialization and communication skills in these children. A regular center for preschool training program for children with hearing impairment, mental retardation, and cerebral palsy was started in 2002-03. Sri Malaka Reddy, H'ble Minister for Health and family Welfare, Govt. of Karnataka, laid the foundation stone for a new building with an area of 12,000 sq. feet in October 2002. The new building to house the preschool training programs will be ready by June 2003. More clinical groups speaking different languages and of different age groups will be started once the new building becomes operational. Sri S K Naik, Secretary, Department of Health, formally inaugurated this preschool program on 14th November 2002. The objective of this program is to achieve successful integration of children in the normal school. The activities in the school were planned with specific curriculum framed for various communication disorders. The details of the preschool program initiated are as follows:

- ❖ Clinical groups: Hearing impairment, Mental retardation, Cerebral palsy and Autism
- ❖ Age groups: 2 - 4 years and 4 -6 years
- ❖ Languages: Kannada, Malayalam and English
- ❖ Total duration: 4 hours daily

Month	No. of groups	No. of children	No. of sessions (four hours)
Nov. 2002	8	38	120
Dec. 2002	7	40	140
Jan. 2003	7	40	161
Feb. 2003	9	51	171
March 2003	9	54	180
Total			772

Table 4: Particulars of preschool groups.

OTHERS

Papers Presented at Workshops/Seminars

The following papers were presented by the staff members of the department in various Workshops/Seminars:

- ❖ N. Swapna. Speech perception abilities in children with stuttering at the II International conference on Neurology, Language and Cognition 2002 at Cochin in December. 2002.
- ❖ M.Sangeetha. Labial coarticulation in Assamese language - some acoustic aspects at the workshop held at AIISH in June 2002.

The Therapy clinic organized the following programs last year, for children attending therapy and their parents.

- ❖ Celebrated Helen Keller Deaf-blind awareness week from 23rd - 29th June. Activities included slogan-writing, poster

drawing competition for student clinicians, quiz competition for parents, display of charts related to Helen Keller and deaf-blindness.

- ❖ Children attending therapy presented a group dance, group song on account of Independence Day Celebrations. Group song and Rangoli by parents of handicapped children and speech on Independence Day by Mr. Nagaraju (stutterer, attending therapy)
- ❖ Onam was celebrated by pre-school group by making cards and flower carpet
- ❖ As a part of Institute anniversary HI and LD children from Therapy Clinic presented 2 programs (skit & doll dance).
- ❖ International Stuttering Awareness Day was celebrated on October 22nd by forming association of stutterers and quiz was conducted for the parents and cases.
- ❖ As a part of 'Christmas Day' celebration, Christmas tree decoration, photo session and sweets were distributed.
- ❖ On account of Sankranthi festival, "Sankranthi Ellu" was distributed to children attending therapy, parents and students
- ❖ Mass drill and fancy dress by children was held on account of Republic day.
- ❖ Children attending therapy participated in various sports/ cultural competitions held on account of world-disabled day and prizes were distributed to winners on 17th March 2003.

Equipment Procured

Compaq Computers - 18 Nos.

Visi-cooler

Laser printers - 2 Nos.

Color TV

OTHER PROGRAMS

AIISH Gymkhana

AIISH Gymkhana is an association of all the staff and students of the institute. The Gymkhana is also a platform for recreational, social and cultural activities for the members of the GYMKHANA. This will also foster, encourage, sustain and coordinate sports, art, cultural, and literary. The AIISH Gymkhana received a grant-in-aid of Rs.50,000/- from the institute for conducting various programs for the year 2002-03.

The following programs were conducted by AIISH Gymkhana during the year:

Vidya Vikas program, wherein the children of staff members were given educational materials (school bags, books, etc.) was launched. In the initial year, the program was restricted to children studying up to 7th standard. A total of 34 children received the benefits.

AIISH Durbar 2003, an inter-collegiate cultural festival, was held for the first time during the year. AIISH Durbar is a platform for college students to showcase their cultural talents. The competitions included half-an-hour variety program, painting, drawing, vegetable carving, fashion show, quiz, ek-minute and skit. The cultural and fine arts events at the festival witnessed intense competitions among students from 19 colleges of Mysore who participated in the festival. More than 6000 people attended the event. Mysore Medical College bagged the overall championship. It is hoped that the 2-day festival would be an annual feature in the coming years.

Sri Kumara Bangarappa, Hon'ble Minister for Municipal and Town Panchayat and Dr. Vasundara Doraswamy, Director, Vasundara

Performing Arts, Mysore inaugurated the program on 9th January 2003. Mr. Sandesh Nagaraj, Chairperson, MUDA, Mysore and Mr. Shivadwaj, Cine Artist were the chief guests at the valedictory function on 11th January 2003.

A Student Welfare Fund was launched to help students to meet their educational and medical needs. A fund was started with proceeds from AIISH Durbar and an initial contribution from the AIISH Gymkhana. Many students were helped to meet their medical and educational needs during the year. Students who receive educational aid are required to pay back the amount after they are employed. Repayment of medical aid received is only an option under the scheme.

A Library at AIISH Gymkhana was opened in the month of November 2002. A total of 13 magazines (4-monthly, 1-bimonthly, and 8-weekly) are being subscribed to the library.

Talents Day for children of the members of AIISH Gymkhana was arranged on 23.8.2002. Mrs. Sujatha Jayaram, w/o Dr. M. Jayaram, Director, AIISH inaugurated the program. Thirty-two children participated in the program and exhibited their talents in singing, dance, fashion show, music, reciting and karate. Each participant was given a token prize of Rs.50/-.

Inter-institutional Sports Tournament: An Inter-institutional sports tournament for Central Government employee's in the city of Mysore was organized in January 2003. A total of 200 sportspersons, representing 45 different Central Government organizations located in Mysore, participated in the tournament. Competitions were conducted in six events - cricket, badminton, chess, carom, table tennis and volleyball. Mr. M. K. Seetharam installed a trophy in memory of his father. CFTRI bagged the over all championship.

National Science Day was conducted on 28.2.2003. Mrs. Jayashree Shanbag, Director, AIR, Mysore inaugurated the program. The events of the program included the following:

- ❖ Release of a *science bulletin*
- ❖ *Puzzle solving* program for school children
- ❖ *Science quiz* for students conducted by I M Sc. students
- ❖ *General quiz* for staff conducted by POCD staff
- ❖ *Science treasure hunt* conducted by II M Sc. students
- ❖ *Science ek-minute* conducted by III B Sc. Students

'Institute Open Day' was also celebrated on 28th February 2003. More than 3000 members of the public visited the institute on that day and saw for themselves the activities of the institute.

A *"Puzzle Solving" competition* was arranged for high school children. One hundred and seventy one children from 14 schools participated in this event and solved puzzles on *"ear"* and *"speech mechanism"*.

National Service Scheme

Ever since its introduction in the institute, the NSS unit is involved in social service activities. AIISH being a professional training institute engaged in the promotion and maintenance of health in the community, the objectives of the NSS needs were tailored, according to the objectives and responsibilities of the institute without changing the motto of the NSS. Following are the few innovative health programs carried out this year by NSS.

Cultural Activities

- ❖ A talents day for the NSS volunteers were conducted in the beginning of the academic year in which 157 volunteers participated.



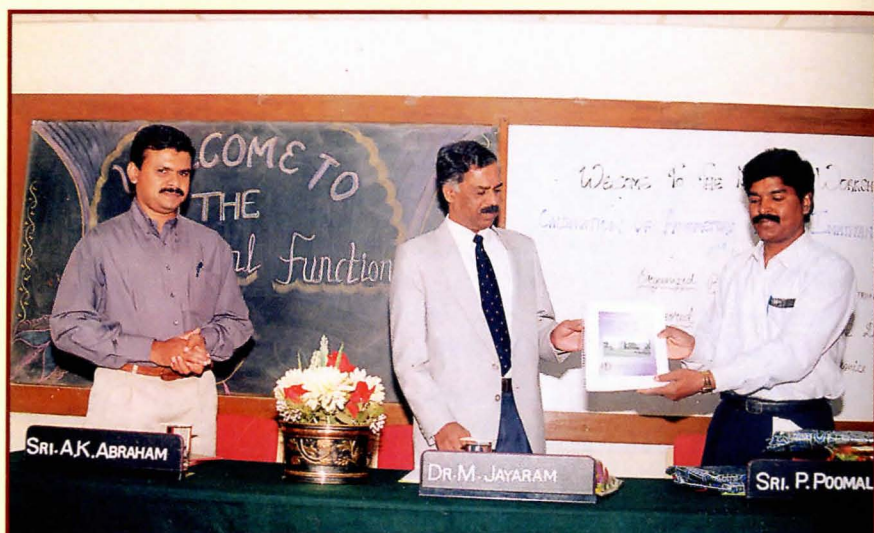
Hon'ble Justice N.K. Jain being greeted by children attending therapy



Inauguration of workshop on "Speech Language Science and Current Trends & Future Directions" — Prof S.N. Hegde, Vice Chancellor, University of Mysore & Dr. Uday Narayan Singh, Director, CIIL chief guests graced the occasion



RCI-CRE program: Participants of the program



Sri P. Poomalai, Chief Manager, CIPET releasing the handbook on "Calibration" at the workshop on 'Calibration of Audiometers & Immittance Meters'

- ❖ A competition on Flower arrangements among the volunteers was conducted on 13-08-02 in which 77 volunteers and 7 staff were participated.

Sharamadan Activities

- ❖ Watering and maintenance of 147 Teak wood plants planted at AIISH, Panchavati Campus. This was carried out in all most all the weekends.

Health Activities

- ❖ Yoga training: One month Yoga training was conducted for the staff and students of AIISH by Dr. Ramananda Rao, Mysore. In this program 51 students and 16 staff were participated.
- ❖ Health Orientation Programs for the NSS Program Officers: A novel program namely, Orientation program about the institute and on Identification, Prevention and Management of Speech and Hearing Problems in the community was launched during this year. This program was carried out as a part of their training program to the newly appointed NSS Program Officers from all parts of Karnataka. 238 program officers were benefited by this program.

Camps

The Speech and Hearing camps conducted at Maharashtra in different places were a major achievement of the NSS unit during this year. The following table shows summary of the achievements in the camp.

Particulars	Nanded	Akola	Nagpur
No. of cases screened	356	488	773
No. of hearing aids issued	57	111	109
No. of earmolds	37	32	32
No. of certificates issued	4	7	3

So, in total 277 hearing aids (along with two rechargeable cells per each Hg. aid and one solar charger) worth of Rs. 4,15,500/- were freely distributed during these camps.

The NSS Unit, and POD project of the institute and Dr. Ravi Agrawal MS.(Ophtho), Dr. Rajendra Kadam, MS., Dr. Sanjay Patanges - Nanded, Dr. Arun Agrawal, Agrawal Samithi - Akola and Youth Force - Nagpur jointly organized these camps.

OTHERS

- ❖ Work during the emergency: All the volunteers contributed money worth of Rs. 1000.00 and handed over to a staff who was working on temporary basis in the Institute and financially not able to meet the expenses for her Appendicitis surgery.
- ❖ Orientation on Snake: A demonstration/ orientation program on Snake by Snake Shyam, Mysore was carried out in the Institute in which 157 volunteers and 17 staff and children were participated.
- ❖ Door to Door Survey of various Speech and Hearing Problems & Mental Retardation

The survey activities were carried out in 5 villages namely, Chikka ankanahalli, Sugganahalli, Kokkarehundi, Banthagalli, and Hurulikayatanahalli. The total population covered during the survey

was 4258. The total number of Individuals identified as having various speech and hearing problems were 311 indicating 7.32% prevalence. The details are as follows:

E.N. T. Problems and Hearing impairments	236
Speech and language problems	65
Mental retardation	10

- ❖ The villagers in general are giving less importance to these serious health problems.
- ❖ Most of the villagers are medically oriented but not psychologically oriented. In the sense, they wanted immediate cure of the problem and medicines. They are not aware of Paramedical or non- medical form of treatments.
- ❖ The parents are less aware of the seriousness of the problems in the patient's later parts of the life such as marriage, occupation, social life etc.
- ❖ The villagers had given number of excuses for not attending the screening program like, financial problems, non availability of the escorts to bring the patients to the camp spot, necessity of attending marriage functions and other familial rituals during camp day etc.
- ❖ However, the patients who appeared for the screening and counseling programs were extremely happy about the quality and the quantity of our work.

APPENDIX - 1

CLINICAL SERVICES

No. of Cases Registered at the Institute

New cases	13076
Repeat cases	16699
Total No. of cases	29775
No. of working days	246

Agewise Statistics of New Patients

Age group	Male	Female	Total
00-05	1200	900	2100
05-10	1030	700	1730
10-20	1350	1250	2600
20-40	2000	1350	3350
40-60	1095	800	1895
60-80	651	395	1046
80+	200	155	355
Total	7526	5550	13076

State-wise Distribution of Cases Registered During the Year

State	No. of cases seen
Karnataka	9375
Kerala	2253
Tamilnadu	720
Andhra Pradesh	560
Uttar Pradesh	56
Maharashtra	62
Madhya Pradesh	50
Total	13076

APPENDIX - 2

HEARING EVALUATION

No. of patients seen for hearing evaluation at AIISH	:	7557
No. of patients seen for hearing evaluation/ screening at extension centers	:	12973
No. of patients seen for hearing evaluation at camps		
No. of ears with -		
a) normal hearing	:	3032
b) conductive hearing loss	:	2790
c) mixed hearing loss	:	2651
d) sensorineural hearing loss	:	3817
No. of certificates issued		
a) financial aid	:	443
b) admission to normal school	:	68
c) physically handicapped	:	22
d) tax exemption	:	13
e) others	:	106
f) education scholarship	:	10

Hearing Aid Trial

No. of patients seen for hearing aid trial	:	5251
No. of cases for whom hearing aid evaluation done	:	3509
No. of patients counseled	:	1741
No. of cases recommended		
a) Auditory training	:	1297
b) Speech reading	:	1450
No. of hearing aids issued under ADIP scheme		
a) Issued free of cost	:	
b) Issued at 50% of cost	:	
No. of hearing aids issued on exchange	:	151
No. of hearing aids certified	:	108

APPENDIX - 3

EARMOLDS

No. of patients seen	:	1654
No. of impression taken	:	2877
No. of earmolds completed	:	2859
No. of earmolds issued on		
a) 50% payment	:	1970
b) 100% payment	:	751
No. of special earmolds made	:	326

APPENDIX - 4

AGE-WISE STATISTICS OF PATIENTS

HEARING EVALUATION, HEARING AID TRIAL AND EARMOLD SECTIONS

Age Group	Hearing Evaluation		Hearing aid Trial		Ear molds		HAT counseling	
	M	F	M	F	M	F	M	F
0-01	59	44	40	28	39	10	13	23
02-05	524	398	361	302	445	321	165	143
06-10	350	366	247	183	383	296	118	111
11-15	273	213	169	121	225	164	87	64
16-20	294	243	131	88	137	77	56	43
21-25	386	153	81	32	69	33	33	20
26-30	265	206	58	27	41	17	25	11
31-35	306	173	43	26	52	25	29	14
36-40	354	55	54	26	50	30	14	14
41-45	229	156	91	38	65	42	39	25
46-50	234	156	79	39	56	34	29	31
51-55	214	122	86	39	73	27	38	29
56-60	233	153	126	66	92	30	79	32
61-65	222	139	133	70	71	28	74	38
66-70	231	132	164	77	92	26	77	35
71-75	185	110	144	72	74	9	78	36
76-80	124	68	110	36	37	11	59	25
81-85	79	40	67	18	31	14	32	9
86-90	29	21	32	7	0	0	24	4
91-100	3	0	4	3	0	0	1	0
Total	4594	3048	2220	1298	2032	1194	1070	707
G. Total	7642		3518		3226		1777	

APPENDIX - 5

SPEECH AND LANGUAGE DISORDERS AGEWISE DISTRIBUTION

Age in years	Male	Female	Total
<1	28	18	046
1-5	719	445	1164
5-10	571	333	904
10-15	303	164	467
15-20	157	69	226
20-25	108	30	138
25-30	43	23	66
30-35	34	15	49
35-40	31	19	50
40-45	21	04	25
45-50	27	04	31
50-55	19	07	26
55-60	16	06	22
60-65	09	05	14
65-75	03	03	06
75-85	07	02	09
85-95	01	01	02
Total	2097	1148	3245

APPENDIX - 6

DISTRIBUTION OF CASES WITH SPEECH AND LANGUAGE DISORDERS

Case Evaluation	Speech Evaluation	Counseling
I. Language disorders		
1. Delayed speech and language (DSL)	364	252
2. DSL with M.R.	527	246
3. DSL with C.P.	165	92
4. DSL with autism	43	28
5. Aphasia	27	14
6. Speech regression	21	10
7. Learning disability	96	59
8. Slow learner	02	01
II. DSL with hearing loss	1033	341
III. Hearing loss	02	02
IV. Speech Disorders		
1. Stuttering	361	280
2. Cluttering	004	003
3. Normal non-fluency	031	024
4. Misarticulation	216	125
5. Cleft palate	42	020
6. Dysarthria	33	11
7. Dysphonia	270	106
8. Laryngectomy	004	003
V. Miscellaneous	004	0
Total	3245	1617

APPENDIX - 7

COMMITTEES OF THE INSTITUTE

EXECUTIVE COUNCIL

Chairman

- 1 Dr. C. P. Thakur
Hon'ble Minister for
Health & Family Welfare
Government of India
Nirman Bhavan
New Delhi-110011

Succeeded by

Sri. Shatrughan Sinha
Hon'ble Minister for
Health & Family Welfare
Government of India
Nirman Bhavan
New Delhi-110011

Succeeded by

Smt. Sushma Swaraj
Hon'ble Minister for
Health & Family Welfare
Government of India
Nirman Bhavan
New Delhi-110 011

Vice-Chairman

- 2 Dr. M. B. Malakareddy
Hon'ble Minister for Health &
Family Welfare
Government of Karnataka
Vidhana Soudha
Bangalore 560 001

Succeeded by

Sri. Kagodu Thimmappa
Hon'ble Minister for Health &
Family Welfare
Government of Karnataka
Vidhana Soudha
Bangalore 560 001

Members

- 3 Sri. Javed Choudhary
Secretary (H)
Government of India
Department of Health
Ministry of Health & Family Welfare
Nirman Bhavan, III Floor, "A" Wing
New Delhi 110 011

Succeeded by

Sri S. K. Nayak
Secretary (H)
Government of India
Department of Health
Ministry of Health & Family Welfare
Nirman Bhavan, III Floor, "A" Wing
New Delhi 110 011

- 4 Dr. S.P. Agrawal
Director General of Health Services
Government of India
Nirman Bhavan, 4th Floor, "A" Wing
New Delhi 110 011
- 5 Sri J. V. R. Prasada Rao
Special Secretary (H)
Government of India,
Department of Health
Ministry of Health and Family Welfare
Nirman Bhavan, 3rd Floor, "A" Wing
New Delhi 110 011

Succeeded by

Sri G. R. Patawardan
Special Secretary (H)
Government of India,
Department of Health
Ministry of Health and Family Welfare
Nirman Bhavan, 3rd Floor, "A" Wing
New Delhi 110 011

Succeeded by

Smt. P. Jyothi Rao
Additional Secretary (H)
Government of India,
Department of Health
Ministry of Health and Family Welfare
Nirman Bhavan, 3rd Floor, "A" Wing
New Delhi 110 011

- 6 Smt. Bhavani Thyagarajan
Joint Secretary (H)
Government of India
Department of Health
Ministry of Health & Family Welfare
Nirman Bhavan, 2nd Floor, "A" Wing
New Delhi - 110 011
- 7 Sri. Rakesh Behari
Joint Secretary (FA)
Government of India
Department of Health
Department of Health & Family Welfare
Nirman Bhavan, 2nd Floor, "A" Wing
New Delhi 110 011
- 8 Smt. Rajwant Sandhu
Joint Secretary (HW)
Government of India
Ministry of Social Justice and Empowerment
Shastri Bhavan, 6th Floor
New Delhi 110 001
- 9 Dr. S.N. Hegde
Vice-Chancellor
University of Mysore
Mysore 570 005
- 10 Sri A. K. M. Naik
Principal Secretary (Health)
Government of Karnataka
Department of Health and Family Welfare,
Multistoreyed Building
Bangalore 560 001

Succeeded by

L. Gangadharappa
Principal Secretary (H)
Government of Karnataka
Department of Health and Family Welfare,
Multistoreyed Building
Bangalore 560 001

- 11 Dr. R. Seethalakshmi
Director of Medical Education
Government of Karnataka
Ananda Rao Circle
Bangalore 560 009.
- 12 Dr. S. Gopalakrishnan
Professor and Head
Department of ENT
JPIMER
PONDICHERRY - 605 006
- 13 Sri I. Kandaswamy
Professor of Radiology
Madras Medical College and Research Institute
CHENNAI
- 14 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 One Head of the Department
All India Institute of Speech and Hearing
Mysore - 570 006

Member-Secretary:

16 Dr. M. Jayaram

Director

All India Institute of Speech and Hearing

Mysore 570 006

FINANCE COMMITTEE

Chairperson

1. Sri J. V. R. Prasada Rao, IAS
Additional Secretary
Government of India
Department of Health
Ministry of Health & Family Welfare
Nirman Bhavan
New Delhi - 110 011
Members

Succeeded by

Sri G. R. Patawardhan
Special Secretary
Government of India
Department of Health
Ministry of Health & Family Welfare
Nirman Bhavan
New Delhi - 110 011
Members

Again succeeded by

Smt. P. Jyothi Rao
Additional Secretary
Government of India
Department of Health
Ministry of Health & Family Welfare
Nirman Bhavan
New Delhi - 110 011
Members

2. The Director General of Health Services
(or his nominee)
Ministry of Health & Family Welfare
Nirman Bhavan
New Delhi - 110 011
3. Smt. Bhavani Thyagarajan
Joint Secretary (H)
Government of India
Ministry of Health and Family Welfare
Department of Health
Nirman Bhavan
New Delhi - 110 011
4. Sri. Rakesh Behari
Joint Secretary (FA)
Government of India
Ministry of Health and Family Welfare
Department of Health
Nirman Bhavan
New Delhi - 110 011
5. Sri. A.K.M. Nayak
Principal Secretary (Health & Family Welfare)
Government of Karnataka
Department of Health and Family Welfare
Multistoried Building
Bangalore - 560 001

Decided by

Sri L. Gangadharappa
Principal Secretary (Health & Family Welfare)
Government of Karnataka
Department of Health and Family Welfare
Department Building
Mysore - 560 001
Bangalore

Member-Secretary

6. Dr. M. Jayaram
Director
All India Institute of Speech and Hearing
Mysore - 570 006

ACADEMIC COMMITTEE

1. Prof. B. S. Ramakrishna
Formers Vice-Chancellor
68, 2nd Main, 2nd Cross
Gangenahalli
BANGALORE - 560 068
Chairman
2. Dr. S. Bais
Deputy director General (M)
Directorate General of Health Services
Government of India
Nirman Bhavan
NEW DELHI - 110 011
Member
3. Dr. R. 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 department of AIISH, Mysore
Member
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
Professor and Head
Department of Physics
University of Mysore
Manasagangothri
MYSORE - 560 006
Member
11. Prof. L. M. Patnaik
Convenor
Microprocessor Application Lab.,
Indian Institute of Science
BANGALORE - 560 012
Member
12. Dr. M. Jayaram
Director
All Indian Institute of Speech and Hearing
MYSORE - 560 006
Member Secretary

APPENDIX - 8

FACULTY AND OTHER STAFF

Director

- | | |
|-------------------|----------|
| 1. Dr. M. Jayaram | Director |
|-------------------|----------|

Department of Audiology

- | | |
|-----------------------|------------------|
| 1. Dr. Asha Yathiraj | Reader & HOD I/c |
| 2. Dr. K. Rajalakshmi | Lecturer |
| 3. Mr. Animesh Burman | Lecturer |
| 4. Dr. C.S. Vanaja | Lecturer |
| 5. Ms. P. Manjula | Lecturer |
| 6. Mr. S.N. Vinay | Lecturer |
| 7. Mr. U. Ajit Kumar | Lecturer |

Department of Clinical Psychology

- | | |
|----------------------|-------------------|
| 1. Dr. P. Kalaiah | Professor and HOD |
| 2. Dr. S. Venkatesan | Reader |
| 3. Dr. G. Jayarama | Lecturer |

Department of Electronics

- | | |
|---|--------------------|
| 1. Mr. Ajish K. Abraham | Lecturer & HOD I/c |
| 2. Mr. Rizwan Pasha
(on contract basis) | Lecturer |
| 3. Ms. Santhy P. Kuruvilla
(Part time on contract basis) | Lecturer |

Department of ENT

- | | |
|-----------------------------|------------------|
| 1. Dr. K. Rathna Sabhapathy | Reader & HOD I/c |
| 2. Dr. H. Sundara Raju | Lecturer |
| 3. Dr. K. Rajeshwari | Lecturer |

Department of Speech Language Sciences

- | | |
|----------------------|------------------|
| 1. Dr. S.R. Savithri | Reader & HOD I/c |
| 2. Ms. K. Yeshoda | Lecturer |
| 3. Dr. K.S. Prema | Lecturer |
| 4. Ms. H. Rohini | Lecturer |

Department of Speech Pathology

- | | |
|-----------------------|------------------------------|
| 1. Dr. K.C. Shyamala | Reader in Language Pathology |
| 2. Dr. R. Manjula | Reader in Speech Pathology |
| 3. Dr. Basanti Devi | Lecturer in Linguistics |
| 4. Ms. M. Pushpavathi | Lecturer |
| 5. Ms. N.Sridevi | Lecturer in Speech Pathology |

General Administration

- | | |
|-----------------------------|----------------------------------|
| 1. Mr. V. Srinivasan | Administrative Officer |
| 2. Mr. S.L. Vijayanarasimha | Accounts Officer |
| 3. Mr. K. Purushothama | Assistant Administrative Officer |

Library & Information Centre

- | | |
|--------------------|-----------------------------|
| 1. Mr. M. Mahadeva | Library & Information Asst. |
|--------------------|-----------------------------|

APPENDIX - 9

PERSONNEL

Appointments

1. Dr. Y.V. Geetha	Clinical Lecturer	03.05.2002
2. Mr. S.P. Goswami	Lecturer	03.06.2002
3. Mr. M.N. Manjunatha Rao	Junior Engineer	26.09.2002
4. Mr. A.R. Keerthi	Publicity & Information Officer	10.01.2003

Appointments on Contract Basis

1. Mr. M.N. Manjunatha Rao	Junior Engineer	26.03.2002
2. Ms. N. Sridevi	Lecturer in Sp.Pathology	04.06.2002
3. Mr. U Ajit Kumar	Lecturer in Audiology	07.06.2002
4. Mr. A.R. Keerthi	Publicity & Information Officer	16.09.2002
5. Ms. H R Sudha	Receptionist	03.12.2002
6. Mr. Ramesh Kumar Mishra	Clinical Linguist	01.01.2003
7. Ms. Santhy P Kuruvilla	Lecturer in Electronics (Part time)	01.01.2003
8. Dr. G Malar	Lecturer in Special Education	17.01.2003
9. Mr. S N Vinay	Lecturer in Audiology	20.01.2003
10. Ms. Gowri Krishna	Speech Pathologist- Gr.I	20.01.2003
11. Mr. Rizwan Pasha	Lecturer in Electronics	21.02.2003
12. Ms. B. N. Shobha	Special Educator	01.01.2003

13. Ms B Amsaveni	Special Educator	08.01.2003
14. Mr. Arun Kumar Tangavelu	Speech Pathologist	20.01.2003

Appointments under Projects

Projects : "Prevention of Deafness & Communication Disorder"

1. Dr. Lizzie John	ENT Doctor
2. Ms. Dhanalakshmi	Project Assistant
3. Ms. M.N. Poornima	Project Assistant
4. Mr. K. Satish	Project Assistant
5. Ms. B.A. Sreevidya	Project Assistant
6. Ms. Gowri Krishna	Project Assistant
7. Mr. Raj Kumar	Project Assistant
8. Ms. Sabeena Kurian	Project Assistant
9. Mr. Arun Kumar Tangavelu	Project Assistant
10. Mr. T Jayakumar	Project Assistant

Projects under AIISH Research Fund (ARF)

1. Ms. E. Kavitha	Research Assistant
2. Ms. S. Surma	Research Assistant
3. Dr. I.P. Gowramma	Research Assistant
4. Mr. M. Nanjundaswamy	Research Assistant
5. Ms. T. Ananthi	Research Assistant
6. Mr. Sandeep Kumar	Research Assistant

Project under Department of Science & Technology (DST)

- | | |
|-----------------|--------------------|
| 1. Ms. M. Seema | Research Assistant |
|-----------------|--------------------|

Project under Frequency Modulated Hearing Aid (FMHA) Project

- | | |
|--------------------------|---------------------|
| 1. Mr. P. Karthik | Technical Assistant |
| 2. Mr. H. N. Kumaraswamy | Technical Assistant |

Promotion

- | | | |
|-----------------------------|----------------------------------|------------|
| 1. Mr. S.L. Vijayanarasimha | Accounts Officer | 15.07.2002 |
| 2. Mr. K. Purushothama | Assistant Administrative Officer | 22.07.2002 |
| 3. Mr. A.N. Prasad | Senior Accountant | 09.08.2002 |

Deputation

- | | | |
|----------------------|---------------|------------|
| 1. Mr. V. Srinivasan | Admn. Officer | 08.04.2002 |
|----------------------|---------------|------------|

Repatriation

- | | | |
|----------------------------|------------------|------------|
| 1. Mr. Sri. P.N. Gundu Rao | Accounts Officer | 01.07.2002 |
|----------------------------|------------------|------------|

Resignation

- | | | |
|-------------------|----------------------------|------------|
| 1. Ms. H.R. Sudha | Receptionist
(Contract) | 21.02.2003 |
|-------------------|----------------------------|------------|

Retirement (on Superannuation)

- | | | |
|---------------|----------|------------|
| Mr. Thimmappa | Watchman | 30.04.2002 |
|---------------|----------|------------|

Relief of Staff under AIISH Research Fund

- | | |
|--------------------|--------------------|
| 1. Mr. Santhosh | Research Assistant |
| 2. Ms. Beula Maria | Research Assistant |

3. Ms. G.G. Asha	Project Assistant
4. Mr. G. Vijayakumar	Research Assistant
5. Mr. Arun Kumar Tangavelu	Research Assistant
6. Ms. Nazleen Mohamed	Research Assistant
7. Ms. H.K. Uma	Research Assistant
8. Ms. B.A. Sreevidya	Research Assistant
9. Ms. T. Ananthi	Research Assistant
10. Mr. T. Jayakumar	Project Assistant
11. Mr. M. Santhosh	Project Assistant
12. Ms. H.N. Shilpashree	Project Assistant
13. Mr. Sandeep Kumar	Project Assistant
14. Ms. V.P. Vandana	Research Assistant
15. Ms. Aditi Chakravarthi	Research Assistant
16. Mr. Vargheese Peter	Research Assistant
17. Mr. N. Vijayakumar	Research Assistant
18. Mr. T. Jayakumar	Research Assistant

Assured Career Progression

Assured Career Progression scheme was introduced in th year 2001-02 and made effective from 9.8.99 as envisaged in GOI orders and the number of beneficiaries till 31.3.2002 under this scheme is as follows:

Group 'C' - 06

Group 'D' - 13

Visiting Faculty / Consultants

1. Dr. G. S. Janadhan	Neurologist
2. Dr. Somnath Vasudev	Neurologist
3. Dr. R. Vasudev	Epidemiologist
4. Dr. Krishnamurthy	Paediatrist
5. Dr. D. Narayanappa	Paediatrist
6. Dr. M. Mohan	Pathologist
7. Dr. Srikumari Srishailapati	Genetics
8. Dr. H. V. Satish	Plastic Surgeon
9. Dr. M. R. Dakshayini	Prostodontist
10. Dr. Shashikala Ramnath	Occupational Therapist
11. Mr. Prashanth V. Mangalvedhe	Physiotherapist
12. Dr. N. Renukadevi	Physiotherapist
13. Dr. Girish Kulkarni	Phonosurgeon

APPENDIX - 10

DISORDERS - WISE DISTRIBUTION OF CHILDREN AND ADULTS

Disorders	Language Disorders		Voice Disorders		Fluency Disorders		Phonological Disorders		Auditory Disorders	
Months	Child	Adult	Child	Adult	Child	Adult	Child	Adult	Child	Adult
Apr.' 02	50	2	7	6	21	9	18	2	28	1
May' 02	62	2	7	11	64	12	20	1	49	1
June' 02	158	4	9	8	28	11	11	3	116	1
July' 02	74	3	1	8	8	9	17	2	19	1
Aug' 02	37	2	0	3	19	13	6	1	19	0
Sept' 02	21	2	3	1	2	10	3	1	9	0
Oct' 02	28	0	13	0	4	9	0	0	13	0
Nov '02	26	1	1	12	9	6	3	4	7	2
Dec' 02	9	0	0	2	0	1	0	0	4	0
Jan' 03	40	4	1	3	6	9	6	1	12	6
Feb' 03	150	0	0	6	7	10	15	0	112	0
Mar '03	164	10	2	13	12	20	13	2	168	2

APPENDIX - 11

DETAILS OF CASES SEEN IN LISTENTING AND AAC UNITS

Month	AAC unit		Listening training unit	
	No. of cases	No. of sessions	No. of cases	No. of sessions
Jan. 2003	-	-	44	73
Feb. 2003	2	20	44	73
March 2003	7	40	44	72

APPENDIX 6

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

**AUDITED STATEMENTS OF ACCOUNTS
FOR
THE YEAR ENDED 31ST MARCH 2003**

Edited and scrutinized by

Sri Vijaya Narasimha S.L.

Prepared by

Mrs. B.V. Jyothi

Computerized by

Mrs. N. Parimala

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006
AUDITED STATEMENTS OF ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2003

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ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

Balance Sheet as at 31st March 2003

Liabilities	Amount					
	Current Year		Previous Year		Rs.	Ps.
	Rs.	Ps.	Rs.	Ps.		
Capital Fund:						
Balance as on 1.4..2002	21,49,99,162.61					
Less assets written off during the year	1,84,124.43					
Less debits	92,070.20					
	21,47,22,967.98					
Add cost of mobile unit capital fund + other credits	73,033.00					
	21,47,96,000.98					
Add amount transferred from Income and Expenditure account	6,71,37,587.82					
Closing balance			28,19,33,588.80			21,49,99,162.61
Funds (Schedule-A)			2,59,17,338.99			2,01,85,588.99
Deposits and advances of outside parties (Schedule-B)			40,05,470.50			21,99,624.50
Remittances account (Schedule-C)			1,354.00			1,03,528.26
Other liabilities (Schedule-D)			55,34,000.00			67,35,861.00
Sponsored programmes and other schemes (Schedule-E)			14,86,919.36			12,11,153.06
ADIP Scheme (GOI, Ministry of Social Justice & Empowerment) (Schedule-J)			17,34,723.88			17,93,227.38
Total			32,06,13,395.53			24,72,38,145.80
Accounts Officer/Admn. Officer		Director				Chartered Accountants

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

Balance Sheet as at 31st March 2003

Assets	Amount					
	Rs.	Ps.	Current Year Rs.	Ps.	Previous Year Rs.	Ps.
Fixed and other assets (Schedule-F)			22,99,17,583.79		15,88,16,404.22	
Advances to staff (Schedule-G)			13,18,463.00		12,71,926.00	
Sundry debtors for deposits and advances (Schedule-H)			5,98,76,271.72		5,60,88,237.83	
Investments (Schedule-I)			1,98,42,825.00		1,26,48,006.00	
Cash and Bank Balances						
(a) Cash on Hand	70,661.79					
(b) Cash at Bank - SB A/c No.176 with BOB	77,57,361.15		78,28,022.94		23,12,506.32	
Income accrued due :						
(i) Interest accrued on PF a/c with MGPO			61,445.70		39,044.20	
(ii) Grant-in-aid (Plan) due			0.00		1,40,00,000.00	
GOI. Min. of Social Justice & Empowerment (Schedule-J)			17,34,723.88		17,93,227.38	
Sponsored programmes/Schemes		0.00	2,53,134.35			
ADIP account	34,059.50		5,659.50			
Total			32,06,13,395.53		24,72,28,145.80	

Accounts Officer/Admn. Officer

Director

Chartered Accountants

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

Income and Expenditure account for the year ended 31st March 2003

Expenditure	Non-Plan		Plan		Current Year		Previous year	
	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
Salaries and allowances (Annexure-2)	1,68,67,312.00		1,91,751.00		1,70,59,063.00		1,64,90,644.00	
Merit scholarship/stipend: Actuals	8,45,966.00		25,110.00		8,71,076.00		4,65,542.00	
Add outstanding 2002-03	1,02,428.00		3,328.00		1,05,756.00		1,07,436.00	
Travelling allowance: Actuals	4,68,267.00		1,17,837.00		5,86,104.00		5,31,801.00	
Add out-standing 2002-03	20,881.00		0.00		20,881.00		0.00	
Contribution to LS/PC	8,232.00		0.00		8,232.00		40,195.00	
Institute's contribution to funds:								
(a) Contributory Provident Fund	6,941.00				6,941.00		6,751.00	
(b) AIISH Pension Fund	7,69,827.00				7,69,827.00		7,71,390.00	
(c) Internal Revenue trd. to AIISH Pension Fund	*44,20,000.00				44,20,000.00		47,12,000.00	
Interest on Funds: (a) Contributory Provident Fund	17,381.00				17,381.00		13,457.00	
(b) General Provident Fund	7,97,067.00				7,97,067.00		6,93,893.00	
Professional Services: Actuals	1,02,000.00		2,000.00		1,04,000.00		1,00,605.00	
Add outstanding 2002-03	30,250.00		0.00		30,250.00		1,600.00	
Other charges (Annexure-3): Actuals	44,74,669.72		23,41,780.28		68,16,450.00			
Add outstanding 2002-03	4,37,489		1,13,813.00		5,51,302.00		60,09,472.03	

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

Expenditure	Non-Plan		Plan		Current Year		Previous year	
	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
AIISH Research Activities : Actuals			4,16,831.60		4,16,831.60		1,18,383.00	
Add outstanding			45,597.00		45,597.00		24,000.00	
Project on Prevention of Deafness and Hearing-impairment :								
Actuals			5,75,183.86		5,75,183.86		9,93,637.30	
Add outstanding 2002-03			39,496.00		39,496.00		26,890.00	
Other payments (Annexure I)	1,69,355.00				1,69,355.00			
Apprenticeship	22,604.00				22,604.00		1,09,990.10	
Total	2,95,60669.72		38,72,727.74		3,34,33397.46		3,12,17,686.43	

Accounts Officer/Admn. Officer

Director

Chartered Accountants

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

Income and Expenditure account for the year ended 31st March 2003

Income	Non-Plan		Plan		Current Year		Previous year	
	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
Grant-in-aid from GOI, Min. of H & FW - received during the year	2,10,00,000.00		8,40,00,000.00		10,50,00,000.00		6,57,40,000.00	
Less grants sanctioned for the year 2000-2001 but received during 2002-03		0.00	1,40,00,000.00		1,40,00,000.00		10,00,000.00	
	2,10,00,000.00		7,00,00,000.00		9,10,00,000.00		6,47,40,000.00	
Add grants sanctioned for the year 2002-03 but not received as on 31.3.2003		0.00		0.00		0.00	1,40,00,000.00	
Total	2,10,00,000.00		7,00,00,000.00		9,10,00,000.00		7,87,40,000.00	
Less : Amount carried over to Balance sheet	10,10,315.56		6,61,27,272.26		6,71,37,587.82		5,59,87,384.70	
Amount of revenue expenditure out of grant	1,99,89,684.44		38,72,727.74		2,38,62,412.18		2,27,52,615.30	
Other income : Internal revenues (Annexure-1) Actuals	88,31,181.08		0.00		88,31,181.08		79,29,740.43	
Income accrued due (interest on SB A/c. 839050-MGPO - Annexure I)	61,445.70		0.00		61,445.70		39,044.20	
Other receipts (Annexure 4)	6,78,358.50		0.00		6,78,358.50		4,96,286.50	
Total	2,95,60,669.72		38,72,727.74		3,34,33,397.46		3,12,17,686.43	

Accounts Officer/Adminn. Officer

Director

Chartered Accountants

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

Receipts and Payments account for the year ended 31st March 2003

Receipts	Rs.	Ps.	Rs.	Ps.	Amount		Current Year	Previous Year
					Rs.	Ps.	Rs.	Ps.
Opening Balance : Cash on hand		4,458.82						
Cash at Bank BOB SB A/c. No.176	23,08,047.50							
Total	23,12,506.32		23,12,506.32					
Add: Amount reflected under ADIP Scheme					5,659.50			
	23,18,165.82		23,18,165.82		23,18,165.82		1,10,95,585.34	
(1) Grant-in-aid from Ministry of Health & Family Welfare - Non-Plan								
- Plan			2,10,00,000.00					
			8,40,00,000.00		10,50,00,000.00		6,57,40,000.00	
(2) Other receipts towards								
(a) Other Receipt particulars (Annexure 4)			6,78,358.50		4,96,286.50			
(b) Internal revenues (Annexure 1)			87,23,271.78		79,29,740.43			
(c) Cost of material/works recovered and transferred			2,16,162.00		13,52,055.55			
(d) Capital Fund: Capitalization of the cost of mobile van			14,447.00		26,94,337.90			
(e) Transfer to Capital Fund (EMD & Security deposits)			58,586.00		-			

Receipts	Rs.	Ps.	Rs.	Ps.	Amount		Current Year	Previous Year
					Rs.	Ps.	Rs.	Ps.
(3) Deposits & Advances from outside parties (Schedule-B)					18,05,846.00			
(4) HRA arrears								763.00
(4) Funds (Schedule-A)					13,11,750.00		-	
(7) Sponsored programmes and other schemes (Schedule-E)					5,28,900.65		-	
(8) Remittance and other Accounts (Schedule C)							-	88,494.30
Total					12,06,55,487.75		8,93,97,263.02	

Accounts Officer/Admn. Officer

Director

Chartered Accountants

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

Receipts and Payments account for the year ended 31st March 2003

Receipts	Rs.	Ps.	Rs.	Ps.	Amount			
					Current Year		Previous Year	
	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
A. RECURRING EXPENDITURE:								
1. Salaries and allowances (Annexure-2)	1,53,98,851.00		1,15,260.00		1,55,14,111.00		1,51,17,000.00	
2. Travelling allowance	4,68,267.00		1,17,837.00		5,86,104.00		5,31,801.00	
3. Contribution to funds: i) LS and PC deputationist	8,232.00			-	8,232.00		40,195.00	
ii) GPF interest	7,97,067.00			-	7,97,067.00		6,93,893.00	
iii) CPF interest	17,381.00			-	17,381.00		13,457.00	
v) Employers' contribution to CPF	6,941.00			-	6,941.00		6,751.00	
vi) AIISH Pension Fund	7,69,827.00			-	7,69,827.00		7,71,390.00	
4. Merit scholarship/stipend	8,45,966.00		25,110.00		8,71,076.00		4,65,542.00	
5. Other charges (Annexure-3)	44,74,669.72		23,41,780.28		68,16,450.00		56,14,589.03	
6. AIISH Research activities		-	4,16,831.60		4,16,831.60		1,18,383.00	
7. Professional services	1,02,000.00		2,000.00		1,04,000.00		1,00,605.00	
Other payments								
8. Apprenticeship	22,604.00			-	22,604.00		1,09,990.10	
9. Project on Prevention of Deafness & Hearing-Impairment.		-	5,75,183.86		5,75,183.86		9,93,637.30	
B. NON-RECURRING EXPENDITURE								
1. Fixed and other assets/gift equipment (Schedule-F)	21,168.00		6,82,84,532.00		6,83,05,700.00		3,97,99,551.65	
2. Deposits and advances of outside parties (Schedule-B)		-		-		-	26,569.00	

Receipts	Rs.	Ps.	Rs.	Ps.	Amount		Previous Year	
					Current Year	Rs.	Ps.	Rs.
3. Advance to staff (Schedule-G)	46,537.00			-	46,537.00		1,10,962.00	
4. Deposits/Advance to contractors/suppliers (Schedule-H)	37,88,033.89			-	37,88,033.89		1,19,47,840.77	
5. Investment (Schedule-I)	71,94,819.00			-	71,94,819.00		12,29,919.00	
6. Funds (Schedule-A)		-		-		-	11,34,058.00	
7. Sponsored programmes and other scheme (Schedule-E)		-		-		-	29,52,160.20	
8. Remittances and other accounts (Annexure 5)	1,63,619.96			-	1,63,619.96			
9. Out-standing expenses (Schedule-D)	17,02,976.00		50,32,885.00		67,35,861.00		40,94,716.00	
10. Assets written-off (Schedule-F)		-		-		-	11,99,078.38	
11. Capital fund account	53,026.00			-	53,026.00			-
12. Better mould project		-		-		-	7,008.77	
Total	3,58,81,985.57		7,69,11,419.74		11,27,93,405.31		8,70,79,097.20	
Closing balance: Cash on hand	70,661.79							
Cash at Bank : BOB SB A/c.176	77,57,361.15							
Less: Amount due to ADIP Scheme	34,059.50				78,62,082.44		23,18,165.82	
Total					12,06,55,487.75		8,93,97,263.02	

Accounts Officer/Admn. Officer

Director

Chartered Accountants

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

Details of Internal Revenues 2002-03

Annexure-1

Sl. No.	Head of Account	Debit/payments		Credit/receipts	
		Rs.	Ps.	Rs.	Ps.
1.	Admission fee (Hostels)	91,522.00		93,832.00	
2.	Admission fee (Institute)	18,170.00		1,014,642.00	
3.	Application fees	515.00		148,610.00	
4.	Certificate fee (Cases)	130.00		539,525.00	
5.	Certificate fee (Students)	0.00		563,775.00	
6.	Depreciation charges	320.00		6,480.00	
7.	Dharmashala charges	275.00		13,530.00	
8.	Donation	0.00		989,754.00	
9.	Email/Internet fee	1,200.00		216,500.00	
10.	Rent (Guest House)	2,377.00		218,613.00	
11.	Rent (Hostel)	2,496.00		57,204.00	
12.	Infrastructure assistance - ADIP Scheme	420.00		48,390.00	
13.	Infrastructure assistance - Rehabilitation Council of India	20,250.00		78,200.00	
14.	Interest on Advances	0.00		3,431.00	
15.	Interest on GPF	0.00		438,520.00	

Sl. No.	Head of Account	Debit/payments		Credit/receipts	
		Rs.	Ps.	Rs.	Ps.
16.	Interest on HBA	0.00		119,987.00	
17.	Interest on Investments	0.00		3,403,654.20	
18.	Interest on S.B A/c	6,751.00		161,795.70	
19.	Library membership/card fee	250.00		52,925.00	
20.	Licence fee	1,632.00		136,902.00	
21.	Miscellaneous income	18,279.00		157,104.88	
22.	Orientation/short-term course fee	2,334.00		6,580.00	
23.	Registration fee	0.00		67,595.00	
24.	Sale of Journals/syllabus/prospectus	50.00		34,160.00	
25.	Sanitary charges	200.00		4,050.00	
26.	Technical consultancy services	0.00		21,630.00	
27.	Tender form fee	2,184.00		176,112.00	
28.	Therapy charges	0.00		119,125.00	
Total		169,355.00		8,892,626.78	
Net receipts				8,723,271.78	

Accounts Officer/Admn. Officer

Director

Chartered Accountants

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

Details of Salaries and Allowances - 2002-2003

Annexure-2

Sl.No.	Particulars	Non-Plan	Plan	Total
1.	Salaries - Officers	67,14,896.00	1,15,260.00	68,30,156.00
2.	Salaries - Establishment	99,23,326.00	0.00	99,23,326.00
3.	Overtime allowance	4,009.00	0.00	4,009.00
4.	Children education allowance	13,750.00	0.00	13,750.00
5.	Medical charges	1,17,914.00	0.00	1,17,914.00
6.	Leave travel concession	*-1,400.00	0.00	*-1,400.00
	Total	1,67,72,495.00	1,15,260.00	1,68,87,755.00
	(-) Outstanding 2001-2002	13,73,644.00	0.00	13,73,644.00
		1,53,98,851.00	1,15,260.00	1,55,14,111.00
	(+) Outstanding 2002-2003	14,68,461.00	76,491.00	15,44,952.00
	Total	1,68,67,312.00	1,91,751.00	1,70,59,063.00

* Receipt due to adjustment of previous years transactions

Accounts Officer/Admn. Officer

Director

Chartered Accountants

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

Details of Other Charges - 2002 - 2003

Annexure-3

Sl.No.	Particulars	Non-Plan (in Rs)	Plan (in Rs)	Total (in Rs)
1.	Advertisement	1,98,581.00	1,56,082.00	3,54,663.00
2.	Affiliation fees	1,80,600.00	0.00	1,80,600.00
3.	Anniversary expenses	86,398.75	0.00	86,398.75
4.	Audit fees	6,300.00	0.00	6,300.00
5.	Camp expenditure	1,298.00	0.00	1,298.00
6.	Consumables - General	6,11,756.28	5,50,898.00	11,62,654.28
7.	Consumables - Earmoulds	68,537.00	0.00	68,537.00
8.	Consumables - Spares	67,506.00	0.00	67,506.00
9.	Contingencies	1,78,703.50	2,850.00	181,553.50
10.	Development of campus	0.00	14,398.00	14,398.00
11.	Electricity charges	8,45,962.00	3,62,555.00	12,08,517.00
12.	Entertainment	31,051.45	0.00	31,051.45
13.	Grant-in-aid to AIISH Gymkhana	50,000.00	0.00	50,000.00
14.	Liveries and linen	23,309.00	0.00	23,309.00
15.	Maintenance of building - electrical	61,974.00	0.00	61,974.00
16.	Maintenance of building - civil	2,30,435.00	0.00	2,30,435.00
17.	Maintenance of furniture	27,108.00	0.00	27,108.00
18.	Maintenance of garden	29,882.95	0.00	29,882.95
19.	Maintenance of TE/OE	1,95,969.30	5,02,430.00	6,98,399.30

Sl.No.	Particulars	Non-Plan (in Rs)	Plan (in Rs)	Total (in Rs)
20.	Maintenance of vehicle	1,07,841.94	26,960.00	1,34,801.94
21.	Postage and telegram	75,627.80	18,907.00	94,534.80
22.	Printing and stationery	3,04,330.80	76,082.00	3,80,412.80
23.	Public education & publicity	0.00	6,988.00	6,988.00
24.	Seminars/symposia/workshops	10,276.65	63,325.28	73,601.93
25.	Spares and accessories	0.00	3,33,414.00	3,33,414.00
26.	Subscription to Journals/periodicals	13,468.00	0.00	13,468.00
27.	Subsidy to Departmental Canteen	2,56,397.90	0.00	2,56,397.90
28.	Telephone charges/fax charges	2,12,560.40	53,140.00	2,65,700.40
29.	Wages	7,32,424.00	3,48,338.00	10,80,762.00
30.	Xerox charges	41,216.00	0.00	41,216.00
31.	VIP/Dignitaries Account	45,450.00	0.00	45,450.00
Total		46,94,965.72	25,16,367.28	72,11,333.00
(-) Out-standing 2000-01 (includes wages P)		2,20,296.00	1,74,587.00	3,94,883.00
		44,74,669.72	23,41,780.28	68,16,450.00
(+) Out-standing 2002-03		4,37,489.00	1,13,813.00	5,51,302.00
Total		49,12,158.72	24,55,593.28	73,67,752.00

Accounts Officer/Admn. Officer

Director

Chartered Accountants

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

Other Receipts for the year 2002-03

Annexure-4

Sl.No.	Head of Account	Total
1.	Sale of earmoulds	1,46,735.00
2.	Sale of hearing aid spares	32,075.50
3.	Water charges	4,99,548.00
	Total	6,78,358.50

Accounts Officer/Admn. Officer

Director

Chartered Accountants

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

Details of Remittances and Other Accounts 2002-03

Annexure-5

Sl. No.	Details	Payments		Receipts	
		Rs.	Ps.	Rs.	Ps.
1.	AIISH Staff Club/Gymkhana	30,065.00		30,065.00	
2.	Awards	439.00		439.00	
3.	CTD/RD/CD recoveries	78,060.00		78,110.00	
4.	Establishment charges	2,02,836.00		2,02,836.00	
5.	Examination fee	66,855.00		66,455.00	
6.	Examination remuneration	6,051.00		0.00	
7.	GPF/CPF deputationist	1,31,000.00		1,31,000.00	
8.	CGEIS	3,780.00		3,780.00	
9.	GSLIS	91,511.00		64,961.00	
10.	Income tax	16,04,571.00		16,03,351.00	
11.	Interest accrued due	61,445.70		39,044.20	
12.	CGECE	1,480.00		1,480.00	
13.	LIC premia	10,77,701.30		10,78,393.30	
14.	Mess advance	1,93,840.00		1,12,000.00	
15.	Housing loan recoveries (others)	1,90,405.00		1,90,405.00	
16.	Professional tax	1,40,350.00		1,40,025.00	

Sl. No.	Details	Payments		Receipts	
		Rs.	Ps.	Rs.	Ps.
17.	Royalties	55,441.00		55,117.00	
18.	Sales tax	21,77,675.00		21,74,861.00	
19.	Student Association	19,800.00		19,800.00	
20.	Suspense account	2,23,898.76		2,08,412.30	
21.	University of Mysore	3,50,930.00		3,50,930.00	
22.	Unpaid salaries	7,353.00		403.00	
Total		67,15,487.76		65,51,867.80	
Net Payment				1,63,619.96	

Accounts Officer/Admn. Officer

Director

Chartered Accountants

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

Funds 2002-03

Schedule - A

Particulars	Con.Provident Fund		Gen.Provident Fund		Pension Fund		Total	
	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
Opening balance as on 1.4.2002	1,67,631.00		87,58,092.00		1,12,59,865.99		2,01,85,588.99	
Receipts during the year:-								
Subscriptions	47,064.00		40,16,798.00		0.00		40,63,862.00	
Institute's contribution	6,941.00		0.00		8,02,596.00		8,09,537.00	
Interest on subscription	7,214.00		7,97,067.00		0.00		8,04,281.00	
Interest on contribution	10,167.00		0.00		0.00		10,167.00	
Interest on investments	0.00		0.00		8,33,136.00		8,33,136.00	
Amount transferred from internal revenues	0.00		0.00		44,20,000.00		44,20,000.00	
Total receipts	71,386.00		48,13,865.00		60,55,732.00		1,09,40,983.00	
Payments during the year :-								
Final payments/withdrawals/advances	0.00		32,21,165.00		0.00		32,21,165.00	
Payment of gratuity	0.00		0.00		91,707.00		91,707.00	
Pension/Family pension	0.00		0.00		17,94,342.00		17,94,342.00	
Commuted value of pension	0.00		0.00		1,02,019.00		1,02,019.00	
Total Payments	0.00		32,21,165.00		19,88,068.00		52,09,233.00	
Closing balance as on 31.3.2003	2,39,017.00		1,03,50,792.00		1,53,27,529.99		2,59,17,338.99	
					Net Receipt		13,11,750.00	
Accounts Officer/Admn. Officer			Director				Chartered Accountants	

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

Deposits and Advances of outside parties - 2002-2003

Schedule - B

Sl.No.	Particulars	Balance as on		Receipts		Payments		Balance as on	
		1.4.2002						31.3.2003	
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
1	Caution money deposit	2,63,050.00		3,39,850.00		1,55,000.00		4,47,900.00	
2	Contractor's security deposit	16,77,693.50		29,84,835.00		13,01,283.00		33,61,245.50	
3	Earnest money deposit	2,58,881.00		9,92,187.00		10,54,743.00		1,96,325.00	
Total		21,99,624.50		43,16,872.00		25,11,026.00		40,05,470.50	
							Net Receipt	18,05,846.00	

Accounts Officer/Admn. Officer

Director

Chartered Accountants

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

Remittances Due 2002-2003

Schedule - C

Sl.No.	Particulars	Opening		Receipts/		Payments/		Closing	
		balance		Credits		Debits		balance	
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
1.	AIISH Staff Club/Gymkhana		0.00	30,065.00		30,065.00		0.00	
2.	Awards		0.00	439.00		439.00		0.00	
3.	CTD/RD/CD recoveries		-50.00	78,110.00		78,060.00		0.00	
4.	Establishment charges		0.00	2,02,836.00		2,02,836.00		0.00	
5.	Examination fee		400.00	66,455.00		66,855.00		0.00	
6.	Examination remuneration		1,369.00	0.00		6,051.00		-4,682.00	
7.	GPF/CPF deputationist		0.00	1,31,000.00		1,31,000.00		0.00	
8.	CGEIS		0.00	3,780.00		3,780.00		0.00	
9.	GSLIS		26,550.00	64,961.00		91,511.00		0.00	
10.	Income tax		1,220.00	16,03,351.00		16,04,571.00		0.00	
11.	Interest accrued due		-39,044.20	*39,044.20		0.00		0.00	
12.	CGECE		0.00	1,480.00		1,480.00		0.00	
13.	LIC premia		-692.00	10,78,393.30		10,77,701.30		0.00	
14.	Mess advance		81,840.00	1,12,000.00		1,93,840.00		0.00	

Sl.No.	Particulars	Opening balance		Receipts/ Credits		Payments/ Debits		Closing balance	
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
15.	Housing loan recoveries (others)		0.00		1,90,405.00		1,90,405.00		0.00
16.	Professional tax		325.00		1,40,025.00		1,40,350.00		0.00
17.	Royalties		324.00		55,117.00		55,441.00		0.00
18.	Sales tax		2,814.00		21,74,861.00		21,77,675.00		0.00
19.	Student Association		0.00		19,800.00		19,800.00		0.00
20.	Suspense account		21,522.46		2,08,412.30		2,23,898.76	**6,036.00	
21.	University of Mysore		0.00		3,50,930.00		3,50,930.00		0.00
22.	Unpaid salaries		6,950.00		403.00		7,353.00		0.00
Total			1,03,528.26		65,51,867.80		66,54,042.06		1,354.00

* rectification entry

** Rs.6,000/- paid in 4/03 vide voucher No. and particulars for Rs.36/- is being traced.

Accounts Officer/Admn. Officer

Director

Chartered Accountants

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

Other Liabilities - 2002-2003

Schedule-D

Sl.No.	Particulars	Opening balance		(-) Debit		(+) Credit		Closing balance	
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
Non-Plan									
1.	Salaries and allowances	13,73,644.00		13,73,644.00		14,68,461.00		14,68,461.00	
2.	Stipend/scholarship	1,07,436.00		1,07,436.00		1,02,428.00		1,02,428.00	
3.	Professional services	1,600.00		1,600.00		30,250.00		30,250.00	
4.	Other charges	2,20,296.00		2,20,296.00		4,37,489.00		4,37,489.00	
5.	Travelling allowance	0.00		0.00		20,881.00		20,881.00	
Total Non-Plan		17,02,976.00		17,02,976.00		20,59,509.00		20,59,509.00	
Plan									
6.	Technical equipment	92,300.00		92,300.00		49,734.00		49,734.00	
7.	Furniture	0.00		0.00		15,300.00		15,300.00	
8.	Other charges	1,60,458.00		1,60,458.00		84,370.00		84,370.00	
9.	Major works	41,87,931.00		41,87,931.00		31,30,732.00		31,30,732.00	
10.	Minor works	5,27,177.00		5,27,177.00		0.00		0.00	
11.	Electricity charges	0.00		0.00		8,443.00		8,443.00	
12.	Wages	14,129.00		14,129.00		21,000.00		21,000.00	

Sl.No.	Particulars	Opening balance		(-) Debit		(+) Credit		Closing balance	
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
13.	Project - Prevention of Deafness & Hearing Impairment	26,890.00		26,890.00		39,496.00		39,496.00	
14.	AIISH Research activities	24,000.00		24,000.00		45,597.00		45,597.00	
15.	<i>Salaries & allowances</i>	0.00		0.00		76,491.00		76,491.00	
16.	Stipend	0.00		0.00		3,328.00		3,328.00	
Total Plan		50,32,885.00		50,32,885.00		34,74,491.00		34,74,491.00	
Grand Total		67,35,861.00		67,35,861.00		55,34,000.00		55,34,000.00	

Accounts Officer/Admn. Officer

Director

Chartered Accountants

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

Sponsored Programmes and Other Schemes - 2002-2003

Schedule-E

Sl.No.	Particulars	Opening Balance		Receipts		Payments		Closing Balance	
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
Other Schemes									
1.	Patients Welfare Fund	97,780.30		10,719.00		75.00		1,08,424.30	
2.	Camp organizers account	2,027.00		55,500.00		50,855.00		6,672.00	
3.	Project - Speech Perception	0.00		5,04,603.00		1,12,397.00		3,92,206.00	
4.	Workshop on calibration in Audiometers	0.00		33,500.00		33,500.00		0.00	
5.	WHO -Training Modules on POD	4,22,313.00		35,867.00		1,176.00		4,57,004.00	
6.	WHO short term training program	0.00		25,750.00		0.00		25,750.00	
7.	WHO - Seminar on the rehabilitation of Hearing impaired	85,307.00		4,093.00		0.00		89,400.00	
8.	WHO workshop for Health workers and other gross root level workers on Prevention, Identification and Management of Communication Disorders	1,53,683.00		0.00		4,011.00		1,49,672.00	
9.	SOCCS	4,628.00		370.00		4,998.00		0.00	
10.	ICMR	71,430.51		5,710.00		1,500.00		75,640.51	

Sl.No.	Particulars	Opening Balance		Receipts		Payments		Closing Balance	
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
11.	UNICEF	15,637.50		2,086.00		0.00		17,723.50	
12.	Scheme under Helpage India	78,804.00		6,220.00		673.00		84,351.00	
13.	Mobile unit under the aid of GOK	2,76,386.55		0.00		2,76,386.55		0.00	
14.	Research Project on development of milestones of language acquisition in Indian languages	3,156.20		0.00		0.00		3,156.20	
15.	Project on development of FM hearing aid	0.00		2,29,600.00		84,774.25		1,44,825.75	
Total Liabilities		12,11,153.06		9,14,018.00		5,70,345.80		15,54,825.26	
Assets									
16.	Project on TOSHI	-1,94,402.00		1,69,673.00		0.00		-24,729.00	
17.	Grant - RCI*	-58,732.35		10,14,886.00		9,99,330.55		-43,176.90	
Total Assets		-2,53,134.35		11,84,559.00		9,99,330.55		-67,905.90	
Grand Total		9,58,018.71		20,98,577.00		15,69,676.35		14,86,919.36	

* Grants received from RCI in April 2003 Rs.67,500 vide DD No.67560 dated 28.3.2003.

Net Receipt 528,900.65

Accounts Officer/Admn. Officer

Director

Chartered Accountants

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

Fixed and Other Assets - 2002-2003

Schedule-F

Sl. No	Particulars	Balance as on 1.4.2002		Additional purchase						Recoveries Transfers Written off		Balance as on 31.3.2003	
				Non-plan actuals		Plan actuals		Outstanding					
		Rs.	Ps.							Rs.	Ps.	Rs.	Ps.
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
1.	Building and other works												
	a) Completed buildings	2,65,91,285.29		0.00		0.00		0.00		0.00		2,65,91,285.29	
	b) Works in-progress	5,67,08,729.15		0.00		5,18,80,049.00		31,30,732.00		1,11,994.00		11,16,07,516.15	
2.	Furniture and fixtures	57,50,229.26		0.00		28,24,554.00		15,300.00		1,10,766.35		84,79,316.91	
3.	Garden equipment	68,319.17		0.00		0.00		0.00		4,211.04		64,108.13	
4.	Library and documentation	1,01,66,341.03		0.00		15,95,780.00		0.00		1,09,145.69		1,16,52,975.34	
5.	Vehicles												
	a) Car (2 nos.)	5,14,319.00		0.00		0.00		0.00		0.00		5,14,319.00	
	b) Omni bus	2,51,095.57		0.00		0.00		0.00		0.00		2,51,095.57	
	c) Mobile unit	27,46,185.90		0.00		14,447.00		0.00		0.00		27,60,632.90	
6	Office equipment	47,82,116.04		2,060.00		3,32,948.00		0.00		35,008.15		50,82,115.89	
7	Technical equipment	3,75,83,126.59		0.00		1,16,36,754.00		49,734.00		26,608.70		4,92,43,005.89	
8.	Gifted equipment	1,33,06,063.59		0.00		0.00		0.00		2,552.50		1,33,03,511.09	

Sl. No	Particulars	Balance		Additional purchase						Recoveries		Balance as on	
		as on 1.4.2002		Non-plan actuals		Plan actuals		Outstanding		Transfers		31.3.2003	
		Rs.	Ps.							Written off		Rs.	Ps.
				Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.		
9. Sundry assets													
	a) Hostel utensils	1,21,530.71		19,108.00		0.00		0.00		0.00		1,40,738.71	
	b) Teaching aids	2,27,062.92		0.00		0.00		0.00		0.00		2,27,062.92	
Total		15,88,16,404.22		21,168.00		6,82,84,532.00		31,95,766.00		4,00,286.43		22,99,17,583.79	
Break up:		Written off		1,84,124.43		* Reduction in Capital Fund Direct receipts/credits							
		Recoveries		2,16,162.00									
				4,00,286.43									

Accounts Officer/Admn. Officer

Director

Chartered Accountants

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

Statement showing details of works in progress as on 31.3.2003

Major works in progress (PLAN)

Schedule-F1 (Page-1)

Sl. No	Particulars	Opening balance as on 1.4.2002	Expenditure 2002-2003						Closing balance as on 31.3.2003
			Additions		Outstanding liability		Credits		
			Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	
1.	Sports complex (AIISH Gymkhana)	76,81,364.00	44,16,777.00		3,34,598.00		2,000.00		1,24,30,739.00
2.	Modification of Audiology block	65,87,801.50	52,841.00		0.00		0.00		66,40,642.50
3.	Library block	1,85,54,663.00		0.00	0.00		0.00		1,85,54,663.00
4.	Construction of compound wall - Dharmashala	12,31,109.00		0.00	0.00		0.00		12,31,109.00
5.	Construction of multipurpose vehicle garage	18,20,903.00		0.00	0.00		94,078.00		17,26,825.00
6.	Construction of stone masonry compound wall (main campus)	29,38,343.00	3,05,133.00		0.00		9,430.00		32,34,046.00
7.	Construction of Speech-Language Therapy Clinic	1,12,28,816.00	2,77,33,108.00		1,85,761.00		3,000.00		3,91,44,685.00
8.	Electrical work	0.00	29,03,740.00		2,64,393.00		0.00		31,68,133.00
9.	Computer Networking	0.00	8,51,783.00		0.00		0.00		8,51,783.00
10.	Providing Yelhanka tiles for terrace roof	0.00	11,85,075.00		0.00		0.00		11,85,075.00

Sl. No.	Particulars	Opening balance as on 1.4.2002	Expenditure 2002-2003						Closing balance as on 31.3.2003
			Additions		Outstanding liability		Credits		
			Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	
11.	Providing and fixing sun control film for doors and windows	0.00	2,51,265.00		0.00		0.00		2,51,265.00
12.	Providing lift	0.00	7,15,446.00		0.00		0.00		7,15,446.00
13.	Developmental works	0.00	19,30,063.00		0.00		0.00		19,30,063.00
14.	Construction of generator room	5,31,615.00	3,75,932.00		0.00		3,486.00		9,04,061.00
15.	Modification of canteen	7,31,223.00	44,585.00		0.00		0.00		7,75,808.00
16.	Construction of Preschool	0.00	60,30,474.00		22,91,530.00		0.00		83,22,004.00
17.	Hearing aid lab	0.00	233,835.00		0.00		0.00		2,33,835.00
18.	UG cable and street lights	6,25,323.00	7,88,257.00		0.00		0.00		14,13,580.00
19.	UG cable and street lights to Dharmashala	0.00	4,06,394.00		0.00		0.00		4,06,394.00
20.	Construction of compound wall and garage to D type quarters	0.00	6,55,178.00		47,184.00		0.00		7,02,362.00
21.	Construction of main garage	825.00	825.00		0.00		0.00		825.00
22.	Alteration to E type staff quarters	0.00	7,08,258.00		0.00		0.00		7,08,258.00
23.	Alteration to A & B staff quarters	0.0	6,90,669.00		0.00		0.00		6,90,669.00
24.	Alteration to D1-D7 staff quarters	0.00	54,850.00		0.00		0.00		54,850.00
25.	Parking at Speech block	0.00	2,29,593.00		0.00		0.00		2,29,593.00
Total		5,19,31,160.50	5,05,56,815.00		31,30,732.00		1,11,994.00		10,55,06,713.50

Accounts Officer/Admn. Officer

Director

Chartered Accountants

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

Statement showing details of works in progress as on 31.3.2003

Minor works in progress (PLAN)

Schedule-F2

Sl. No.	Particulars	Opening balance as on 1.4.2002	Expenditure 2002-2003				Closing balance as on 31.3.2002
			Debits		Credits		
			Rs.	Ps.	Rs.	Ps.	
1.	Electrification work of shifting power line/ conversion of overhead - New Library block	5,00,850.00		0.00			5,00,850.00
2.	Repair/replacement of worn-out sanitary work at Ladies hostel	2,49,063.00		0.00		0.00	2,49,063.00
3.	Fixing Curbstone at AIISH	3,05,498.00		0.00		0.00	3,05,498.00
4.	Repair/replacement of worn-out sanitary work at Gents hostel	2,02,392.00		0.00		0.00	2,02,392.00
5.	Improvement to AIISH Departmental Canteen	26,712.00		0.00		0.00	26,712.00
6.	Storm water drain at new library building	1,28,767.00		0.00		0.00	1,38,767.00
7.	Development of road to library building	4,988.00		0.00		0.00	4,988.00
8.	Construction of pump house to new library building	1,05,669.00		0.00		0.00	1,05,669.00
9.	Providing and fixing 2" pipeline near bore well of library building and providing and laying stoneware pipe and construction of manhole chambers	96,788.00		0.00		0.00	96,788.00
10.	Underground drainage line	12,25,054.00		0.00		0.00	12,25,054.00

Sl. No.	Particulars	Opening balance as on 1.4.2002	Expenditure 2002-2003				Closing balance as on 31.3.2002
			Debits		Credits		
			Rs.	Ps.	Rs.	Ps.	
11.	Two-wheeler parking near library	55,062.00		0.00		0.00	55,062.00
12.	Construction of ramp near quadrangle	22,711.00		0.00		0.00	22,711.00
13.	Renovation of bathrooms	2,05,168.00		0.00		0.00	2,05,168.00
14.	Shifting of HT line	1,24,448.00		0.00		0.00	1,24,448.00
15.	Formation of road to sports complex	2,25,037.00	12,739.00			0.00	2,37,776.00
16.	Interior decoration of guest house	56,584.00	66,600.00			0.00	1,23,184.00
17.	Construction of sump tank at new library building	15,930.00		0.00		0.00	15,930.00
18.	Work of providing and laying concrete over drain at children therapy park entrance	7,975.00		0.00		0.00	7,975.00
19.	Re-routing of underground cable from guest house to power house	3,21,624.65		0.00		0.00	3,21,624.65
20.	Construction of security booth near guest house and ladies hostel	2,31,573.00	1,69,438.00			0.00	4,01,011.00
21.	Widening of road from main gate leading to new therapy clinic	2,12,104.00	12,501.00			0.00	2,24,605.00
22.	Bore well near therapy clinic	41,400.00		0.00		0.00	41,400.00
23.	Bore well near men's hostel	42,100.00		0.00		0.00	42,100.00
24.	Sign boards near Library and Guest House	0.00	20,700.00			0.00	20,700.00
25.	Aluminium partition to Electronics Department (F.37)	0.00	11,055.00			0.00	11,055.00
26.	Construction of sump tank in men's hostel (F.39)	0.00	65,881.00			0.00	65,881.00

Sl. No.	Particulars	Opening balance as on 1.4.2002	Expenditure 2002-2003				Closing balance as on 31.3.2002
			Debits		Credits		
			Rs.	Ps.	Rs.	Ps.	
27.	Conversion of double room to single room	0.00	46,304.00		0.00	46,304.00	
28.	Renovation of bathroom near Medical records and Speech Pathology (F.21)	0.00	4,21,189.00		0.00	4,21,189.00	
29.	Construiction of small room for installing switch (network) behind D-5 quarters	0.00	19,457.00		0.00	19,457.00	
30.	UG cable and street lights (F.3)	0.00	1,71,451.00		0.00	1,71,451.00	
31.	New wiring of Earmould lab (F.45)	0.00	1,41,117.00		0.00	1,41,117.00	
32.	Providing and fixing powder coated aluminium sliding windows (F.47)	0.00	1,31,896.00		0.00	1,31,896.00	
33.	Renovation of Speech Language Sciences	0.00	32,906.00		0.00	32,906.00	
34.	Water drain to new Library block	3,60,071.00		0.00	0.00	3,60,071.00	
Total		47,77,568.65	13,23,234.00		0.00	61,00,802.65	

Accounts Officer/Admn. Officer

Director

Chartered Accountants

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

Advances to staff - 2002-2003

Schedule-G

Sl.No.	Particulars	Balance as on 1.4.2002		Additions/ Debits		Recoveries/ Credits		Balance as on 31.3.2003	
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
A. Bearing Interest									
1.	House building advance	7,37,842.00		3,540.00		2,68,934.00		4,72,448.00	
2.	Scooter advance	4,43,043.00		1,37,600.00		1,02,709.00		4,77,934.00	
3.	Cycle advance	11,560.00		37,830.00		20,040.00		29,350.00	
4.	Motor car advance	25,300.00		2,85,175.00		43,675.00		2,66,800.00	
B. Not bearing interest									
1.	Festival advance	43,250.00		1,23,300.00		1,27,650.00		38,900.00	
2.	Travelling allowance advance	5,987.00		75,779.00		55,431.00		26,335.00	
3.	LTC advance	3,256.00		1,752.00		0.00		5,008.00	
4.	Medical advance	1,688.00		0.00		0.00		1,688.00	
Total		12,71,926.00		6,64,976.00		6,18,439.00		13,18,463.00	

Net Payment 46,537.00

Accounts Officer/Admn. Officer

Director

Chartered Accountants

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

Sundry Debtors for Deposits and Advances : 2002-2003

Schedule-H

Sl. No.	Particulars	Opening balance as on 1.4.2002	Debits / Payments Rs. Ps.		Credits / Receipts Rs. Ps.		Closing balance as on 31.3.2003
A. Permanent							
1	Karnataka Power Transmission Corporation Ltd., (3MMD)	3,07,240.00	1,90,100.00		0.00		4,97,340.00
2	Telephone - Department of Telecommunication	14,400.00	5,000.00		0.00		19,400.00
3	M/s. Little Gas Co. Kitchen equipment system.	23,500.00		0.00	0.00		23,500.00
B. Temporary							
1	Deputy Controller of Accounts, Dept. of Supplies	3,693.11		0.00	0.00		3,693.11
2	PF A/c. with MGPO, Mysore SB A/c.839050	21,28,824.05	71,22,923.95		75,39,404.00		17,12,344.00
3	Pension fund A/c. with Bank of Baroda SB A/c. 177	13,40,881.99	60,36,551.00		66,90,118.00		6,87,314.99
4	Advances -Suppliers	40,54,892.82	3,58,50,805.43		3,83,24,587.49		15,81,110.76
5	Short-term fixed deposit with Bank	4,81,40,591.00	10,75,45,238.00		10,04,03,242.00		5,52,82,587.00
6	Loan with AIISH Departmental Canteen	40,479.00		0.00	12,000.00		28,479.00
7	Internal Revenue A/c. with Bank of Baroda SB A/c. No.196	22,770.36	16,255.00		38.00		38,987.36
8	TOSHI A/c. with Bank of Baroda SB A/c. 199	9,509.00		126.00	9,635.00		0.00
9	SB A/c. No.C & I 12 with State Bank of Mysore	1,456.50		59.00	0.00		1,515.50
Total		5,60,88,237.83	15,67,67,058.38		15,29,79,024.49		5,98,76,271.72

Net Payment 37,88,033.89

Accounts Officer/Admn. Officer

Director

Chartered Accountants

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

Investment 2002-03

Schedule-I

Sl. No.	Particulars	Balance as on 1.4.2002		Additions / Payments		Realizations/ Receipts		Balance as on 31.3.2003
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	
A. Contributory/General Provident Fund:-								
1.	Government Securities	1,40,000.00			0.00	0.00		1,40,000.00
2.	Units with Units Trust of India	16,00,000.00			0.00	0.00		16,00,000.00
3.	Fixed deposits with Bank of Baroda	14,34,760.00		46,14,467.00		0.00		60,49,227.00
4.	Deposit with KPTC Ltd.	34,00,000.00			0.00	24,00,000.00		10,00,000.00
B. Pension Fund:-								
1.	Government Securities	2,50,000.00			0.00	0.00		2,50,000.00
2.	Units with Units Trust of India	38,40,000.00			0.00	0.00		38,40,000.00
3.	Deposit with Bank of Baroda	10,44,745.00		59,70,205.00		10,00,000.00		60,14,950.00
C. Others: (CMD/Donations/PWF):-								
1.	Fixed deposit with State Bank of Mysore (PWF)	1,05,349.00		10,147.00		0.00		1,15,496.00
2.	Fixed deposit with Bank of Baroda (CMD)	3,78,723.00			0.00	0.00		3,78,723.00
3.	Fixed deposit with Bank of Baroda (Donations)	4,39,429.00			0.00	0.00		4,39,429.00

Sl. No.	Particulars	Balance as on 1.4.2002		Additions / Payments		Realizations/ Receipts		Balance as on 31.3.2003
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	
D. Endowment funds:-								
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		0.00		0.00		5,000.00
Total		1,26,48,006.00		1,05,94,819.00		34,00,000.00		1,98,42,825.00

Net Payment : 71,94,819.00

Accounts Officer/Admn. Officer

Director

Chartered Accountants

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006
ADIP Scheme (Government of India, Ministry of Social Justice and Empowerment
Balance Sheet as at 31st March 2003

Schedule-J

	Current year		Previous year			Current year		Previous Year	
	Rs.	Ps.	Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
Capital Fund:-					Closing Balance :-				
Opening balance	16,48,547.88		0.00		Closing stock of hearing aids	1,30,098.00		8,30,120.00	
Add: Excess of Income over									
Expenditure	37,366.00		16,48,547.88		Amount due from AIISH	14,330.50		0.00	
O/S liability									
- Audit fee payable	420.00		420.00		Bank of Baroda SB A/c	15,90,295.38		9,63,107.38	
- Sundry creditors	0.00		1,38,600.00		No. 184				
Amount due to AIISH	48,390.00		5,659.50						
Total	17,34,723.88		17,93,227.38		Total	17,34,723.88		17,93,227.38	

Accounts Officer/Admn. Officer

Director

Chartered Accountants

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

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

Income and Expenditure account for the year ended 31st March 2003

Schedule J-1

Expenditure		Amount				Income	Amount			
		Current year		Previous year			Current year		Previous year	
		Rs.	Ps.	Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
Opening stock	8,30,120.00					Grants from Ministry of Social Justice & Empowerment Interest on S.B. A/c. 184	25,00,000.00		13,00,000.00	
2002-03	18,74,796.00						21,974.00		39,349.00	
Less: Outstanding 2001-02	27,04,916.00									
	1,38,600.00									
	25,66,316.00									
Less: Closing stock	1,30,098.00									
		24,36,218.00		7,82,431.00						
Infrastructure assistance		47,970.00		19,675.00						
outstanding Contingencies		420.00		735.00						
Excess of income over expenditure transferred to balance sheet		37,366.00		5,36,508.00						
Total		25,21,974.00		13,39,349.00			25,21,974.00		13,39,349.00	

Accounts Officer/Admn. Officer

Director

Chartered Accountants

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

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

Receipts and Payments account for the year ended 31st March 2003

Schedule J-2

Expenditure	Amount				Income	Amount			
	Current year		Previous year			Current year		Previous year	
	Rs.	Ps.	Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
Opening balance :									
SB A/c with BOB - 184	9,63,107.38		10,74,668.38		Purchase of Hearing Aids	18,74,796.00		14,50,910.00	
Less: Amount due to AIISH*	19,990.00				Paid towards Infra- structural assistance	-		-	
Grants from Ministry of Social Justice and Empowerment, GOI	25,00,000.00		13,00,000.00		Closing balance:-	15,90,295.38		9,63,107.38	
Interest: S.B. A/c	21,974.00		39,349.00		SB A/c. with BOB - 184				
Total	34,65,091.38		24,14,017.38		Total	34,65,091.38		24,14,017.38	

Accounts Officer/Admn. Officer

Director

Chartered Accountants

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE 570 006

Replies to the observations on the Accounts of the institute for the year ended 31.3.2002

Sl.No.	Observations of the Chartered Accountants	Replies
1.	The institute is administering a Provident Fund and a Pension Fund for the benefit of its employees. These funds are held by the institute itself currently. In order to fall in line with the requirement of the relevant laws, the institute is to create a Trust which is independent of the institute to administer these funds independently with the necessary approvals from the appropriate authorities including Income tax authorities. Preferably two Trusts are to be created separately and the current accumulated funds are to be transferred to the respective Trust for administering the above funds henceforth. The institute can ensure effective implementation of the scheme of Provident Fund and Pension Fund. This would certainly be complying with the provisions of Law and is to be complied with.	The matter regarding establishment of a Trust for GPF and Pension Fund has been taken up for a decision with competent authority. The suggestion of audit will be implemented on approval from the Ministry.
2.	Action in respect of discrepancies noticed during physical verification of inventories needs to be speeded up.	Action to write off/repair of items has been taken up upto 2001-02 as pointed out by stock verification officers. The stock verification for the year 2002-03 has been completed (except for library). Action is being initiated to get the items traced, repaired and put to use and write off unserviceable items under the orders of the competent authority.

Sd/-

M/s. Aswathanarayana & Co.,
Chartered Accountants

DIRECTOR