

ANNUAL REPORT

1983-84

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

..I..

AUTHORITIES OF THE INSTITUTE:

The planning, organising, staffing, directing, co-ordinating, Administration, Management and Superintendence of the Institute vest in the following authorities:

1. The Executive Council
2. The Finance Sub-Committee
3. The Academic Sub-Committee
4. The Director
5. The Administrative Officer

COMPOSITION OF THE EXECUTIVE COUNCIL

- | | |
|---|-------------------------------|
| 1. Shri B.Shankaranand
Hon'ble Union Minister of Health
& Family Welfare, Govt. of India
Nirman Bhavan,
NEW DELHI - 110 011. | Chairman |
| 2. Shri P.G.R.Sindhia
Hon'ble Minister for Health & Family
Welfare, Government of Karnataka
Vidhana Soudha,
BANGALORE - 560 001. | Vice-Chairman
from 19.7.83 |
| 3. Prof.K.S.Hegde
Vice Chancellor
University of Mysore
MYSORE - 570 005. | Member |
| 4. Shri P.K.Umashankar
Additional Secretary (Health)
Ministry of Health & Family Welfare
Govt. of India, Nirman Bhavan,
NEW DELHI - 110 011. | Member
from 23.3.84 |
| 5. Shri R.M.Bharghava
Joint Secretary (FA)
Government of India
Ministry of Health & Family Welfare
(Department of Health)
Nirman Bhavan
NEW DELHI - 110 011 | Member
from 19.7.83 |

ANNUAL REPORT
1983-84

CONTENTS:

I. Organisational Chart	
II. Authorities of the Institute	I-IV
III. Important Decisions of the Executive Council	V-VI
IV. Objectives of the Institute	1-4
V. Highlights	5-8

DEPARTMENTAL REPORTS:

1. Speech Pathology	9-25
2. Audiology	26-62
3. Clinical Psychology	63-68
4. Otoloryngology (ENT)	69-71
5. Electronics	72-74
6. Publicity & Information	75-77
7. Library	78
8. Medical Records: Clinical Statistics	79-81
9. Civil Engineering	82-83
10. Horticulture	84
11. District Rehabilitation Centre	85-86
12. Establishment/Personnel	87-93
13. Social Welfare Scheme	94
14. Finance - Budget	95-96
15. Advisory Committees	97-98
16. Purchase / Training	99

.. II ..

6. Shri M.C.Narasimhan Member
Joint Secretary to Government of India
Ministry of Social Welfare
Shastri Bhavan
NEW DELHI - 110 001.
7. Dr.D.B.Bisht Member
Director General of Health Services from 19.7.83
Nirman Bhavan
NEW DELHI - 110 011
8. Sri N.P.Singh from 19.7.83
Sri M.C.Das from 23.3.84
Secretary to Govt. of Karnataka
(Department of Health & Family Welfare)
Multi-storeyed Building
BANGALORE - 560 001 Member
9. Dr.N.K.Channappa Member
Director of Medical Education
Ananda Rao Circle,
BANGALORE - 560 009.
10. Dr.R.M.Varma Member
Professor Emeritus
National Institute of Mental Health
and Neurosciences
III Cross, Lakshmi Road
Shanthinagar
BANGALORE - 560 007.
11. Dr.B.V.Rama Rao Member
Club Road
BELGAUM.
12. Sri.F.K.Irani Member
Managing Director
Ideal Jawa (I) Private Limited
Yadavagiri, MYSORE - 570 002.
13. Dr.(Miss) S Nikam Member
Professor & Head of the Dept of Audiology
All India Institute of Speech and Hearing
MYSORE - 570 006.
14. Dr.N Rathna Member Secretary
Director, All India Institute of
Speech and Hearing,
MYSORE - 570 006.

COMPOSITION OF THE FINANCE SUB-COMMITTEE

1. Shri P K Umashankar
Addl. Secretary
Ministry of Health & Family Welfare
Govt. of India, Nirman Bhavan
NEW DELHI - 110 011. Member
From 24.11.83
2. Shri R M Bharghava
Joint Secretary (FA)
Ministry of Health & Family Welfare,
Nirman Bhavan,
NEW DELHI - 110 011. Member
3. Deputy Secretary (MS)
Ministry of Health & Family Welfare
Nirman Bhavan
NEW DELHI - 110 011 Member
4. Shri N.P.Singh
Secretary to the Govt. of Karnataka
Dept. of Health & Family Welfare
Multi-storeyed Building,
BANGALORE - 560 001. Member
5. Dr.D.B.Bisht
Addl. Director General of Health
Services, Nirman Bhavan
NEW DELHI - 110 011. Member
6. Dr.R.M. Varma
Professor Emeritus, NIMHANS
III Cross, Lakshmi Road,
Shanthi nagar,
BANGALORE - 560 027 Member
7. Director
All India Institute of Speech and
Hearing, MYSORE - 570 006 Member-Secretary
8. Administrative Officer, AIISH Invitee

..IV..

COMPOSITION OF THE ACADEMIC SUB-COMMITTEE

- | | | |
|----|--|----------------------|
| 1. | Dr.D.B.Bisht
Director General of Health Services
NEW DELHI - 110 011. | Chairman |
| 2. | Dr.D.B.Pattanayak
Director,
Central Institute of Indian Languages
MYSORE - 570 006 | Member |
| 3. | Dr.R.M.Varma
Professor Emeritus, NIMHANS
III Cross - Lakshmi Road
Shanthinagar
BANGALORE - 560 027 | Member |
| 4. | Dr.M.S.Thirumalai
Deputy Director
Central Institute of Indian Languages
MYSORE - 570 006. | Member |
| 5. | Dr.K.Gopal
Reader in Physics, Manasagangothri
MYSORE - 570 006
(A Representative of the University of
Mysore) | Member |
| 6. | Heads of the Departments of Speech
Pathology, Audiology, Clinical Psycho-
logy, E.N.T. & Electronics, All
India Institute of Speech & Hearing,
MYSORE - 570 006. | Member |
| 7. | Administrative Officer
All India Institute of Speech & Hearing
MYSORE - 570 006 | Invitee |
| 8. | Dr.N.Rathna
Director
All India Institute of Speech & Hearing
MYSORE - 570 006 | Member-
Secretary |

..V..

MEETINGS OF THE EXECUTIVE COUNCIL OF THE INSTITUTE HELD DURING THE YEAR
1983-84 - SOME DECISIONS

XXXII Meeting of the Executive Council held on 19.7.1983

- (1) At the outset, the services rendered by Sri RR Gupta, Joint Secretary (FA), Dr. ID Bajaj, DGHS, Sri NK Prabhakara Rao, Secretary to the Government of Karnataka, Department of Health & Family Welfare were appreciated and placed on record.
- (2) The Council welcomed the new members namely, Sri PGR Sindhia, Hon'ble Minister of State for Health & Family Welfare, Dr. DB Bisht, Director General of Health Services, Sri NP Singh, Secretary to the Government of Karnataka, Department of Health & Family Welfare and Sri RM Bharghava, Joint Secretary (FA), Ministry of Health, Government of India.
- (3) It was decided to request the Govt. of Karnataka to give additional grant-in-aid for purposes of construction of Patients Block. Hon'ble Minister of State for Health & Family Welfare, Govt. of Karnataka was requested to help in this direction.
- (4) The Executive Council noted that the Institute was making efforts to find SC/ST candidates and suggested that the Roaster be reviewed by the Executive Council periodically.
- (5) Dr. BV Rama Rao was nominated to be a Member on the Academic Sub-Committee of the Institute.
- (6) It was decided that the Director General of Health Services or Additional DGHS shall be the Chairman of the Academic Sub-Committee.

XXXIII Meeting of the Executive Council held on 23.3.1984

- (1) AT the outset, the Council placed on record its appreciation of the services rendered by Sri SS Siddhu, Secretary, Ministry of Health, Govt. of India, Sri CVS Mani, and Sri NP Singh to the Council and the Institute.
 - (2) The Council also welcomed Sri PK Uma Shankar, Additional Secretary (Health), Ministry of Health & Family Welfare, Govt. of India and Sri MC Das, Secretary to the Govt. of Karnataka, Department of Health & Family Welfare.
 - (3) It was noted that there was considerable delay in the finalisation of plans for multi-faceted development of the Institute. The Chairman directed that the plans must be finalised before 15.4.1984.
 - (4) It was decided that in the place of the Speech Cell, an independent Department of Speech Science shall be created from 1st April 1984 and the necessary immediate steps shall be taken for its functioning effectively.
-

MEETINGS

The Meetings of the Authorities of the Institute were held
as follows:

- | | | |
|-----|------------------------|---|
| I | Executive Council | XXXII Meeting on 19.7.1983
XXXIII Meeting on 23.3.1984 |
| II | Finance Sub-Committee | XIII Meeting on 4.7.1983
XIV Meeting on 24.11.1983 |
| III | Academic Sub-Committee | VI Meeting on 28.3.1983 |

INTRODUCTION:

The Ministry of Health and Family Welfare, Government of India, established this Institute in the year 1965 as a Department of Government of India to shoulder the responsibility of imparting professional training, rendering clinical services to the public with speech and hearing disorders and also conducting research in the field. Later the Institute was converted into an autonomous body and registered under the Societies Registration Act XXI of 1860 (Punjab Amendment) Act 1957 as extended to the Union Territory of Delhi and since then functioning under the aegis of the Union Ministry of Health and Family Welfare. The University of Mysore accorded affiliation for teaching programme leading to the award of B.Sc., and M.Sc., and now Ph.D, in Speech and Hearing.

GENERAL:

There are about 36 to 100 million people afflicted with Speech and Hearing problems in India. Tackling this problem is a gigantic effort which needs support and help from all quarters.

The Institute being only one of its kind in South East Asia, it has to play solitary role in the new field of Speech and Hearing, by adopting new methods through research done at the Institute by specialists, and also by bringing more qualified specialists into field such as Speech Pathologists, Audiologists, Otolaryngologists, Psychologists and Electronics Engineers.

HOURS OF WORK:

Teaching	- 10 a.m to 1 p.m.
Clinical Services	- 10 a.m to 5 p.m.
Office	- 10 a.m to 5 p.m.

OBJECTIVES:

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

I - Training:

- (a) To provide and assist in providing general professional and technical education and training in Speech and Hearing for graduate, post-graduate and doctorate courses of a University;
- (b) To provide and assist in providing general professional and technical education and training to various categories of personnel e.g., Medical, Para-medical, Non-medical etc.,
- (c) To undertake, organise and facilitate study courses, conferences, lectures, seminars and the like to promote the above mentioned objects;
- (d) To undertake and provide for publication of journals, research papers etc., and to establish and maintain libraries and information services in furtherance of the objects of the society;
- (e) To invite representatives of Governments, Universities and other organisations of India and of foreign countries to deliver lectures on subjects in which the society is interested;
- (f) To co-operate with international agencies engaged in Speech and Hearing research and training and arrange for interchange of personnel, material and data;
- (g) To institute, offer and grant prizes, awards, scholarships, research grants and stipends in furtherance of the objects of the society;

II-Research

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

- (e) To subscribe to, or become a member of or to co-operate or amalgamate with any other association or society whose objects are similar.
- (f) To sell, assign, mortgage, lease, exchange, and otherwise transfer or dispose of all or any property movable or immovable of the society for the furtherance of its objects or any of them, provided prior approval of the Central Government is obtained for any disposition of immovable property.
- (g) To negotiate and enter into contracts on behalf of the society and vary and rescind such contracts.
- (h) To accept and undertake the management of any endowment or trust fund or donation to further the objects of the society.
- (i) To establish a contributory provident fund and gratuity for the benefit of the employees of the society.
- (j) To pay all costs, charges and expenses incurred in the promotion, formation, establishment and registration of the society.
- (k) To do all such other lawful acts, deeds, things, either alone or in conjunction with other organisation or persons as the society may consider necessary, incidental or conducive to the attainment of the above mentioned objects or any of them.
- (l) To undertake any other function that may be assigned to the society by the Ministry of Health and Family Welfare, (Department of Health) Government of India, in connection with Speech and Hearing.

- (e) To subscribe to, or become a member of or to co-operate or amalgamate with any other association or society whose objects are similar.
- (f) To sell, assign, mortgage, lease, exchange, and otherwise transfer or dispose of all or any property movable or immovable of the society for the furtherance of its objects or any of them, provided prior approval of the Central Government is obtained for any disposition of immovable property.
- (g) To negotiate and enter into contracts on behalf of the society and vary and rescind such contracts.
- (h) To accept and undertake the management of any endowment or trust fund or donation to further the objects of the society.
- (i) To establish a contributory provident fund and gratuity for the benefit of the employees of the society.
- (j) To pay all costs, charges and expenses incurred in the promotion, formation, establishment and registration of the society.
- (k) To do all such other lawful acts, deeds, things, either alone or in conjunction with other organisation or persons as the society may consider necessary, incidental or conducive to the attainment of the above mentioned objects or any of them.
- (l) To undertake any other function that may be assigned to the society by the Ministry of Health and Family Welfare, (Department of Health) Government of India, in connection with Speech and Hearing.

Ph.D:

Mrs S G Savithri has completed her doctoral dissertation on "Relationship between vowel duration and frequency of voice" under the guidance of Dr N Rathna and submitted the thesis to the University in 1983.

The following doctoral dissertations are being carried out in the department under the guidance of Dr N Rathna.

1. N P Nataraja - Differential diagnosis of voice disorders.
2. Miss Devaki Devi - An attempt at developing a test for reading disability.
3. R S Shukla - Acoustic Analysis of Speech of the deaf - R S Shukla
4. Mr Ravishankar - Perception analysis of speech of deaf children.

HIGHLIGHTS - 1983-84

The year 1983-84 has been a busy year. We look back with satisfaction on what we have been doing for the past several years.

Our faculty members and members from administration have effectively participated in Workshops, Symposiums and short term training courses.

On 2nd October, the District Rehabilitation Centre was inaugurated at T.Narasipur (a taluk headquarter) to provide rehabilitation facilities and training facilities for the rural population about the speech and hearing handicaps, orthopedically handicaps and vocational training for the handicapped people. The Institute Director is the Coordinator for this three year Pilot Project. Necessary infra-structure is being built up to run the project.

The Department of Clinical Psychology hosted the XIV Annual Conference of the 'Indian Association of Clinical Psychologists' during the month of December 1983.

The Department of Speech Pathology organised a National workshop on ~~Alternative~~ and Augmentative Communication System.

Under the Scheme of Social Welfare Ministry 'Aids and Appliances for the handicapped' 716 hearing aids were issued free of cost after due examination to the cases belonging to weaker section of the community and 75 aids at half the cost.

In association with the ISI, New Delhi, the Department of Audiology of the Institute prepared 27 documents which include standards for sound measuring instruments, hi-fidelity equipment, audiometers, ear-protectors, noise measurements, etc. This has not only helped us obtaining National/International

standards and specifications but also in the interactions of the Institute personnel with other professionals.

The R & D unit of the Electronics Laboratory have developed indigenous technology for the production of 's' indicator, an instruments used for speech therapy in collaboration with the National Institute of Engineering, Mysore and also 'Oral Cavity Resonator' an instrument used to find out resonance frequency of oral cavity.

Quite a number of professional luminaries visited the Institute and also delivered guest lectures to our staff and students.

On the public education programmes we conducted 27 speech and hearing camps in different parts of the State of Karnataka, Andhra Pradesh and Tamil Nadu and examined a total number of 6533 cases.

DEPARTMENT OF SPEECH PATHOLOGY

1.2.&3. Progress made during the year in respect of different activities:

A. Training:

<u>Item</u>	<u>Target</u>	<u>Achievements</u>
Training	B.Sc & M.Sc Programme	<p>The training programmes for the B.Sc and M.Sc are being completed with the B.Sc examination being held in April 1984 and the M.Sc in May 1984. The following changes were brought about in the staffing pattern of the department. Mr A Jagadish joined as Research Assistant in April 1983, Mr N P Nataraja, Lecturer in Speech Pathology was appointed Reader in Speech Sciences in May 1983. Dr Prathibha Karanth joined as Reader in Speech Pathology in July 1983 and took over charge of the department. Dr M Jayaram joined the department as Lecturer in Language and Language Disorders in October 1983. With this increase in the teaching staff the distribution of the teaching load was made more equitable and comparable with the pattern maintained in other departments of the University as proposed by the UGC, with subsequent improvement in the quality of the teaching programme.</p>

The following M.Sc dissertations were taken up in the department for the year 1983-84

1. Distinctive feature analysis of Telugu consonants - Umadevi R Guided by Mr N P Nataraja
2. Analysis of speech of stutterers - K N Shashidhar - Guided by Mr N P Nataraja
3. A test in Kannada for expressive abilities of children - Kathyayini - Guided by Mr N P Nataraja
4. Acoustic factors in musical phonation - J P Gupta - Guided by Mr N P Nataraja
5. A lexicon in signed language and its comprehensibility to normals - K Rajalakshmi - Guided by Dr Prathibha Karanth.

(ii) Guest Lectures:

1. The students of the Institute attended two lectures delivered by Dr Beverly Powell, Consultant Paediatrician, George Town University Hospital, Washington D.C. The first lecture was on 'Causes and Prevention of Developmental Disorders' delivered at CFTRI on 19.8.83. The second lecture on 'Neurological and Medical Aspects of Learning Disorders - focus on Diagnosis and Management' was delivered on 29.8.83 at the All India Institute of Speech and Hearing.

2. Dr Mansfred Spreng from West Germany visited the Institute on 18th and 19th September and delivered two lectures to the students. The first was on 'Recent Advances in Auditory Physiology' and the second on 'Noise Induced Hearing Loss'.

3. Mrs Anne Warrick, Speech, Language Pathologist and Affiliate of the Blissymbolic Communication Institute, Ottawa, Canada and Mrs Sudha Kaul, Vice-Chairman, Spastic Society of Eastern India delivered lectures on Blissymbolics in October 1983.

* For details see Annexure I.

4. Dr (Mrs) Tilothama Daswani visited the department on 29th November 1983 and addressed the faculty members.

5. Dr Prithika Chari, Consultant Neurologist from Madras visited the department on 20th and 21st February and delivered the following lectures to the students.

1. Neurology of Language I
2. Neurology of Language II
3. Aphasia
4. Test for Aphasia.

B. Clinical Work:

In the clinical area the department has been carrying out the responsibility of Diagnosis and Counselling of cases with speech and hearing disorders. The following table shows the statistics regarding the same.

Month	Sp.Evaluation	Counselling	Speech Recording	Total
-----	-----	-----	-----	-----
April	-	-	-	212
May	-	-	-	221
June	-	-	-	170
July	-	-	-	195
August	-	-	-	-
September	234	72	15	259
October	337	84	-	388
November	294	60	6	332
December	357	79	14	368
January	241	67	12	315
February	258	50	18	332
March	274	71	20	336

It was found that the supervision and maintenance of the Diagnostic and Counselling Sections would be streamlined by centralising these activities in the Counselling room.

The register for the diagnostic and counselling work was maintained centrally in this section, under the supervision of the clinical staff. It was decided that the teaching staff would participate in demonstration of diagnostic work and counselling to the students including speech recording and measurements. Further improvement of the diagnostic - counselling section of the department is being implemented.

In addition to this clinical work the staff members of the department are individually responsible for the supervision of about 10 therapy cases each.

C. Research:

- (i) Projects: The following research programmes are being carried out in the department.

- a) Infant cry Analysis
- b) Collaborative Research Project on Analysis of bird calls and sounds - UGC Project taken up by the department of Zoology, University of Calicut.

(ii) Publications:

- a) M Jayaram - Phonetic influences on stuttering in monolingual and bilingual stutterers, Journal communication Disorders, Vol.16,4,285 - 295- 1983.
- 2) P Karanth, Dyslexia in Dravidian Language, Accepted for publication in 'Surface Dyslexia' edited by Coltheart Patterson, and Marshall, to be published by Routledge Kegan and Paul, London.
- 3) Jayaram M - Distribution of Stuttering in sentences and relationship to sentence length and clause position. Accepted for Publication in the Journal of Speech and Hearing, June 1984 issue.
- 4) P Karanth - A comparative analysis of Aphasia and Schizophasia. Submitted to the editorial board of Journal of Communication Disorders.
- 5) M A Mythili - Ear and aid. Submitted to Hearing Aid Journal for publication.

(iii) Presentations: The following papers were presented from the department at the Annual Conference of the Clinical Psychologist held at Mysore in December 1983.

- 1) Dr P Karanth - Analysis of acquired reading disorders in Kannada
- 2) M Jayaram - Transformational factors and stuttering evidence from spontaneous speech.

The following invited papers were presented by the departmental staff at the ISHA Conference held at

Madras in January 1984 as part of a continuing education programme.

1. P Karanth - Comparative Analysis of Aphasia and Schizophasia
2. M. Jayaram - Linguistic factors in Monolingual and Bilingual Stuttering.

The following papers authored/co-authored by the departmental staff members were presented at the Scientific Sessions of the ISHA Conference.

1. NP Nataraja and Jagadish - A fundamental frequency and vowel duration.
2. Kushal Raj and Nataraja NP - Fundamental frequency and formant frequencies in children.
3. Kushal Raj and NP Nataraja - Voice concept onset time in children.

D. Public Education: Departmental staff members participated in the camps conducted during the year 1983-84

Hulgur	- Mr P J Kumar, M G Subramanayai
Arasikere	--do--
Mudigere	--do--
Mercara	--do--
Somavarpeta	--do--
Periyapatna	--do--
Andhra Pradesh	- Mr P J Kumar
Pandavapura	- Mr A Jagadish
Nanjangud	- M G Subramanayai
Salem	- Dr M Jayaram
Bellary	- Mr P J Kumar
Sagar	- --do--
Koppal	- --do--
Thirthahalli	- --do--
Bhadravathi	- --do--

Lectures delivered by the staff of the department:-

1. Mr N P Nataraja delivered a lecture on Speech and Hearing disorders at the Administrative Training Institute in September 1983.
 2. Mr P J Kumar participated in Hearing Aid Distribution programmes at Eluru and Vijayawada in Andhra Pradesh. He also delivered a lecture to the Anganwadi Workers at integrated Rural Development Centre, Mandya.
 3. Dr Prathibha Karanth gave an orientation lecture to the students of Regional College of Education who participated in the collaborative project with the Institute.
 4. Mr N P Nataraja gave an orientation lecture to the students of Regional College of Education participating in the collaborative project with the Institute.
 5. Dr Prathibha Karanth delivered a talk on 'Language Disorders and its effect on academic achievement' at the seminar for the Principals of various schools in Southern India organised by the Regional College of Education, Mysore in February 1984.
- E. Miscellaneous: The Institute organised an exhibition at Varthe Bhavan, Mysore on 9th August 1983. Mr P Chandra, Mr M B Purushothama and Mr A Jagadish from the department actively participated in organising and conducting the exhibition

The department organised and hosted a Workshop on "Alternate and Augmentative Communication Systems" from 22nd to 24th October 1983 in which 24 delegates from all over the country participated. Details are given in Annexure.

Mr M G Subramanayiah, Research Assistant of the department has been working on translation of the John Tracy correspondence course for parents of pre-school children.

Mr M B Purushothama has been translating public education pamphlets into Kannada.

Mr P J Kumar participated in a workshop on Speech Programming for the Hard of Hearing in June 1983 and seminar on prevention of the Disabilities in Pre-school children, NIPCCD, Delhi in September 1983.

Dr Prathibha Karanth was deputed to represent the Institute at the NGO's Meeting sponsored by Ministry of Social Welfare, Government of India and UNICEF at Delhi in March 1984.

2 & 3 LIST OF EQUIPMENT PURCHASED WITH A NOTE ON THEIR USE.

- | | | |
|--|---|--|
| i) Phillips LBD 8233 Microphone Floor stands | 6 | |
| ii) Philios LBD 8234 Microphone floor stands with Boom | 3 | |
| iii) Phillips LBD 8230 Desk Mic. stands | 3 | |
| iv) Resonators | 6 | To demonstrate to the students how changes in the shape of the cavity change the sounds (vowels) produced. These were made to order locally. |
| v) Larynx Microphone | 1 | The larynx microphone when worn comes in contact with the laryngeal area and picks up |

speech signals to be amplified. It is useful with cases having very weak voice.

- vi) Pitch Analyser 1 : Gives analysis of speech in terms of intensity and frequency at any particular point. Used for analysis of voice and also as bio-feed back when the person having voice problem can correct/approximate to the model given by the therapist.
- vii) Dimmers : To be used for video recording of atypical/interesting cases for purposes of documentation and demonstration to students.

ANNEXURE 1

A. Workshop on "Alternate and Augmentative Communication Systems" was held successfully from 22nd to 24th October 1983. 21 delegates from all over the country along with three delegates from the Institute participated in the Workshop.

The workshop was inaugurated by Dr Mrs Indira Amla on 22.10.1983. The workshop was conducted by Mrs Anne Warrick and Mrs Sudha Kaul on the following lines.

October 22, 1983:

Graphic Communication Systems
Blissymbol System

October 23, 1983

Special symbols
Drawing Blissymbols
Blissymbol Syntax
Vocabulary Selection and Display
Community and Family
Combining Blissymbols

October 24, 1983

Assessment
Technical Communication aids
Communicating with Blissymbols
Teaching Blissymbols
Blissymbols in India

The students of the Institute were allowed to participate in most of the sessions.

A valedictory function was held at 5 pm on 24.10.83 during which certificates of attendance were issued to all the participants.

SPEECH PATHOLOGY : I.S.T.
Itinerant Speech Therapist

1. CORRESPONDENCE:

- (a) Follow-up: Follow up of therapy cases are being done by sending follow up cards. Out of 104 cards sent during this period 50 cases have been reported and 9 cases have replied.

The main purpose for sending follow-up cards to the cases are

- i) Irregular attendance
- ii) To enquire the present condition of the problem
- iii) For re-evaluations
- iv) Discontinue therapy without any information

GENERAL CORRESPONDENCE:

Letters from public, enquiring the details regarding therapy facilities in the Institute and other places, guidance on home training programme for Speech and Hearing Problems and for fixing up appointments for Consultations are being attended regularly.

2. HOME VISITS:

Home visits are being done for therapy cases, only when the concerned supervisor recommends a home visit. Only 2 cases were followed up. During home visits, responses from parents were not satisfactory and it was difficult to get the reliable information from parents. As most of the parents of therapy cases accompany the children daily for therapy, they are being counselled individually and in small groups, for the following:

- a) Importance of hearing aid, care of hearing aids, and maintenance.

- b) Follow up of therapy at home
- c) Follow up of school work at home
- d) **Maintenance** of diary
- e) Preparing teaching aids
- f) To co-operate with the teachers and visit the school daily or atleast once in a week
- g) Helping them in conducting group activities

3. SCHOOL VISITS:

Visits to the schools in Mysore city where many hard of hearing children and children with other speech problems are studying, have been found very useful from the education point of view. A proforma has been prepared and is being used for collecting detail information regarding the performance of each child.

31 schools have been visited and 84 children have been followed up during this period.

1. Informing the Head of the school and the teachers regarding the speech and hearing problems of children studying there, the aim of recommending these children to be admitted in normal schools were explained, requesting their co-operation to help these children to be on par with normal children, to consider further admissions and to refer the children those who have speech and hearing problems.

2. Information is being conveyed regarding the language exemption along with a copy of G.O.

3. Discussions with the class teachers and subject teachers, regarding the performance, adjustments, regularity in attendance, wearing hearing aid, and carrying out home assignments, of these children.

Guidance to the teachers to be followed while teaching, to avoid the use of gestures and to encourage these children to participate in out door activities and to treat them like other normal children.

4. Parents co-operation and the parent - teacher relationship in bringing up these children.
5. Teachers are being invited to visit the Institute to have a view on the working of the Institute in serving the speech and hearing handicapped children and adults.
6. Orientation lectures are being given in schools, orienting the teachers towards the following lines.
 - a. Identification of the problems
 - b. Prevention and causes
 - c. Public Education
 - d. The role of teachers in serving the handicapped
 - e. Aids available for the handicapped in general
 - f. Details regarding hard of hearing children, importance and of usefulness of hearing aids etc.
 - g. How to deal with the handicapped children

4. PARENT COUNSELLING MEETINGS:

The meetings are being held on every 3rd Saturday. Responses from parents are not satisfactory, only 6-8 parents attend the meeting regularly on an average.

Followup of therapy, follow up of school work, care of hearing aids, vocational guidance and scholarship facilities for the handicapped, were discussed with the parents.

5. COMMUNITY WORK BY REGIONAL COLLEGE OF EDUCATION STUDENTS:

Under the scheme 40 students have been taken up

the followup work of hard of hearing children studying in normal schools in Mysore City. Orientation lecture was given to these students on the education of hard of hearing children, and the problems they have in schools, problems of teachers, speech stimulation, normal environment, hearing aids and therapy. Ten schools in Mysore city have been selected and the students would be working in groups with these children twice in a week for 2 hours under the guidance for 3 months from 2nd week of January 1984.

The students under this project started visiting schools assigned to them, for followup work, once in a week. In the beginning, the students were accompanied to one school on every Monday, and guidance was given, to carry out the followup work and to make use of the proforma to collect the information on performance of the child in detail.

The students were also helped in getting the information from parents in the Therapy Clinic on Wednesdays afternoon.

The students have completed the project and the reports have been submitted by them.

SPEECH THERAPY : THERAPY CLINIC

As in the previous years the records and data regarding clinical activities and others are being kept upto date.

Apart from the routine work, the following improvements and changes have been made:-

1. To accommodate more number of cases for therapy

and to suit the timings of cases and to increase the supervision of students during therapy and diagnostic morning therapy session was started from June 1983. This enabled in increasing the duration of therapy and overcoming the space problem and also helped in better supervision of students and cases.

2. Apart from the teaching staff, individual supervision of cases has been taken up by the clinical staff. The K.R.Hospital therapy cases are also being supervised by the clinical staff on an average around 45 cases are being supervised by the staff of the Clinic every month.
3. The analysis of therapy cases (1982) was done, to note various factors like number of therapy sessions, family background, placewise distribution of cases improvement seen in cases and therapy used.
4. To know the present condition of cases who have attended demonstration therapy in this Institute, a questionnaire is being prepared.
5. Questionnaire is being prepared to assess the need for commencing correspondence therapy for misarticulation, stuttering and delayed speech cases and to programme this.
6. To facilitate counselling of cases in the Institute and camps handouts for parents and guardians have been prepared.
7. The clinical staff have attended a series of camps (totally thirteen) during the months of April and August in Karnataka and Andhra Pradesh. The Clinical Assistant was deputed to accompany the final B.Sc students for education tour at Madras.

8. The materials for Kannada articulation tests, Token test for aphasia and Western aphasia battery and porch index of communicative abilities and tests for acquisition of syntax in kannada which were not available before were prepared and are being made use of.
9. A new format was proposed to maintain better records of summary of evaluation, therapy plans and progress of individual cases. The same have been approved and will be used from the beginning of academic year 1984-85.
10. On the occasion of the "World Day of the disabled" on the spot drawing and painting competition' was held for the handicapped children below the age of 15 years. The therapy cases of the Institute and the other handicapped children from other institutions participated in this competition. The cases undergoing therapy participated in the cultural programmes arranged by the "Karnataka Association for the Welfare of the Physically handicapped" assisted by the clinical staff.
11. To improve the communicative abilities and other residual abilities of the children and adults attending therapy in the clinic, group therapy sessions were started for children with delayed speech development and adults with stuttering problem from the month of February 1984.

<u>Month</u>	<u>No .of cases</u>	<u>No.ofsession</u>
February 1984	33	2
March 1984	21	1

DEPARTMENT OF AUDIOLOGY

The activities of the Department centred around three functions viz., training, research and development, and clinical services were further developed and strengthened.

1. TRAINING PROGRAM

(a) Audio-Visual Demonstrations:

Audio-visual demonstrations were employed whenever possible to supplement lectures. Initially, slide-cum-tape lectures on 'Noise and Vibration Measurements' were screened with the help of Jost's Engineering Company, Bangalore. On finding them useful, some of them were purchased for the Department. They were used for the first time during the current academic year. As the above films greatly benefited the students, it was decided that similar materials be prepared of the Department. Fifty-eight slides on various aspects of hearing and hearing disorders were made for this purpose. In addition, eleven films borrowed from British Council were screened. (Titles of the films-in Appendix II).

(b) Resource Materials:

Steps were taken to obtain information on recently published books/journals; a list of publishers of books on Speech and Hearing and allied areas were contacted, who put us on their mailing list. Previews and catalogues being received regularly, ensure the acquisition of latest publications.

(c) Projects and Dissertations:

Twelve projects and nine dissertations were also guided by the staff. Many of these projects/dissertations

have directly addressed themselves to the current needs of professionals/allied professionals and of the hearing handicapped in India. The titles of the projects and dissertations are listed in Appendix I.

(d) Short-term Training:

Short-term training was imparted to candidates from other Institutions. In the current year, four candidates were trained in ear mold making.

Three students of Speech and Hearing, from PGIMER, Chandigarh and two from B.M.Institute, Ahmedabad, underwent practical training in the different sections of the Department.

The short-term training program facilitated an interaction of the staff and students of the Institute with those from elsewhere.

(e) Guest Lectures:

In the current year, four distinguished professionals were invited to deliver Guest lectures.

1. Dr.N.Srinivasan, Director ISI - 'On Hearing aids ISI-standards'.
2. Dr.S.S.Aggarwal, Scientist, CEERI - On 'Speech Intelligibility, Speaker Recognition & Speaker Identification'.
3. Dr.Kantha Jadhav, Professor and Head Department of Anatomy, Medical College, Mysore. - On 'Embryology of the Ear'
4. Dr.Sharath Kumar, Mysore. - On 'Radiology and its applications to the detection of Site of Lesion'.

(f) Doctoral Program:

Two of the staff members in the Department have registered for their Ph.D Degrees. Two more research proposals were prepared. It is expected that these two will get registered for their Ph.D. degrees in the coming year.

(g) Numerical Summary:

No. of projects	12
No. of dissertations	7
No. of staff registered for Ph.D.,	2
No. of Guest Lectures	4 (about 15 hours)
No. of slide-cum-tape demonstrations.	3
No. of films screened	11
No. of books recommended	94
No. of external candidates trained	9

II. CLINICAL ACTIVITIES:

Clinical activities of the Department are aimed at the evaluation and management of the hearing impaired.

(A) Hearing Evaluation:

Diverse groups of patients were evaluated in this section. Tests were performed to determine the type and degree of hearing loss and the site of lesion.

Total No. of cases evaluated : 5,017

Conductive loss 1,147

Mixed hearing loss 734

Sensori-neural loss 2,222

Hearing within normal limits 914

Appropriate referrals were made whenever further evaluations seemed warranted. Copies of the audiogram were given on request. Certificates were issued whenever a given patient was eligible for pension, employment etc.,

Certificates for pension	451
Certificates for employment	46
Certificates for admission to deaf School	9
Audiogram copy	355

The section greatly benefited from the availability of a generator. Its use permitted the activities to be carried on even during long periods of power failure load shedding.

The following problems were encountered in carrying out the evaluations:

- (i) Lack of appropriate sound treatment and ventilation in the test rooms.
- (ii) Frequent breakdown of the Impedance meters.
- (iii) Malfunctioning of the Instrument used in Electro-physiological testing (BSER).

(B) Hearing Aid Evaluation: (a) Hearing Aid Trial:

This was carried out to determine the utility of amplification, since a wide array of aids were available. It was possible to assess the patient's performance with various aids before prescribing one.

- 1. Total No. of cases seen - 2,785
 - Adults: 1,643
 - * Children: 1,142
- 2. + No. of cases seen for hearing aid trial 1,860

a) For Body aids	1,749
b) For behind-the-ear	87
c) For Spectacle type	6
d) For Bone Conduction	18

3. Types of Services Rendered:

a) Counselling & demonstration	745
b) Battery Charger demonstration	13
c) Use of telephone by hearingaid users	92
d) Attending to reimbursement	5
e) Trouble shooting of hearing aids	141
f) Prescription and change of prescription	76
g) No. of Dan aid hearing aids returned	68
h) ** No. of Danaid hearing aids issued	12

* 12 years and below

+ Inclusive of cases for whom hearing aid was not found useful.

** These were issued (i) on trial basis

(ii) when other aids were not useful.

(b) Models for Trial Purpose:

No. of hearing aids available	54
a) Body worn aids	39
b) Behind-the-ear aids	10
c) Spectacle type aids	2
d) Bone Conduction aids	3

This Institute is one of the few places in the country where different models are available. Having these on hand, is useful in several ways:

(i) In the Clinical Program it reasonably ensures that the aid which gives optimum benefit to the patient can be selected.

(ii) It helps in the practical training of students. They get an opportunity to acquaint themselves with the various models available indigenously; in assessing their merits & demerits, and in evaluating the extent to which they meet the standards/specifications.

(iii) It aids in the preparation of handouts, that would be helpful to users of various models.

(c) Training:

Although earlier batches of students were trained to evaluate the utility of hearing aids, they were not specifically posted to this section. This year, the training was made more intensive by posting final B.Sc., and Final M.Sc., students to this section.

(d) Follow-up of Dan-Aid Users:

These hearing aids were distributed to patients under the Indo-Danish Scheme, during late sixties and early seventies. Follow-up letters were sent to Dan-Aid Users to determine the number of patients who still use these aids. Those who felt that the aid was no longer useful, were asked to return their aids. Whenever they reported in person, a re-evaluation was carried out and a different hearing aid was given under the Social Welfare Scheme.

Those patients who were unable to come for re-evaluation on having lost their registration cards, could do so with the help of the follow-up letter.

The follow-up program was also useful in establishing communication links with the patients so that the handouts, questionnaires prepared could be sent to them. This facilitated the collection of data which may be used

in the modification of the standards, handouts etc.,
A mailing list has also been prepared for this purpose.

The numericals details of the follow-up program
are as below:

No. of follow-up letters sent	898
No. of replies received	98
No. of letters returned for want of correct address	85
No. of patients reported in person	13

(e) Training in Speech Reading:

Often, patients are found who do not benefit from hearing aid alone. Supplemented with visual cues, however, their performance improves. Most patients learn to make use of the additional information from visual cues on their own. However, some others require professional guidance. During the year under report, two patients were given such guidance.

(f) Libby Horn:

It is a special type of connector used to transmit sound into the ear from behind-the-ear hearing aid. Though not manufactured in India, on procuring a few samples from abroad, its utility with a local hearing aid user was studied. The performance of this subject was not significantly different when the various connectors were used. However, it is intended that its utility be studied on more patients.

Hearing Aid evaluation of a Difficult-to-test Patient

First few sessions are devoted to buildup rapport to eliminate temper tantrums. In subsequent sessions, the case was trained to take part in structured activities.

in the modification of the standards, handouts etc.,
A mailing list has also been prepared for this purpose.

The numericals details of the follow-up program
are as below:

No. of follow-up letters sent	898
No. of replies received	98
No. of letters returned for want of correct address	85
No. of patients reported in person	13

(e) Training in Speech Reading:

Often, patients are found who do not benefit from hearing aid alone. Supplemented with visual cues, however, their performance improves. Most patients learn to make use of the additional information from visual cues on their own. However, some others require professional guidance. During the year under report, two patients were given such guidance.

(f) Libby Horn:

It is a special type of connector used to transmit sound into the ear from behind-the-ear hearing aid. Though not manufactured in India, on procuring a few samples from abroad, its utility with a local hearing aid user was studied. The performance of this subject was not significantly different when the various connectors were used. However, it is intended that its utility be studied on more patients.

Hearing Aid evaluation of a Difficult-to-test Patient

First few sessions are devoted to buildup rapport to eliminate temper tantrums. In subsequent sessions, the case was trained to take part in structured activities.

For this purpose low-frequency sounds along with visual cues were made use of. In responses to the signal, the case had to put a 'V' mark, thread a bead, drop a bead etc., By having joined the dots, an animal picture would be drawn. The case would hear the name of the animal just drawn.

The earmolds and hearing aid could not be placed appropriately. To overcome the fear of these, the case was encouraged to play with the earmolds and then insert the earmolds in her own ears. To make this task easier, she was asked to insert cotton ball in her sister's ears. Thus, she got accustomed to wearing the earmold. This was an important step for the purpose of making her earmold.

In later sessions, she was allowed to touch the hearing aid cord and bone vibrator. With the vibrator in her hand, she was allowed to feel the vibrations. On connecting the hearing aid to the vibrator, when the sound of the horn was presented, she seemed to enjoy the experience. The sound generated by the horn had maximum energy at 500 Hz (about 80 dB SPL). Auditory training was continued with visual cues gradually being reduced. She responded to the sound of the horn from a distance of 10' without visual cues, by dropping a bead etc. Similar responses could not be elicited for other stimuli such as the rattle, bell or speech.

An air-conduction hearing aid with mild gain issued on loan basis was tolerated well. Subsequently hearing aids with higher gain was tried. She was observed to enjoy blowing the horn; each time there was sound, she would laugh. If there was no sound, she

would put forth a greater effort. Since a few weeks, she has been observed to smile when her name is called. Whenever her hearing aid is out of order she demands another.

She is being encouraged to make use of visual cues by training her in speech reading. Attempts are also being made to obtain precise thresholds through air and bone-conduction. So far, the responses elicited have not met the standard criteria.

(C) Earmold Lab:

(a) Training:

Nineteen under-graduate and twelve post-graduate students were trained to make earmolds. Four external candidates were also given training.

(b) Clinical Activities:

The Clinical activities of this section centred around the preparation of prosthetic aids.

No. of cases seen

(One or more impression are taken for each case)

1,064

INDIA

Karnataka	865
Kerala	60
Andhra Pradesh	44
Tamil Nadu	80
Uttar Pradesh	2
Assam	5
Maharashtra	2
Bengal	1
Orissa	1

Bihar	1
Goa	1
Andaman	1

FOREIGN COUNTRIES

Malaysia	1
----------	---

No. of impression taken	1,784
(a) No. of regular molds	1,702
(b) No. of skeleton molds	67
(c) No. of special molds (include plaster casts vented molds & swimmer molds)	11
(d) No. of prosthesis	4
No. of molds completed	1,726
No. of cases to whom molds were issued in person	525
No. of cases to whom molds were mailed	403
No. of molds on payment	340
No. of molds free	1,438
No. of molds repaired	19

(c) Miscellaneous:

(i) In the previous years, certain steps were taken to keep down the number of earmolds returned for want of sufficient or accurate address on the envelope. One such step was to type the address on the envelope instead of writing by hand. In spite of these measures, earmolds returned for want of sufficient/accurate address, numbered six.

(ii) Enquiries are received from patients regarding the coupling of the hearing aid receiver to the earmold and also regarding inserting the earmold in the ear. Such enquiries were mostly from patients who received earmolds by post, even though considerable time is

spent at the time of demonstration of use and maintenance of hearing aid. Attempts are being made to devise ways and means through which such enquiries are eliminated.

III. RESEARCH AND DEVELOPMENT

Long-range plans for the multifaceted growth of the Department, the first phase of which constitutes the VII Plan, were prepared to be placed before the Academic Sub-Committee in April 1984. Proposals prepared in the previous year were modified and refined.

(A) Collaborative Projects:

1. Indian Standards Institution, New Delhi:

The Institute has been associated with ISI, New Delhi, in the preparation of twenty-seven documents which include standards for sound measuring instruments, hi-fidelity equipment, audiometers, ear protectors, noise measurements, etc., work in progress: (i) Terminology in Speech and Hearing, (ii) Standards for Impedance audiometers.

This collaboration with ISI has not only helped in obtaining National/International standards and specifications, but also in the inter-actions of the Institute personnel with other professionals.

2. Vishweshwariah Industrial & Technological Museum:

Attempts are being made to devise instruments for testing children in collaboration with VITM, Bangalore. Their help was also sought in designing mobile units.

3. Ministry of Education:

A program for the integration of the scheme for hard of hearing children in regular schools was prepared and sent to Ministry of Education, Government of India.

(B) Short term projects:

Short-term projects were designed and carried out to meet the needs of various sections.

(a) Training:

1. A draft of the text for slide-cum-tape lectures on 'The Ear' was written. Slides for the same have been prepared.

2. A draft on 'Guidelines for counselling the hearing aid client', was prepared. This is meant for use by students before they begin to counsel patients on hearing aid use and maintenance.

3. Lectures from 'Audiology - An Audio Journal of continuing Education' were recorded on cassettes, for use by staff and students. They are not only informative, but also expose them to foreign accent. They can be used by students even in the absence of staff member.

4. Addresses of Deaf Schools, Speech and Hearing Centres and ex-students of the Institute have been collected. These are being used to send materials prepared to elicit comments.

5. A Research proposal on 'A correspondence programme for parents of deaf children' was prepared and submitted to the Ministry of Social Welfare. This would aid in training parents in the rehabilitation of their deaf children. (This has since been sanctioned).

6. An aural comprehension test was prepared to evaluate students on 'Deaf Blindness' - an audio lecture from 'Audiology - An Audio Journal of continuing education'.

7. Slides were made on noise measurement, hearing evaluation etc., These will be used in audio-visual demonstrations.

(b) Hearing Evaluation:

1. Word lists available for use in Speech Audiometry in various languages (English, Hindi, Kannada, Malayalam, Tamil & Telugu) were collected.

2. A draft handout on 'Electrophysiological tests' has been prepared.

(c) Hearing Aid Evaluation:

1. List of common words between Kannada and Telugu and Tamil and Malayalam that can be picturised have been prepared. Pictures are being prepared.

2. A list of types of cells and cords suitable for various hearing aid models was prepared. This information is being used in demonstration of hearing aid care and maintenance.

3. 'Answer-in-the-question' test and 'Yes-No' questions to be used in hearing aid trial were constructed in English. Translations of the same were made into Kannada, Malayalam and Tamil.

4. The Utility of telephone amplifier was explored on a hearing impaired subject.

5. Performance of a behind-the-ear hearing aid user was compared with Libby horn and conventional connector.

6. A draft of the article 'The role of earmolds in hearing aid selection-I. Case Report' was prepared.

7. Noise levels of toys used in hearing aid evaluation were measured.

8. Spectrographic data on hearing aids were collected from CEERI, New Delhi.

9. Proforma to collect information on expenditure involved in the maintenance of hearing aids, was prepared and is being distributed among cases.

10. A format for use in communication to the office regarding exchange of hearing aids has been prepared. The same is in use.

(d) Noise Trauma Cell:

1. A draft of questionnaire to collect data re-noise, its effects, sources of community noise etc., was prepared.

2. Slogans and posters regarding noise were prepared by students under the guidance of staff. This was done during a festival when noise levels in the community increase on account of the blaring loudspeakers.

3. Noise exposure of personnel in the earmold lab. was measured using a noise dosimeter. The level was below the value specified in damage risk criteria.

4. Attempts were made to control noise in the earmold Lab, by placing rubber pads under the motors.

(e) Earmolds:

1. Exploratory work was done on the availability of instant and soft mold materials indigenously.

2. Procedure for making silicone mold was demonstrated. Following observations were made:

Acrylic Mold

1. Impression to be taken with Hydrocolloid impression material.
2. Flasking is necessary by plaster of paris.

Silicone Mold

1. The same material can be used for impression.
2. Plaster models for each impression to be prepared from the impression; takes 10 minutes Flasks will not be required.

3. packing should be done under pressure.
4. Curing can be done at 100°C within three hours, require oven or stove, hot water and vessel.
5. Fixing the earmold ring and making canal hole is possible with existing machine in the Lab.
6. This is hard mold.
7. This costs approximately Rs.3/- each.
8. At present only white molds are being made; but possible to make colored molds.
9. Trimming and polishing required. Former gives lot of dust, polishing requires additional material and equipment.
3. No pressure is necessary for packing filling the plaster model adequate.
4. This needs 24 hours to get hard at room temperature.
5. We have to design special type of earmold rings.
6. This is softmold.
7. This costs approximately Rs.10/- each.
8. Possible colors, white, brown available in the country.
9. Trimming required using Scissors or equivalent. No dust produced, polishing may be required.

(f) Public Education Activities:

1. The Hindi and Tamil translations of pamphlet on 'Hearing Aid care' were revised. Copies of this pamphlet are now available in Hindi, Kannada and Tamil, which are being distributed among patients. Many users have reported these to be highly useful.

2. A pamphlet on hearing aid and its parts using cartoons was prepared. This was named 'Getting to Know You' Copies of this are now available.

3. A draft on 'Orienting to amplification' was prepared and later revised and edited. This is for the

patient who has just begun to use a hearing aid or to those who experience difficulty in adapting to its use.

4. A pamphlet on 'The Ear and Hearing Loss' was prepared. Copies were sent to a few professionals/allied professionals, and patients for comments. Favourable comments were received with a few useful suggestions for modifications. It is proposed that the other pamphlets prepared (or to be prepared) be sent to various groups of readers to receive comments before printing.

5. A draft on the 'Care of behind the ear hearing aid' was prepared.

6. Copies of the handout entitled 'For the hearing aid user' which emphasizes the points the user should be aware of, are now being distributed among the cases.

7. 'Guidelines for the purchase of hearing aid, was revised. This is for use by patients intending to procure their own hearing aids.

8. A draft handout on 'Earmolds' has been prepared. When ready, this may be used for patients and in the training program.

Despite the attempts to guide the patients regarding the hearing aid, ear mold, its use etc., We constantly receive letters/queries from patients on their use. The above pamphlets/handouts when printed could be mailed to them which would save the time of the professional staff.

(g) For Consultancy:

The following materials were prepared and/or revised for use in consultancy services.

1. Guidelines for the purchase of manual audiometer.

2. Guidelines for the purchase of Electro-Acoustic Impedance meters.
3. Guidelines for installation, calibration and maintenance of audiometers.

We often get enquiries regarding the purchase of audiometers and other instruments. The above materials (1&2) would facilitate quick appraisal of the user's needs and recommendation of appropriate instruments. Item No..3 would aid in answering other queries regarding the instrument-its use and care.

(h) Audio-Instrumentation:

1. Every year, catalogues of various instruments used in diagnosis and rehabilitation of hearing disorders are collected. Having these on hand, helps us in preparing plans and standards and in the purchase of instruments for the Department. They are also utilised in the training program.

2. The addresses of dealers/manufactures of various instruments in India and abroad have been collected. It is intended that these addresses be compiled to form a technical directory.

3. Data was collected on the availability of diagnostic and rehabilitative instruments in various Speech and Hearing Centres. These would be useful in writing reports and in holding discussions regarding their utility, before purchase.

IV. INSTRUMENTATION:

(a) New:

Two new instruments viz., Frequency Analyzer (B & K 2120) and level Recorder (B & K 2307) and an

adaptor (DB 0225) were purchased. They were received towards the end of the year and were used for demonstration in the training program.

(b) Old:

The sound level meter (SLM) Octave filter set, artificial mastoid available in the Department were used regularly for calibration of audiometers. The SLM, the Octave filter set and a condensor microphone were also useful in measuring noise levels of materials used in hearing-and hearing aid-evaluation.

Environmental sounds were recorded using the B & K tape recorder in conjunction with the Phillips turn table Cassette recorders were in constant use in hearing aid evaluation and in the training program.

V. SOCIAL WELFARE SCHEME:

It is with pleasure that we record our activities associated with the Ministry of Social Welfare (Government of India). A meeting was called for selecting the hearing aids to be distributed under the Aids and Appliances Scheme. As a consequence of the criteria developed for this purpose a number of the indigenously available hearing aids were tested for their Electroacoustic Characteristics etc., at the National Physical Laboratories, New Delhi. Such information obtained under standard conditions on so many hearing aids was not available prior to this date (May 1983).

On account of the rate contract with the manufactures, the price of the hearing aid was reduced considerably. However, the reduced price is applicable only to the hearing aids distributed under the Aids and Appliances Scheme.

AIISH being one of the centers where hearing aids under this scheme were distributed, there was a steep increase in the caseload. Further, more number of patients from the lower Socio-Economic strata reported for evaluation and receipt of hearing aids. Additional staff to deal with the increased caseload was requested.

With the availability of staff members recruited under the Social Welfare Scheme (for issue of free hearing aids), certain improvements could be made in the clinical activities, record keeping and in Research and Development activities.

The proformae used for recording responses during hearing evaluation have been modified. Separate proformae are now available for use with patients with and without normal speech. In addition, a separate sheet has been designed and is in use, to report the findings of hearing aid evaluation.

For all difficult-to-test children, observation therapy was undertaken. During these sessions, the child was conditioned to respond to auditory stimuli. In the case of very young children and those mentally retarded, systematic observations were made of other changes in behaviour in response to sound which were used in the selection and recommendation of hearing aids. Availability of a separate room for this purpose would increase the effectiveness of this program.

(a) Counselling and Demonstration:

Staff members were assigned on a rotation basis to carry out the demonstration of hearing aid use and to counsel the patients/parents. This was introduced with the intention of reducing the waiting time for the

patient. The available facilities for this purpose were fully utilized. It provided the patients/parents with an opportunity to learn the operation, maintenance and care of hearing aids. Use of battery chargers and use of hearing aids for telephone conversations were demonstrated whenever necessary. Pamphlets on hearing aid care to supplement the information given during the demonstration were made available in Hindi, Kannada and Tamil.

To provide the patient with all the factual information regarding the hearing aid, a proforma incorporating details such as type and model of hearing aid, its serial number, the type of receiver, cord, cell to be used with the aid were filled out by the patient/parent at the time of demonstration. Patients were encouraged to fill-in this form. Most patients have shown interest in doing so.

So far we used to receive letters from parents/patients asking for replacement of "Wire" etc., Now they specifically mention the type of cord/receiver such as "Single Cord" or "Air conduction AP 180 receiver" etc., These letters are rewarding and we felt that our efforts have been worthwhile. It has also helped us in establishing a good communication link with the patients. This would aid us in the follow up projects.

(b) Replacement of Hearing Aids:

A hearing aid selected during the initial visit of a patient, may have to be replaced by another model at a later stage for various reasons. Patients were encouraged to have a re-evaluation whenever they felt their aid ceased to be of use to them. To study in-depth, the factors that necessitate the exchange of hearing aids, a project was undertaken. A proforma

was prepared for this purpose. Subjective impression regarding the hearing aid utility were also recorded in patient's own words (In case of adults). The following facts emerged on analysing the reports.

1. Hearing had deteriorated.
2. They needed a different aid in order to facilitate finer discrimination.
3. In case of children, in the initial stages, hearing aid is recommended for awareness, auditory training and to aid in speech and language development. Once speech and language develops, hearing aid usefulness in terms of speech discrimination has to be assessed. During this re-evaluation, a different aid may be more suitable.
4. In very young children, where hearing aid usefulness cannot be determined, a hearing aid is prescribed tentatively which may need replacement once the child is able to give voluntary responses.

Initially, (from April 1983), three staff members (two clinical assistants and one research assistant) were available therefore the work had to be shared by only two staff members, which slackened the pace of the follow-up program.

(c) Follow-up program:

An effective follow-up program is essential to ensure that our evaluation, recommendation and counselling procedures have been fruitful. Questionnaires were prepared.

- (i) To evaluate the knowledge regarding hearing aids: (for parents/users)- HA-1.
- (ii) To investigate the problems in the use of hearing aids: (for parents/users) HA-2.

- (iii) For the follow-up of parents of hearing impaired children, within six months after issue-HA-3.
- (iv) For the evaluation of their children's progress: (for parents)-HA-4.
- (v) To assess the recurring expenditure involved in the maintenance of hearing aids.

The above questionnaires were mailed to parents/users. The statistics of responses received are given below:

Questionnaire/ check list sent	No. sent	Questionnai- res filled & returned.	Response	
			Letter reply	Reported in person
HA 1	293	104	7	8
HA 2	113	51	2	2
HA 3	43	21	-	1
HA 4	23	13	-	-
Recurring expen- diture checklist	20	13	-	-
Total	492	202	9	11

Although the number of responses received is small, the types of responses are encouraging. It is anticipated that with time, the number of responses will also increase. An additional factor is that the questionnaires being in English, many patients have indicated their inability to respond. Translations of the questionnaires in regional languages must be taken up.

A communication from the Ministry of Social Welfare indicated that the follow-up program be carried out as a research project. It was desired that a research proposal be submitted, (The same is ready for onward transmission).

VI. OTHER ACTIVITIES:

Apart from the training, Research and Development and Clinical functions, the staff members were also involved in the activities listed below.

A. Extension Services:

- (i) Speech and Hearing Camp (J.D.S)
- (ii) Hearing Aid Camp-(E.P.B., G.M., J.D.,M.S.M.,S.G.G.)
- (iii) To Ali Yuvar Jung National Institute for the Hearing Handicapped - (G.N)

B. Consultancy Services:

(i) To UNICEF:

(a) Comments on a project submitted to them on 'Kostic Methodology' was sent. One of the staff of the Department (S.N.). was invited to calcutta as a consultant. This could not be accepted owing to prior commitments. Hence further comments were sought by the UNICEF, on the clarifications given by the researchers. The same was sent.

(b) On purchase of audiometers.

- (ii) To A.Y.J.N.I.H.H-forms to be used for issuing certificates, to the handicapped.
- (iii) To Mysore Nalls & Fasteners (C-97, Industrial Estate, Yadavagiri, Mysore-2), on ear protective devices.
- (iv) To M/s Caroline Lamb: Copies of ISHA directory was sent.
- (v) To Dr.R.V.Nagaveni, 'Ganga Clinic' Mysore - on ear protective devices.
- (vi) To BHEL: On purchase of audiometer & Impedance meter.
- (vii) To the Society for the aid of handicapped children, Coimbatore: equipment and material for setting up an earmold Lab.

(viii) To Ministry of Education: On course of study & syllabi.

(ix) To Tamil Encyclopedia (J.D.S.)

C. Lectures:

1. Application of Ipsilateral and Contralateral reflex measurements ISHA Conference Madras (J.D.S.).

2. Clinical masking & high-lights of his thesis- ISHA Conference, Madras (M.N.V.)

D. Conference:

1. Attended ISHA Conference Madras (J.D.S/E.P.B/M.N.V).

2. Attended ENT Conference Mysore, (M.N.V.).

E. Workshops:

1. On Central Auditory disorders at NIMHANS, Bangalore (M.N.V./J.D.S).

2. 'Education for the hearing Impaired', Bombay 1983 (J.D.S).

F. Symposium:

1. Invited Speaker 'Acoustic Noise pollution - Audiological Evaluation' at National symposium held in connection with the annual conference of Acoustical Society of India (S.N).

2. Abstract sent to International Congress in Audiology - to be held in Santa Barbara. The abstract being accepted, deputation has been requested (S.N).

G. Publications:

1. Article on 'Occupational Hearing Loss' published in the C.P.C. polytechnic (Mysore), Annual magazine (E.P.B).

H. Memberships:

1. Editorial Board-Journal of A.I.I.S & H. (S.N.).
2. Editorial Board-Journal of Acoustical Society of India (S.N.)
3. Federation for the Welfare of the mentally retarded (India), New Delhi, Group 'C' for preparing curriculum for training the professionals/para-professionals (S.N.)
4. Was requested to serve as the consulting editor in Audiology for 'Speech-language-Hearing' Journal New Delhi (M.N.V).
5. Secretary ISHA (J.D.S).
6. American Auditory Society, U.S.A (J.D.S).
7. Indian Speech & Hearing Association - ISHA- (S.N./M.N.V./J.D.S./E.P.B/G.M./J.D/M.S.M/S.G.G/K.S.P).
8. Acoustical Society of India - ASI - (S.N./G.M./J.D./M.S.M./S.G.G).

I. Meetings/Discussions/Visits: (S.N.)

(a) At A.I.I.S & H:

1. Department Promotion Committee.
2. Hostel Committee.
3. Executive Council (March 1983, July 1983).
4. Chairman, Library Committee.
5. Academic Sub-Committee (May 1983).

(b) Examinations/Training Program: (S.N).

1. Board of Studies (April 1983).
2. Board of Examiners (April 1983, March 1984).
3. Examiner at Gujarat University, Ahmedabad, (April 1983).
4. Examiner for Viva voce-B.Sc., (Speech & Hearing) and M.Sc., (Speech & Hearing) at A.I.I.S & H.

(c) At A.Y.J.N.I.H.H (S.N).

1. Visit to A.Y.J.N.I.H.H, Bombay, regarding consultation.
2. Attended Executive Committee Meeting.
3. Attended Technical Committee Meeting.
4. Attended Selection Committee Meeting.
5. Invited to participate in the symposium to prepare the blue print.

(d) Ministries: (Government of India): (S.N.)

1. Ministry of Social Welfare, Meeting with the National Institute for Handicapped Research, U.S.A., (April 1983).
2. Ministry of Education and Culture, 'Integrated Education for the Handicapped'. New Delhi, (July 1983).
3. Ministry of Social Welfare, Rate contract Meeting (March 1983 and August 1983).

(e) ISI. New Delhi: (S.N).

1. Meeting of 'Panel on hearing aids and audiometers' (August 1983 and December 1983).
2. Acoustic Sectional Committee (December 1983).

(f) UNICEF: (S.N).

1. Discussions with the UNICEF officer, Regional Centre, Madras, regarding the project submitted by us (July 1983).

2. Discussions with the UNICEF officers regarding the project submitted by us and the comments sent by us on a project submitted to them on 'Kostic Methodology' (August, and Twice in December).

(g) Acoustical Society of India (S.N).

1. Executive Committee meeting (November 1983) and was elected for a second term.

2. Mysore Chapter: An informal meeting of the local members was held.

(h) Others (S.N).

1. Discussions with Senior Curator, VITM, Bangalore, (July 1983 and August 1983).

2. Visit to customs officer-regarding a parcel of earmolds-Libby horn, spares for GSI-10 audiometer (August 1983 & December 1983).

3. Discussions with M/s Kardio Control, New Delhi, regarding repair of TA-1000.

4. Discussions with M/s Mitra and Brothers, regarding repair of MAICO audiometers.

FOR THE FIRST TIME:

We introduced a number of activities for the first time during 1983-84.

1. We set up a separate section for case history taking, demonstration of hearing aid use and counselling.

2. We could use our own set of slide-cum-tape lectures for demonstration on 'Noise and Vibration measurements'.

3. This time we also attempted to prepare slide-cum-tape lectures on our own. Slides and draft of the text for one such lecture is ready.

4. A radio program which aimed at educating the public regarding noise in the community, was prepared. This was broadcast over All India Radio - Mysore.

5. An identification slip to record the parts of the hearing aid for use in their purchase by patients, was constructed and put into use.

6. Students were posted to hearing aid evaluation Section.

7. We could implement an intensive follow-up of hearing aid users which was made possible by the grant received from the Ministry of Social Welfare.

8. We were included on the mailing lists of various publishers, during 1983-84.

9. A Candidate from outside the country (Nepal) came to us for training in Ear Mold making.

10. We sent out a draft public education pamphlets to various professionals for comments. We received many valuable suggestions and found this procedure to be useful. We propose to repeat it with other handouts prepared.

11. We made it mandatory to recommend hearing aids only after carrying out evaluation with custom ear molds, in all local patients.

12. A status report on Speech & Hearing instruments was prepared. This was sent to the Acoustical Society of India.

APPENDIX -I

TITLES OF INDEPENDENT PROJECTS

1. A correspondence program for the Hard of Hearing Children/parents.
2. Acronyms for audiologists.
3. A manual in the selected areas of audiology for allied professionals.
4. A practice guide to clinical masking.
5. Development of a DAF (Delay Auditory Feed back) test for illiterates.
6. Ear difference in TTS for binaural stimulation.
7. Establishing Norms for D-S test.
8. Masking factor in normal and pathologic ear.
9. Questions and answers on the ear and its functions.
10. Reliability of stimulated hearing loss.
11. Tone decay at high frequencies in normals.
12. Ayurvedic Treatment for Ear Diseases.

TITLES OF DISSERTATIONS

1. Articulation functions for the common word lists between Kannada and Telugu languages for the native speakers of Kannada.
2. Articulation functions for the common word lists between Kannada and Telugu languages for the native speakers of Telugu.
3. Clinical implications of continuous tone masking test using diagnostic audiometer.
4. Ear to ear lateralization in stutterers and non-stutterers.
5. Effect of auditory fatigue on SISI Scores.
6. Maximum effective masking levels in normal and pathological ears.
7. Performance on an auditory task by non-native speakers of English on selected bisyllabic words.

APPENDIX-II

LIST OF FILMS

1. Working for safety.
2. Anatomy of the Human Ear.
3. Give me a signal.
4. Waves on a string.
5. An approach to the early detection of childhood deafness.
6. Effective writing: Paragraph connection.
7. Communication : Message.
8. Communication : Receiver.
9. Creating Instructional Materials.
10. Sampling variables.
11. Experimental designs.

DEPARTMENT OF CLINICAL PSYCHOLOGY

Staff

The following new staff members joined the department during 83-84

1. Mr. Anthony Thomas, as Assistant Lecturer, previously Research Assistant at the Institute, reported on 19-12-83.
2. Mr. P.Vidyasagar as Clinical Psychologist, joined on 16-5-83.
3. Mr. G.Jayarama, as Clinical Assistant joined on 28-4-83.
4. Miss Nagalambika, as Research Assistant, joined on 29-12-83.
5. Mr. Krishnarangaraju, as Lab-Technician, joined on 23-12-83.

One post of Lecturer in Clinical Psychology is still pending to be filled up.

Organisation

The department has been actively participating in (1) Diagnostic Services (2) Therapeutic Services on the lines of Behaviour Therapy, Psychotherapy and Counselling (3) Participating in teaching and training programmes of students of BSc, and MSc., Speech and Hearing as in the previous years. The students were also given exposure to diagnostic and therapeutic techniques (4) They also took part in Research Activities (5) The department actively participated in collaboration with other departments, in the institute's activities including camps & public education services etc.,

Teaching and Training

The staff continued to participate in teaching and training programmes.

Mr. Tulsi Das, a Ph.D., scholar from Department of Psychiatry, Institute of Medical Sciences, B.H.U., Varanasi, was given training in the department for a duration of one month.

Three students from P.G.I. Chandigarh were given orientation training for a period of one week in the application of

Clinical psychology in the field of Speech and Hearing.

Post Graduate students in ENT from A.M.C. Poona, were given orientation lectures in application of clinical psychology and its importance in the field of medicine, especially in the field of ENT.

Other activities of the staff

Dr.J.Bharath Raj, was appointed as the examiner for Ph.D., in Clinical Psychology at the Benaras Hindu University.

Weekly staff meetings were held regularly to improve the services to the cases.

Mr. P.Kalaiah, was deputed to attend N.S.S. Officers training at Shimoga during May 1983. He has been working as training co-ordinator.

Diagnostic Services:

A total number of 2129 cases were evaluated for psychodiagnostics. Nearly 1879 cases (New) - and 250 old cases were seen, out of which 530 M.R. cases were evaluated. Some of them have been treated successfully in the department. 197 cases were issued certificates for financial benefits from Government of Karnataka.

Therapy supervision - 182

Therapy

A total of 182 cases were under therapy supervision of Departmental staff. Individual treatment was given to stutterers, mental retarded and other speech and hearing disorders, associated with psychological problems, by the staff members of the department. 140 cases new and old received therapy in the department.

Research and Publications

1. Miss Nagalambika, Research Assistant has taken up the project of investigating the relationship between extraversion Intraversion and neuroticism with stutterers.

- 2- Miss A.D.Bhavani, Lecturer in Clinical Psychology, continued her work for Ph.D., thesis under the guidance of Dr.J.Bharath-Raj on the topic "Application of the Behaviour Modification procedures in Training the Mentally Retarded".

Publications

1. Dr.J.Bharath Raj: Published an original test with the title Developmental Screening Test and an accompanying manual entitled DST + know your childs intelligence and how to improve it, during the current year.
2. Publi^shed an article entitled "BALINA SANJE" in Kannada language was published in a leading weekly magazine SUDHA.
3. Under Co-authorship with Mr. EP.Balakrishnan, published an article on "Stuttering and its treatment" in Malayalam language which was published in one of the leading magazine "Mathrubhumi", A sunday issue.
4. Presented a research article entitled, "Improvement of intellectual functions among socially disadvantaged children, in one of the workshops conducted at the All India Institute of Medical Sciences, New Delhi. The article appeared in a printed monograph published by McGraw Hill publications.

Miss A.D.Bhavani: An article entitled "Personality Factors related to speech disorders in children" - has been sent for publication in the Encyclopedia of the Tamilnadu University.

Mr.Anthony Thomas: Published an article on "Effect of population Density on Social Pathology" in a Psycho Malayalam Magazine. sent for publication an article "Effect of Emotion on pupil Dilation" to be published in Psycho "Malaya-lam Magazine".

The following members have presented the following papers in the XIV Annual Conference of Indian Association of Clinical Psychologists. December 1983.

Dr.J.Bharath Raj: Relaxation Responses - A Video demonstration

Mr.P.Kalaiah: Behaviour Therapy Techniques for the Treatment of Psychological impotency.

Miss A.D.Bhavani & Dr.J.Bharath Raj:

Behaviour modification of hyperactivity in a Mentally Retarded Child.

Miss A.D.Bhavani & Mrs. Iffath slam: Behavioural management of a brain damaged child.

Mr.P.Vidvasagar: Behavioural Approach in the treatment of a minimal brain dysfunction child - A case study.

Mr.G.Jayarama: Effect of Extraversion and Intraversion of paired Associates and Motor Learning.

Mr.Anthony Thomas: Locus of Control and certain other personality variables in neurotics.

A souvenir has been published in connection with the above conference, with popular articles by the staff of the department.

Radio Talks and Public Speeches

Dr. J.Bharath Raj, addressed Secondary School Teachers organised by the department of education, Government of Karnataka regarding psychological problems among children - how to identify and help.

Gave a Radio Talk on BALINA SANJE through A.I.R. Mysore station - related to psychological problems of the aged.

Seminars and Workshops/Conferences

The Annual conference of the Indian Association of Clinical Psychology was hosted by the department of Clinical Psychology staff lasted for 3 days i.e., 14th, 15th and 16th December 1983. A number of delegates from all over the country and some from abroad actively participated in the deliberations. A guest lecture was given by prof.SK.Ramachandra Rao under Dr.M.V.Gopala-Swamy's Memorial Lecture. Hypnosis demonstration was made by Prof.Sudhir Khetawat. This XIV Annual Conference was a grand success. All the staff and students of the Institute co-operated in making this conference a grand success.

A workshop is being planned to be held by the end of the current year on "Stress Management" which has an interdisciplinary focus to be held in Mysore. Correspondence has been initiated with experts outside and inside the country. We are also seeking grants from UGC, ICMR and ICSSR etc.,

Mr. P.Kalaiah, attended the XV Annual Conference of ISHA held at Madras.

Equipments

Equipments/Materials etc., under Plan worth Rs.22,337/- has already been procured, during the current year. The balance of Rs. approx. 28,000/- were to be spent on procuring an instrument called portapromta from abroad for which action is being initiated to procure it in the next year. The cost of equipment is Rs.28,000/- has been brought forward for the year 1984-85. It was not possible to procure this instrument during the current year, because of the other constraints.

Under Non-plan, equipment worth about Rs.5,000/- have been procured to department already. Equipment/materials worth Rs.35,000/- has already been placed orders.

PHYSICAL TARGETS SET FOR THE YEAR

Pg.No.68.

Achievements

Drawback

Target

Establishment of Psychology Laboratory.

Starting of Vocational and placement services

Undertaking the Research projects and publication - standardisation of tests.

Widening the area of therapy and community involvement.

Strengthen staff and material for camps

Accommodation has been made for establishing the psychological laboratory within the department.

A detailed proposal has been made to have a full fledged vocational rehabilitation services wing to function under the department.

Dr. J.Bharath Raj has undertaken a large scale study entitled personality trait Inventory (PTI) of the Indian Nationals as well as other nations in terms of collection of data. The process of data collection is almost complete. A statistical analysis working out the norms, arriving at the normative data are being awaited.

1. Staff of the department participated in several camps which were held during the year under report to disseminate information to the public regarding the various kinds of communication disorders and psychological problems.

2. The staff also participated in the school screening activities to examine the psychological defects among children.

3. Action has already been initiated in this regard.

Furnishing of the lab. could not be completed due to the paucity of funds.

Staff positions are still to be filled-up.

Work over this activity has not progressed.

--

1. Training Programme:

The training programme for B.Sc and MSc students has been completed successfully. Emphasis was made on students to learn the pathophysiology of Speech and Hearing problems through clinical demonstrations, and microscopic examinations. Facilities were also made to the students to witness the operations done at the K.R.Hospital, Mysore.

Dr. Shantha, Prof. of ENT K.R.Hospital, continued as visiting consultant at the Institute on Wednesdays and Thursdays during the absence of other doctors in the department, who are engaged at K.R.Hospital in connection with the operation.

Dr. Rama Mohan Rao Naidu, Professor, Head of the Department of ENT. K.R.Hospital, Mysore, has been appointed as visiting consultant at the Institute on Saturdays.

Dr. Viswanath, is working as resident at the department of ENT and he is also attending to the cases at the Institute as well as at K.R.Hospital including operation.

2. Diagnostics and Surgical Services

The department has rendered good clinical services to the cases. The waiting list of the operation is still continued due to shortage of staff. Co-operation of other sister departments in the field of diagnostics and attention has been given towards curative aspects, specially surgical aspects, for the restoration of voice and hearing improvement.

Micro-otological operations such as Stapedectomy, Myringoplasty, Tympanoplasty and maxillofacial surgeries were done.

The load of outpatients and of surgery is not manageable with the existing staff.

Different Activities:

1. Case of CSOM - both conservative and operative work was undertaken keeping in mind the two objectives (1) to prevent

infection and complication (2) To improve hearing by syrgical methods.

- ii. Prevention and cure of sensory otitis media. A project has been undertaken to prevent and cure senetory otitis media by Ayurvedic medicine, however, resistant cases were subjected for myringectomy and grimette.
- iii. Adhesive otitis media: To prevent progression of the disease minor surgical aspect was undertaken by way of introducing gronnette introduction. Results were not very hopeful.
- iv. Vertigo Clinic: Efforts are being made to start the vertigo clinic.

Medical and surgical services rendered:

<u>OPD at K.R.Hospital</u>	New cases	10759
	Old cases	<u>9286</u>
	Total:	<u>20045</u>
<u>OPD at AIISH</u>	New cases	4133
	Old cases	<u>5088</u>
		<u>9221</u>
<u>Operation at KRH</u>	Major	244
	Minor	<u>30</u>
		<u>274</u>

Equipment added:

1. Articulated optical arm with hopkins lens system. This is being used as demonstration purposes.
2. Hopkins lateral telescope 70° - using as diagnostic purposes
3. Nystagmus spectacles - Using in detecting the positional Nystagmus and spontaneous nystagmus.

Follow-up of cases and counselling

Post-operative follow-up of cases was continued. Each case was given particular attention to prevent secondary infection and benefit of surgical treatment assessed by specialised me

Research projects undertaken:

Cryo therapy for cancer in Speech and hearing field.
Camp stapedectomy done at Eluru, Andhra Pradesh for the first time by the ENT department.

Conferences attended by the staff:

Dr. Susheela: Attended the All India Otolaryngology Conference held at Ahmedabad from Jan 6th to 8th.

Attended State Otolaryngology conference held at K.R.S and presented a paper on 'Validity of patch test in type I Tympanoplasty'.

Attended south zone conference of ENT held at Vellore and read a paper on inter state oto sclerosis - A camp experience.

Dr. Rathna Sabhapathy: Attended the All India ENT conference held at Ahmedabad in January 6th to 8th 1984.

Attended state otolaryngologist conference held at KRS, Mysore State.

Physical Targets set for the year - Achievement during the year - Short-comings - etc.

Except the special activities as narrated above, the other targets were not started. However, requests have been made to implement in the next year.

To set up of laboratory unit, a laboratory technician is required.

Vertigo clinic needs the ENG machine, and the ENG machine is out of order. However, request has been sent to get the approval for the post and to get the ENG machines repaired for use.

Other Services: Clinical services are extended by way of conducting Speech and Hearing camps outside the states as well as in the state.

Issued certificates to deserving handicapped cases to obtain maintenance allowance from the Government of Karnataka.

Follow up and data collection for selection of suitable patients for surgery and to improve hearing and voice disorders has been taken.

DEPARTMENT OF ELECTRONICS

Functions:

1. Teaching
2. Training BSc and MSc students
3. Maintenance, servicing and calibration of Electronics Equipments.
4. Research and Development
5. Technical advise and assistance to external organisations.

Activities:

1. Teaching: The training programme in electronics and acoustics and instrumentation was completed successfully for both BSc and MSc students. The Post-Graduate students were assisted for their technical problems to complete their dissertations and independent projects.

2. Additional activities:

1. Training to B.Sc students of B.M.Institute, Ahmedabad in calibration and maintenance of Speech and Hearing equipment including hearing aids - May 1983.
2. Training to students from PGI, Chandigarh BSc students are trained in the instrumentation and calibration of equipment February 1984.
3. Technical services: Maintenance, Servicing and calibration of equipment.

The staff has extended the co-operation in selection, scrutinisation of quotations, specifications, installing the equipments, testing and certifying the new hearing aids etc.

4. Services

1. Major repairs	- 82
2. Minor repairs	174
3. Hearing aids of patients repaired	734
4. Hearing aids certified under Social Welfare Scheme for free distribution	870

5. Mini infant screening Audiometer: For testing infants. Technology has been developed by the electronics department. The project is under progress.

6. Mini Cord tester cell tester and receiver tester: This is very ideal instrument to be used in camps. Technology has been developed by the electronics staff of the Institute.

The project completed. It is being used successfully in camps.

It is proposed to take up few more projects in addition to the above.

Special course attended: Sri S.S.Murthy, Lecturer in Electronics has taken a course in Microprocessor conducted by the Computer Maintenance Corporation of India, Government of India, organised at Hyderabad during October 1983.

Sri. S.S.Murthy, Lecturer in Electronics, Smt. VG.Jayashree Scientific Assistant and Smt.BR Chudamani, Technical Assistant attended a seminar on computer application held in Mysore in 9th April, 1983.

Seminars and conferences attended: Sri S.S.Murthy, Lecturer in Electronics and Sri. S.Narayana Raju, Electronics Engineer has extended technical assistance to the Indian Clinical Psychologists Association Annual Conference held at Mysore during December 1983.

Guest Lectures: Sri. S.S.Murthy, Lecturer in Electronics had arranged Guest lectures by:

1. Mukhesh Shaw, Computer Engineer, USA, in the month of December, Topic "Recent Development in Computer Technology" and its application in Medical Sciences.
2. Ramesh Shaw, Psychiatrist USA, Beakley University, in the month of December 1983. He gave lecture on "Psychiatric problems associated with speech and Hearing problems in USA and its present status."

5. No. of electrical repairs carried out by electrician under electronics staff supervision	154
6. New works taken by the electrician	115
7. Films and Slides projection and Public Address System	20
8. External services extended to ALPS Hearing Co. and IISc., Bangalore.	2

Speech and Hearing Camps:

The equipments taken for camps held in and outside Karnataka was tested and calibrated and services rendered successfully.

Exhibitions:

Electronics staff rendered all necessary services in conducting the exhibition at Varthabhavan, Mysore on 8.8.83.

R & D Activities: Total No. of projects undertaken - 5

1. 'S' Indicator: Instrument used for speech therapy. Technology has been developed for indigenous productions in collaboration with National Institute of Engineering, Mysore.

The Project has been completed successfully.

2. Oral Cavity Resonator: Instrument used to find out resonance frequency of oral cavity. Technology has been developed in collaboration with NIE, Mysore.

Project Successfully completed.

3. Portable Screening Audiometer: Instrument used for screening cases, for their hearing technology has been developed for indigenous production in collaboration with NIE, Mysore.

The project has been completed successfully.

4. Narrow Band Filter Set: For analysing speech signals to be used in speech pathology department of the Institute. The project is under completion.

PUBLICITY AND INFORMATION

To create public awareness, public education programmes such as, camps and exhibitions have been conducted. These programmes have become very popular and have helped a considerable number of people who could not have got the services of the experts. Further, there has been a considerable reduction of financial burden on the part of the sponsoring agencies. The Institute now bears fifty per cent of the travel expenses. Though there were several requests to conduct 'Speech and Hearing Camps' it was not possible to honour many of the requests due to the committed programmes at the Institute and also due to insufficient personnel and equipment for this purpose. Inspite of the limitations 27 camps were held wherein a total number of 6533 cases were examined. The details are as given in the following table;

Date	Place	Duration days	No. of cases
24/4/83	Mercara	1	13
25/4/83	Periyapatna	1	204
26/4/83	Saniwarsanthe	1	138
27/4/83	Mudigere	1	108
29/4/83	Arsikere	1	788
17/7/83	Halagur	1	340
27/8/83	Eluru	1	35
28/8/83	Tadepalligudam	1	206
29-30/8/84	Nidadavollu	2	283
31/8/83 (X)	Rajhundry	2	311
01/9/83 X			
3-4-/9/83	Palakollu	2	265
5-6/9/83	Vijayawada	2	276
7-8/9/83	Gudivada	2	308
2/10/83	T.Narasipur	1	130
8/10/83	H.D.Kote	1	216
23/10/83	Yellandur	1	205
3/11/83	Challakere	1	325
4/11/83	Chitradurga	1	276
5/11/83	Hosadurga	1	193

5-7/11/83	Shomoga	2	297
12/11/83	Pandavapura	1	250
25/12/83	Salem	1	360
12/2/84	Bellary	1	256
13/2/84	Koppal	1	180
17/2/84	Sagar	1	319
18/2/84	Tirthahalli	1	208
19/2/84	Bhadravathi	1	376

In the camp at Eluru seventeen stapedectomy operations were also done. Necessary medical and rehabilitation facilities were provided. Both the students and staff from different departments/Units participated in these camps.

EXHIBITION: As a part of the celebrations of the Institute anniversary, Exhibition was held for the public in the 'Vartha Bhavan' and it proved to be very successful one.

VISITORS: 1485 visitors from thirty institutions from different parts of the country visited the Institute apart from the following:

Dr. Beverely Powell: Consultation paediatrician, George Town University Hospital, Washington D.C. USA.

Dr. Mansfred Spring, Bonn, West Germany.

Mrs Anne Warrick, Speech/Language Pathologist, Blissymbolic Communication Institute, Ottawa, Canada.

Mrs Sudha Kaul, Vice-Chairman, Spastic Society of Eastern India, Calcutta.

Mrs Ann Mari Caunce, Speech Pathologist, Sheffield, UK.

An All India Press Party sponsored by the Ministry of Health and Family Welfare, Government of India, New Delhi.

A Delegation of Vice-chancellors of the Australian Universities.

prof. B.H.Colman, Director of Otolaryngology, Univ.Medical School, University of Oxford, Oxford.

Dr.Ramesh Shah: Psychologist, Medical Director and Psychiatrist: St.Albani Medical Health Centre, Berkeley, West - Virginia, USA.

Mr.Philipose Mathai, Secretary to the Govt. of Karnataka, Ministry of Social Welfare and Smt.Usha Ganesh, Director, Woman and Children's Welfare Dept.

Smt.Prathibha Bharathi, Minister for Social Welfare, Govt. of Andhra Pradesh.

Smt.Chandra Prabha Urs, Minister for Sericulture and Social Welfare, Government of Karnataka.

Prof. Dr.Med Jan Helms, Otolaryngologist, West Germany

Mr.Donalds Wollman, Education Adviser, Commonwealth Society for the Deaf, London.

UNICEF TEAM:

Dr.Ghoshal, Additional DGHS, New Delhi.

Sri Tej Prakash, Dy.Secretary, Union Ministry of Social Welfare, New Delhi.

Air Marshal S.K.C.Guptha (VB) New Delhi.

IACP Delegates

OTHER WORKS:

On 2nd October (Gandhi Jayanthi) District Rehabilitation Centre at T.Narsipur was launched and the Second National Football Tournament for the Deaf was conducted from 26th to 30th October.

Proposals have been submitted for the development and expansion of the Publicity and Information Unit into a full fledged Dept.

On 9th August Institute celebrated its XVIII Anniversary.

World Day of the Disabled was observed on the third sunday of March. Open painting competition was held for the deaf children.

LIBRARY

During the period under report more than SEVEN HUNDRED NEW TITLES have been acquired.

The entire collection of books were classified and catalogued along with the reprints, dissertations and films.

We have nearly 1,000 reprints, about 75 films, 121 Dissertations and 53 Independent projects in addition to book collection.

More than 1,500 volumes got bound during this period.

Special services like, the Inter Library Loan, Reference Services, Special Subject Bibliographies were rendered.

Bibliography of all articles of the Journals are being done.

CONFERENCE/SEMINAR REPRESENTED:

- I Sri M.V.Govindarajan, Librarian attended the
 1. National Workshop on Standards of Health Science Libraries in India held at New Delhi from 28th October 83 to 30th October 1983.
 2. The 29th Indian Library Association Conference held at the University of Mysore from 5th December to 9th December 1983. He was the chairman of the Souvenir Committee and also member of the Organising Committee of the 29th Indian Library Association Conference.
- II Sri Mahadev, catalogue took the 4th Training Course in Health Science Librarianship conducted by the National Medical Library, New Delhi from April 11th to May 13th 1983. He also attended the 29th Indian Library Association Conference held at the University of Mysore from 5th to 9th December 1983.

STATISTICS AT A GLANCE

1. No. of Books issued to staff and students	13,985
2. No. of books consulted by staff and students	21,200
3. Average Issue per day	105
4. Total No. of books at the end of the year	7,786
5. No. of New Books added	748
6. No. of Journals on the subscribed list	88
7. No. of Journals exchanged	6

MEDICAL RECORDS

CLINIC STATISTICS:

Cases seen during the year 1983-84:

New cases seen	...	6493
Daily average	...	22
Therapy cases	...	12405
Daily average	...	43
Repeat cases	...	10098
Daily average	...	35
Total No. of casēs	...	28996

AGE-WISE

<u>Age Groups</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
0 - 5	601	387	987
5 - 10	475	321	796
10 - 15	851	589	1440
20 - above	<u>2117</u>	<u>1152</u>	<u>3269</u>
	<u>4044</u>	<u>2449</u>	<u>6493</u>

O.P.D. at K.R.Hospital

New Cases	-	10759
Old Cases	-	<u>9286</u>
Total:	-	<u>20045</u>

Operations done at K R Hospital

Operations:

Major	...	219
Minor	...	<u>39</u>
Total	:	<u>258</u>

STATEMENT SHOWING THE NEW CASES SEEN IN THE INSTITUTE
STATEWISE & OVERSEAS

(Excluding cases seen at K.R.Hospital, Camp)

<u>Sl.No.</u>	<u>States</u>	<u>No. of cases</u>
1.	Karnataka	6087
2.	Kerala	126
3.	Tamil Nadu	149
4.	Andhra Pradesh	88
5.	4 Territories	8
6.	Assam	6
7.	Gujarath	1
8.	West Bengal	2
9.	Uttar Pradesh	4
10.	Maharashtra	7
11.	Orissa	4
12.	Madhya Pradesh	3
13.	Rajasthan	-
14.	Bihar	5
15.	Punjab	-
16.	Harayana	1
17.	Jammu & Kashmir	-
18.	Overseas - Middle East	2
Total		6493

<u>DIAGNOSIS</u>	<u>No. of cases</u>
Hearing loss	1852
Hearing loss & other problems	943
Stuttering	320
Misarticulation	105
Delayed speech and language	351
Voice	103
Mental retardation	350
Aphasia	31
Cerebral palsy	8
Brain damage	6
Normal	250

Incomplete (did not stay for complete examination & advice)

395

Laryngectomy

2

ENT

1777

Total No. of New Cases

6493

Speech and Hearing Problems

3971

Incomplete cases

495

Normal

250

ENT problems

1777

<u>YEAR</u>	<u>NEW CASES</u>	<u>MYSORE CITY</u>	<u>MYSORE DISTRICT</u>
1981-82	4742	1971	702
1982-83	5668	2487	1014
1983-84	6493	2872	1178

Cases seen in the year April 1983 to March 1984.

<u>New cases</u>	<u>Daily average</u>	<u>Therapy cases</u>	<u>Daily average</u>	<u>Repeat cases</u>	<u>Daily average</u>
6493	22	12405	43	10098	35

E.N.T

Statistics during 1983 to 1984.

Cases seen at A.I.I.S.H.

Old Cases - 5086

New cases - 10759

Operations done at K.R.H.

Major 219

Minor 39

CIVIL ENGINEERING

MAJOR WORKS UNDERTAKEN AND COMPLETED:

1. Staff Quarters:
(III Phase) During 1983-84, the construction of staff quarters III phase Type 'D' (2 Numbers) was taken up at an estimated cost of Rs.3,89,800/-. The construction work started on 15.10.1983 and has come up to roofing level and is expected to be completed by the end of July'84.
2. Dharmashala
(Patients Block) The Grant in Aid of Rs. 2,00,000/- has been received from the Government of Karnataka for construction of Dharmashala (patients Block). The construction work was started during middle of November at an estimated cost of Rs. 2,75,000/-. The work has come up to the roofing level and is expected to be completed by the end of July 1984.
3. Overhead Tank: During 1983-84, grant of Rs.3,00,000/- has been allotted for construction of Overhead Tank. The work has been entrusted to Karnataka Urban Water Supply and Drinage Board Division, Mysore. The above Division has forwarded the estimate to the Superintending Engineer, Bangalore for approval of the estimate. The construction work will be taken up shortly.
4. Staff Quarters:
(IV phase) Construction of two more staff quarters - Type 'D' (IV Phase) has been approved for which tenders were invited during March 1984 and the work has been entrusted to a contractor on lowest tender rates of 1983-84. The above construction work will be started during first week of May 1984 and is expected to be completed by the end of December 1984. The estimated cost is Rs.3,90,000/-.

MINOR WORKS UNDERTAKEN AND COMPLETED:

1. Construction of Room/
Hall of AIISH Co-operative Society.
During 1983-84, the construction of a Room/Hall for AIISH Co-operative Society was taken up and completed during September 1983 at an estimated cost of Rs. 37,400/-.
2. Construction of
Detachable Scooter/
Bicycle Stand.
At an estimated cost of Rs. 17,517/- the detachable Scooter/Bicycle Stand was taken up and completed during Sept.83.
3. Construction of
FERN HOUSE (Garden
Nursary I Phase)
This work was taken up and completed at an estimated cost of Rs. 29,954/- during July 1983.
- Construction of
FERN HOUSE (Garden
Nursary II Phase)
Additions and Alterations and Water Tank for the above Fern House has also been taken up during November '83 and is expected to be completed in all respects would be completed by the end of May 1984.
4. Construction of Room
for housing the Gene-
rator Set.
The construction of Room for housing the Generator set was taken up in December 1983 would be completed during April 1984.

HORTICULTURE

No. AHO/2/84-85 Dt.6.4.84

Progress made during
the year in respect
of different activi-
ties

Achievements during
the year.

1.Maintained Garden

1.Prepared the newly Rose
Garden and planted 150
plants.

2.Propagation to
oranamental plants

2.Cleaning of Weeds in the
Garden

3.Planted Rose plants
newly and maintained

3.Prapagated 200 pot plants
of oranamental

4.Maintained to fruit
orchard the Goava,
Sapota and other varieties
and additional taken up
vegetable cultivation.

4.Prepared pathies to all the
fruit plants and maintained.

5.Taken-up vegetable cultivation
varity wise (one) Water Mellan
(two) Tomoto (three) Brinjal and
other varieties.

DISTRICT REHABILITATION CENTRE A PILOT PROJECT IN KARNATAKA

1. Laid the foundation stone for the small unit at the primary Health Centre Level at T.Narsipur on 2nd October 1983. It was followed up with three camps - one for Speech and Hearing, one for Orthopaedic problems and one for Leprosy. More than 500 people were examined. The camps were organised with the help of the Lions Club at T.Narsipur. Also had a public education programme by way of Films on the handicapped in the evening with the help of the Regional Publicity Office.
2. Met the Anganwadi Workers of the taluk and spoke to them about the needs of the handicapped and how they can help in this regard.
3. The matter regarding permission for construction of a small unit at PHC level at T.Narsipur and at Deaf School, Mysore is in correspondence with the Department of Social Welfare, Government of Karnataka.
4. Rent Controller, Mysore has been approached for allotment of a house for locating our centre.
5. Following posts have been filled after fulfilling the requisites procedures i.e., advertisements, interviews and selection: Upper Division Clerk, Speech Therapist, Audiologist, Record-Keeper, Jr. Stenographer, Lower Division Clerk, Peon and Sweeper.

Necessary steps are being taken up for filling up the remaining vacant posts.
6. Deputation of one Health Educator to work as Rehabilitation Aide is under correspondence with the Department of Health and Family Welfare.
7. Awaiting Project Officer on deputation to join the project. Project Officer is to be selected by Department of Social Welfare and Labour Department.

8. Have purchased initial requirement of furniture for starting the project.
9. Enquired regarding purchase of Technical Equipments are under process.
10. A standard (Diesel) Van has been allotted for the project. Delivery of Van is expected shortly.
11. Held discussions with the secretary, Social Welfare, Karnataka and UNICEF regarding the project. Meeting was also held regarding UNICEF support to the project.

ESTABLISHMENT/PERSONNEL

Staff Position

Sl. No.	Category	Sanctioned posts			Existing staff			Remarks
		Per.	Temp.	Total	Per.	Temp.	Total	
1.	Gr.A	15	10	25	9	7	16	
2.	Gr. B	4	9	13	3	9	12	
3.	Gr.C	37	22	59	31	23	54	
4.	Gr.D	27	6	33	24	9	33	
		83	47	130	67	48	115	

Vacant Posts as on 31.3.1984.

1. Professor of Sp.Path. 1
2. Professor of ENT 1
3. Reader in Audiology 1
4. Lecturer in ENT 1
5. Lecturer in Sp.Path 1
6. Clin. Lecturer 1
7. Lecturer in Clin.Psy 1
8. Lecturer in Linguistics 1
9. Asst. Engineer 1
10. Jr.Accounts Officer 1
11. Clin.Assistant 2
12. Res. Assistant 1 (SWS)
13. Sc. Assistant 1
14. Draughtsman 1

DIRECTOR

Dr.N.Rathna, MS(Hunter), MS(Gallaudet), MAT ED.D(Indiana)

ADMINISTRATIVE OFFICER

Sri.S.Shankar, MA(Pub.Admn),MA(Pol.Sc), BL., R.B.V.

DEPARTMENT OF SPEECH PATHOLOGY

1. Reader and Head of the Dept. Dr. Prathibha Karanth
M.Sc. Ph.D (Sp & Hrg)
2. Reader in Speech Sciences Sri NP Nataraja, M.Sc.
(Speech & Hearing)

3. Lecturer
a. Lecturer
Sri G.Purushothama
M.Sc (Speech & Hearing)
Sri Jayaram
4. Lecturer
a. Lecturer
Smt. MA Mythili
(Leave vacancy of Sri.G.Puru-
shothama who is deputed abroad)
Sri P.J.Kumar
5. Research Assistant
Sri A Jagadish M.Sc.(Sp. & Hrg)
6. Clinical Assistant
Sri P Chandra, B.Com., B.Ed.
7. Clinical Assistant
Sri M B Purushothama
B.Sc. (Speech & Hearing)
8. Research Assistant
Sri MG Subramaniaiah
M.Sc. (Speech & Hearing)
9. Itinerant Speech Therapist
Smt. Indira Prakash
B.Sc. (Speech & Hearing)
10. Jr. Stenographer
Smt. Susheela Bai
11. Clinical Attendant
Sri C.Chowdaiah
12. Clinical Attendant
Sri Narayana

AUDIOLOGY:

1. Professor & Head of the Department
Dr.(Miss) S.Shailaja Nikam
MA(Psy) MA (Sp) Ph.D
(Aud. & Sp.Sc)
2. Lecturer
Dr. MN Vyasamurthy
M.Sc (Speech & Hearing)
3. Lecturer
Sri J.D.Samuel
M.Sc (Speech & Hearing)
4. Research Officer
Ms. M.S.Malini
5. Research Officer (SWS)
Ms. Joan D.Mello M.Sc(Sp. & Hrg)
6. Clinical Supervisor
Ms. R.Manjula M.Sc (Sp & Hrg)
7. Clinical Assistant
Shri E.P.Balakrishna
MA, MED., MED., MSc.
8. Clinical Assistant
Smt. Sowmyamala, B.Sc., B.Ed.
9. Clinical Assistant
Ms. Y.V.Geetha M.Sc (Sp & Hrg)
10. Research Assistant
Smt. KS Prema
11. Research Assistant
Ms. S.G.Gayathri

- | | |
|--------------------------------|----------------------|
| 12. Research Assistant | Ms Geetha Mukundan |
| 13. Prosthetic Dental Mechanic | Shri G.Nagarajan |
| 14. Jr. Stenographer | Smt. R.Rajalakshmi |
| 15. Peon | Sri B.Basavalingaiah |
| 16. Peon | Sri Hoblaiah |

DEPARTMENT OF CLINICAL PSYCHOLOGY

- | | |
|---------------------------------------|---|
| 1. Professor & Head of the Department | Dr. J.Bharathraj MA (Psy)
D.P.M., Ph.D |
| 2. Reader | Shri P.Kalaiah MA(psy) DM &SP |
| 3. Lecturer | Smt AD Bhavani MA (Psy)
B.Ed. DM & SP |
| 4. Assistant Lecturer | Shri Antony Thomas |
| 5. Clinical Assistant | Smt Iffath Aslam BA B.Ed |
| 6. Sr. Stenographer | Sri T.Keshavamurthy |
| 7. Research Assistant | Ms. S.Nagalambike |
| 8. Peon | Sri Bhim Bahadur |
| 9. Lab. Technician | Sri L.Krishnarangaraju |

DEPARTMENT OF ENT

- | | |
|--------------------------------------|---|
| 1. Reader and Head of the Department | Dr. M.V.Susheela MBBS.,
MS (ENT) DLO |
| 2. Lecturer | Dr. K.Rathnasabhapathi
MBBS |
| 3. Resident in ENT | Dr. K.Viswanath |
| 4. Staff Nurse | Smt MG Mariamma |
| 5. Staff Nurse | Smt J Raghuna |
| 6. Ward Boy | Sri S Mallaiah |

DEPARTMENT OF ELECTRONICS

- | | |
|------------------------------|--------------------------------|
| 1. Lecturer | Shri SS Murthy, M.Sc (Tech) |
| 2. Electronics Engineer | Sri S.Narayana Raju, B.Sc AMIE |
| 3. Scientific Assistant | Vacant |
| 4. Technical Assistant | Ms.BR Chudamani |
| 5. Electrician (Pro-tempore) | Sri Prakash |
| 6. Peon | Sri D.Krishnaiah |

LIBRARY

- | | |
|--------------------|-------------------------------------|
| 1. Librarian | Sri MV Govindarajan
MA B.Lib.Sc. |
| 2. Cataloguer | Sri M Mahadeva, MA. B.Lib.Sc |
| 3. Clin. Attendant | Sri S.Gopal |

MEDICAL RECORDS

- | | |
|--------------------------------------|--------------------------------|
| 1. Assistant Medical Records Officer | Sri CD Shanbal |
| 2. UDC | Sri BS Gururaja, B.Sc DMR Sc., |
| 3. Peon | Sri S.Siddaiah |

OFFICE AND OTHERS

- | | |
|--|--|
| 1. Office Superintendent | Sri KH Radha Krishna |
| 2. Junior Accounts Officer | Vacant |
| 3. Senior Accountant | Sri. S.L.Vijayanarasimha
(Officiating as JAO on Pro-tempore basis w.e.f. 14-9-1983) |
| 4. Accountant | Sri K Purushothama
(Officiating as Sr.Accountant on Pro-tempore basis w.e.f. 14-9-1983) |
| 5. Hindi Translator | Smt H.P.Umasaraswathi |
| 6. P.A to Director | Smt. S.Padmavathy Bai |
| 7. UDC in selection grade | Sri SG Gopinath (Officiating as Accountant w.e.f. 14-9-83) |
| 8. UDC | Sri NS Subramanya |
| 9. UDC | Sri MPP Urs |
| 10. UDC | Sri GH Anandram |
| 11. UDC | Sri AN Prasad |
| 12. UDC | Sri N Ramachandra Rao |
| 13. UDC | Smt BV Jyothi |
| 14. Store Keeper | Sri Basavaiah |
| 15. Care Taker | Sri L.Siddaiah |
| 16. Junior Stenographer | Smt N Parimala |
| 17. Staff Car Driver | Sri MK Ramappa |
| 18. LDC in selection Grade w.e.f. 5-3-1983 | Sri GR Prakash (Officiating as UDC w.e.f. 14-9-1983) |
| 19. LDC | Sri R.Kannan |

20. LDC
21. LDC
22. LDC
23. Omni Bus Driver
24. Jr. Documentation Asst.
25. Sr. Gestetner Operator
26. Receptionist
27. Graduate Assistant

Sri MB Shankar
 Sri Mallikarjunaiah
 Sri Somanna
 Sri A Jesurathnam
 Sri P. Shivaprakash
 Sri Madhu
 Ms. PN Nandajyothi
 Ms. BH Annapurna

ENGINEERING DIVISION

- | | |
|-----------------------------|---------------------------|
| 1. Asst. Executive Engineer | Shri Rabindra Simon |
| 2. Executive Engineer | Vacant |
| 3. Junior Engineer | Shri R. Shankar Rao Kadam |
| 4. Draughtsman | Vacant |
| 5. UDC | Shri MPP Urs |
| 6. Care Taker | Shri L Siddaiah |

INTERNAL AUDIT CELL

- | | |
|--------------------|-----------------------|
| 1. Section Officer | Shri TKN Prasad |
| 2. UDC (Auditor) | Shri M. Krishnamurthy |

HORTICULTURE

- | | |
|-------------------------------|-----------------------|
| 1. Asst. Horticulture Officer | Shri. R. Srinivasaiah |
|-------------------------------|-----------------------|

PUBLICITY AND INFORMATION

- | | |
|----------------------------------|-------------------------------|
| 1. Publicity Information Officer | Sri K. Md. Fazlulla, M.A.B.L. |
| 2. Artist-cum-Photographer | Sri G V Ganeshaiah |

OTHERS

- | | |
|-----------------------------|--------------------|
| 1. Daftry | Sri B. Siddaiah |
| 2. Clinical Attendant | Sri BR DASAVARAJU |
| 3. Clinical Attendant | Shri S Subramanya |
| 4. Peon | Shri KM Venkatesh |
| 5. Watchman Selection Grade | Shri Thimappa |
| 6. Watchman | Shri Dasappa |
| 7. Watchman | Shri Padam Bahadur |
| 8. Watchman | Shri S Shivappa |
| 9. Watchman | Shri Kannappan |

10. Watvman	Shri RH Venkatarama Gowda
11. Packer	Shri D Kendaiah
12. Counter Clerk	Shri M Rajappa
13. Cook (Gents Hostel)	Shri K Ramaswamy
14. Cook (Ladies Hostel)	Smt Gowramma
15. Coffee Tea Maker	Sri Gaviappa
16. Mali in Selection Grade	Sri Chowdaiah
17. Mali	Sri Marinanjaiah
18. Mali	Sri Mahadeva
19. Mali	Sri Papanna

APPOINTMENTS

1. Reader in Speech Sciences	Shri NP Nataraja	20.5.83
2. Reader and Head of the Department of Speech pathology	Dr.Prathiba Karanth-	25.7.83
3. Asst. Executive Engineer	Shri P.Laxshminarayana-	16.9.83 A/N (Relieved on transfer)
4. Lecturer in Language and Language Disorders	Dr.M.Jayaram	3.10.83
5. Assistant Lecturer in Clinical Psychology	Shri Antony Thomas	19.12.83
6. Jr. Accounts Officer	Shri S.Girija Shankar	-8.4.83
7. Section Officer (I.A.Cell)	Shri TKN Prasad	- 2.1.84
8. Asst. Horticultural Officer	Shri R.Srinivasaiah	17.8.83
9. Research Officer	Ms. Malini	23.5.83
10. Research Officer (SWS)	Ms.Joan D'Mello	19.10.83
11. Clinical Supervisor	Ms.R.Manjula	11.4.83
12. Junior Engineer	Shri M.Shankar Rao Kadam	7.7.83
13. Clinical Psychologist	Shri P.Vidyasagar	16.5.83
14. Clinical Assistant	Ms YV Geetha	11.4.83
15. Clinical Assistant (SWS)	Shri A Jagadish	3.3.83 (appointed as Res.Asst. w.e.f. 2.4.83)
16. Clinical Assistant (SWS)	Ms.Joan D'Mellow	12-4-83 (appointed as Res.Officer w.e.f. 19.10.83)
17. Research Assistant (SWS)	Ms. SG Gayathri	1.5.83 (appointed as Res.Asst. (Regular) w.e.f. 29.7.83)

Clinical Assistant	Shri G.Jayarama	28.4.83	A/N
Clinical Assistant (SWS)	Ms.Geetha Mukundan	9.5.83	
Research Assistant	Ms.SG Gayathri	29.7.83	A/N
Research Asst(Leave vacancy)	Ms.Geetha Mukundan	29.7.83	A/N
Research Assistant (SWS)	Ms. KS Prema	19.10.83	
Research Assistant (Clinical Psychology)	Shri Antony Thomas	20.10.83	(Appointed as Asst.Lec, w.e.f.19.12.83)
Research Assistant (Clinical Psychology)	Ms. S.Nagalambike	29.12.83	
Accountant	Shri K,Purushothama	1.7.83	
UDC	Shri G H Anandram	22.6.83	
UDC	Smt BV Jyothi	1.7.83	
UDC	Shri A N Prasad	22.7.83	
Lab Technician	Shri L.Krishnarangaraju	23.12.83	
Auditor (I.A.Cell)	Shri M.Krishnamurthy	2.3.84	
LDC	Shri Somanna	8.6.83	
Receptionist	Ms. PN Nandajyothi	15.6.83	
Graduate Assistant	Shri Basavasetty	27.6.83	(Resigned w.e.f. 29.6.83)
Packer	Sri D.Kendaiah	25.5.83	
Watchman	Sri RH Venkatarame Gowda	14-10-83	
Sweeper	Smt. Amasamma	8.8.83	

GRADUATION

Off Car Driver Post upgraded to Rs. 330-560 w.e.f. 19.7.83

SIGNATION

Graduate Assistant	Sri Basavasetty	w.e.f. 27.6.83
Scientific Assistant	Ms.VG Jayashree	w.e.f. 21.1.84 A/N

..97..

1983-84

The committee constituted for this purpose meet periodically to review the work done.

Advisory Committees:

I LIBRARY STANDING COMMITTEE:

- | | |
|-----------------------------|------------------|
| 1. Dr.J.Bharath Raj | Chairman |
| 2. All Heads of Departments | Members |
| 3. Senior Accountant | Member |
| 4. Junior Accounts Officer | Member |
| 5. Librarian | Member Secretary |

II AGRI-HORTICULTURAL COMMITTEE:

- | | |
|-------------------------------|------------------|
| 1. Sri N.P.Nataraja | Chairman |
| 2. Sri K.H.Radhakrishna | Member |
| 3. Sri L.Siddaiah | Member |
| 4. Sri Chowdaiah | Member |
| 5. Agri-Horticultural Officer | Member Secretary |

III ADVISORY COMMITTEE FOR HOSTELS:

- | | |
|--|-------------------|
| 1. Dr (Miss) S.Nikam | Chairman |
| 2. Sr S.S.Murthy | Member |
| 3. Assistant Executive Engineer | Member |
| 4. 2 Representatives one each
selected from Gents & Ladies
Hostels | Member/s |
| 5. Wardon, AIISH | Member Secretary. |

IV MANAGING COMMITTEE, AIISH DEPARTMENTAL CANTEEN:

- | | |
|---------------------------|----------|
| 1. Administrative Officer | Chairman |
|---------------------------|----------|

- | | |
|----------------------------|----------------------------------|
| 2. Smt.A.D.Bhavani | Member |
| 3. Smt.V.G.Jaishree | Member |
| 4. Smt.H.P.Uma Saraswathi | Member |
| 5. Sri Bhim Bahadur | Member |
| 6. Sri M.Rajappa | Member |
| 7. Sri.S.L.Vijayanarasimha | Hon.Secretary
(upto 10-10-83) |
| 8. Sri.K.Purushothama | Hon.Secretary
(from 11-10-83) |

V OFFICIAL LANGUAGE IMPLEMENTATION COMMITTEE:

- | | |
|--|--------------------------------------|
| 1. Dr M.V.Susheela | Chairman |
| 2. Administrative Officer | Liaison Officer/
Member Secretary |
| 3. Smt. Uma Saraswathi | Member |
| 4. Representative from Hindi
Teaching Scheme. | Member |

VI MANAGING COMMITTEE, STAFF WELFARE FUND:

- | | |
|-----------------------------|---------------|
| 1. Dr.N.Rathna | Chairman |
| 2. Sri.J.D.Samuel | Hon.Secretary |
| 3. Junior Accounts Officer | Hon.Treasurer |
| 4. Smt.V.J.Jaishree | Member |
| 5. Sri.S.Mallaiah, Ward Boy | Member |

PURCHASE

Equipment:

Expenditure as indicated below has been incurred for purchase of equipment for the various Departments/sections.

1. Department of Speech Pathology	77,874-50
2. Department of Audiology	1,31,849-15
3. Department of E.N.T.	1,08,880-35
4. Department of Clinical Psychology	45,498-40
5. Electronics	33,506-01
6. Office Equipment	27,405-20

TRAINING

No. of students admitted during 1983	No. of students appeared for exam during 1983	No. of students passed during 1983
B.Sc. I Year 19	18	16
B.Sc. II Year 20	20	18
B.Sc. III Year	19	19
M.Sc. I Year 13	13	13
M.Sc. II Year 12	12	12