

## **CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES**

### ***4.1. Physical Facilities***

*4.1.1. What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?*

The primary focus of the institute is to generate manpower to cater to the needs of persons with various communication disorders due to speech, language and hearing impairments. Hence the institute thrives to produce manpower at different levels starting from certificate courses to post doctoral programmes, with the intention of meeting the needs starting from the grass root level to reach out to the community to research and development in the field of speech-language pathology and audiology as a super specialty. To fulfill these needs, the institute has:

- State-of-the-art infrastructure facilities,
- International standard laboratories,
- Guest houses for international faculty and others,
- Technology mediated classrooms,
- Excellent infrastructure for clinical training in core and allied areas of the specialty,
- Special clinics,
- Qualified faculty and technical staff,
- Good administrative support,
- Extension activities in rural and semi rural areas
- Facilities for tele diagnosis and rehabilitation,
- Gymkhana facilities for co curricular, extracurricular and recreational activities of staff and students of the institute,
- Learning resources such as library and information centre,
- E-Resources, internet and Wi Fi facilities,
- CCTV for online supervision and monitoring of clinical activities,
- Videoconferencing for academic and other purposes,
- Software for various academic, clinical and research programmes etc.

This has created an effective environment for teaching and learning. Specific funds under plan-capital grants are also allocated for creation and enhancement of infrastructure that facilitate effective teaching and learning.

4.1.2 *Detail the facilities available for:*

a) *Curricular and co-curricular activities:*

- i. *Classrooms:* The existing academic block which is housed in the main campus (Naimisham Campus) of the institute has 10 well equipped small classrooms, one mini seminar hall, one video conferencing room each with a seating capacity of 50 except for the mini seminar hall.
- ii. *Technology enabled learning spaces:* The classrooms have the state-of-the-art-audio-visual facilities which include LCD Projectors and computers. Junior research fellows are provided individual workstations and other facilities. A high-tech video conferencing classroom and seminar hall facilitates education, training and rehabilitation through distance mode
- iii. *Seminar halls:* There is an air-conditioned seminar hall with a seating capacity of 180. There is one mini seminar hall with seating capacity of 70.
- iv. *Tutorial spaces:* the practical and clinical training takes place in various departments and in 13 special clinics which are as follows:
  1. Augmentative and Alternative Communication Unit.
  2. Autism Spectrum Disorders Unit.
  3. Caregivers Literacy Training Unit.
  4. Clinic for Adult and Elderly Persons with Language Disorders (CAEPLD).
  5. Fluency Unit.
  6. Implantable Hearing Device Unit.
  7. Learning Disability Clinic.
  8. Listening Training (LT) Unit.
  9. Motor Speech Disorders Clinic.
  10. Professional Voice Care Unit.
  11. Structural Craniofacial Anomalies Unit.
  12. Vertigo Clinic.
  13. Voice Clinic.
- v. *Laboratories:* Spacious and well equipped laboratories with state-of-the-art equipment are available at the institute and these are attached to the main departments.

There are 20 special laboratories attached to different departments and these include:

1. Acoustic Testing Lab
2. Articulograph Lab.
3. Central Prosthetic Lab (CPL).
4. Electrical Lab.
5. Electronics and Instrumentation Lab.
6. Electrophysiology Lab.
7. Fluency Lab.
8. Forensic Speaker Identification Lab.
9. Hearing aid Lab.
10. Language Science Lab.
11. Neurophysiology Lab.
12. Phonology Lab.
13. Practical Lab for Audiology.
14. Prosody Lab.
15. Psychoacoustic Laboratory.
16. Rehabilitation Engineering lab.
17. Speech and Language Pathology Lab.
18. Speech Physiology Lab.
19. Speech Science Lab
20. Swallowing Lab.

- vi. *Botanical garden:* The institute has 30 acres in the two campus. Around 16.31% of this is occupied by buildings and roads. The rest of the area is being used for the development of lawns and gardens.
- vii. *Animal house:* Not applicable
- viii. *Specialized facilities and equipment for teaching, learning and research etc:* The library and information centre provides support for e-books and e-journals, internet access and various other software.

The Academic block is being extended. A new building for the academic activities called as “Knowledge Park” is under construction in the main campus of the institute and it is diagonally opposite to the existing Academic Block. The proposed building is 3 storied with a total plinth area of 3,183 Sq m and consists of 10 class rooms (4 rooms of 40 seats + 2 rooms of 84 seats in ground floor and 2 rooms of 40 seats + 2 rooms of 84 seats in First Floor with a Mini library, outdoor dining with a kitchenette), office rooms, staff rooms, library

room, lobbies at all the floors and a seminar hall of 400 members capacity in the second floor with lift arrangement. The building has one main entrance and a side entrance with 2 elevators and staircases and is disabled friendly with ramps and toilets meant for them. The classrooms are proposed to have Audio Visual facility and the seminar hall shall have acoustically designed wall paneling, false ceiling and carpet flooring.

b) *Extra –curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc.*

- The second campus of the institute (Panchavati campus) houses a sports complex, auditorium, gymnasium and amphitheatre. The institute provides facilities for the students to involve themselves in extra-curricular activities and sports in addition to pursuing their academic programmes through a well-established Gymkhana. In Gymkhana, students have established facilities for both indoor and outdoor games. Gymkhana also has facilities for Gym for the students to keep them physically fit by engaging in physical exercises. The students have representatives in Gymkhana.
- The activities of the NSS wing of the institute is coordinated by a faculty and various activities are undertaken throughout the year. The programmes include conduction of screening programmes in camps, blood donation, activities in old age homes, conducting public awareness programmes etc. The details are provided in **Appendix 27**.
- Every year, special lectures and talks are arranged through the Gymkhana on topics related to health and hygiene, alternate approaches such as yoga and ayurveda etc for the benefit of the students and staff. Gymkhana also arranges various cultural programmes; the salient amongst these being the ‘AIISH Aawaaz’ which is a inter college festival held every year with grandeur. The details of the activities of such activities conducted through the Gymkhana are given in **Appendix 28**.

4.1.3. *How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution/ campus and indicate the existing physical infrastructure and the future planned expansions if any).*

- a) The infrastructure facilities are being augmented periodically in order to meet the growing needs of the students. Sufficient funds are being allocated for the purpose by the Ministry of Health and Family Welfare, Govt. of India. At the Panchavati campus, the institute has provided a new Men's hostel comprising of 40 single bed and 19 triple bed rooms with a plinth area of 2,487 sq m having ground plus two stories. An international Guest house (named Ashoka) has 15 suites with ground plus two stories. This has helped to accommodate increased number of students in academic programmes. The amount spent for these two blocks is ₹. 5.14 crore.
- b) A new Audiology block is under construction and this is adjacent to the existing Department of Clinical Services. This added feature will help in accommodating the increased flux of clients for audiological evaluation in the recent years.
- c) The number of faculty recruited have increased consequent to the additional posts sanctioned in compliance with the orders by the Supreme Court of India for implementation of Oversight Committee recommendations with effect from the year 2009. Out of 59 posts sanctioned in total (for 27 Group A positions and 32 technical positions), 28 posts are permanent and 31 posts are on contract. In order to meet the need for accommodation of these faculty and other technical staff, a new quarters is being built in the main campus of the institute.
- d) A new building for staff quarters is under construction (Type 2 & Type 3) in the main campus. The building is 6 storied with a total plinth area of 350 Sq m for Type 2 Staff Quarters and 303.13 Sq m for Type 3 Staff Quarters with 24 number in each type.

- e) Each of the Type 2 quarters has a plinth area of 47.88 Sq m and Type 3 quarters has a plinth area of 58.29 Sq m. Each of the Type 2 quarters has 1 bedroom, living cum dining, kitchen and a balcony and the Type 3 quarters has 2 bedrooms, living cum dining, kitchen and a balcony. The building has a big sump, 2 lifts and staircases with fire fighting arrangements as per safety norms.
- f) The institute is in the process of getting recognized as “Centre of Excellence” and as a part of this, 5 research centres and 5 clinical centres and 5 other centres will be launched with all the infrastructural support.

The Research Centres include:

- Center for Speech and Language Sciences
- Center for Augmentative and Alternative Communication (AAC) and Sign Language
- Center for Hearing Sciences
- Center for Prevention of Communication Disorders Epidemiological Research, and Cognitive Behavioral Sciences In Communication Disorders
- Centre for INFORMATICS and Patents and Rehabilitation Engineering, Acoustics & Biomedical Engineering.

The clinical centres include:

- Center for Speech and Language Disorders in Children, Adults and Senior Citizens
- Center for Hearing Impairment in Children , Adults and Senior Citizens
- Center for Surgical Rehabilitation of Communication Disorders
- Center for Persons with Swallowing Disorders
- Center for Persons with Tinnitus and Vestibular Disorders.

The other centers include:

- Publication Wing
- Academic Section, Library and Information Centre
- Center for Public Education in Communication Disorders

- Museum for Speech, Language and Hearing
- Administration Section, Hostels and Guest House.

With the initiation of these centres, the students as well as faculty will benefit with respect to the opportunities for research, innovations into new areas of interest and there will be a boost to the academic curricula and training. A museum in speech and hearing is also under process and will soon be initiated. This would enable the students and staff to put in their creative ideas and contribute extensively in projecting the science of communication disorders. This will also add on to the job opportunities and options to interaction with these centres by the faculty and students.

As of now, all the available infrastructure is put into good use. The institute closely monitors the usage of the infrastructure facilities by the students as well as faculty with a view to ensure the adequacy of such facilities and also for upgrading and improving these facilities from time to time.

g) The table below gives an overview of the structures in the institute. As per CPWD total station survey details of Naimisham (main) campus the total area is 97, 207.142 Sq mt (10,46,327.956 Sq ft) i.e., 24 acre and 0.81 guntas. The total area of Panchavati campus is 21,833.00 Sq mt (2,35,008.45 Sq ft) i.e., 05 acre and 15.60 guntas. However, the plinth area is 16.31% and is as follows:

*AIISH Naimisham (Main) campus*

<i>Sl. No</i>	<i>Name of Building</i>	<i>No of Floors</i>	<i>Area occupied by ground floor in Sq mt</i>
1.	Kuteera	Ground	459.00
2.	Isha office & Bank of Baroda	Ground	227.00
3.	Special education with pre-school	Ground	1,590.00
4.	Dept. of Otorhinilaryngology	Ground	762.00
5.	Departmental canteen	Ground	247.00
6.	Diesel Generator room	Ground	90.00

7.	Guest house	Ground+ 1	510.00
8.	Old Administration Block	Ground+ 1	1,990.50
9	Staff Quarters	Ground+ 1	1,730.00
10.	Academic Block	Ground+ 1	1,069.00
11.	Old gents hostel	Ground+ 2	325.00
12	Ladies Hostel	Ground+ 2	1,655.00
13.	Clinical services	Ground+ 2	2,453.60
14.	New Administration Block	Ground+ 2	520.40
15.	Library & information science	Ground+ 3	966.40
16.	Departments of CREDM, POCD, Sp-Lang Sciences and Sp-Lang Pathology	Ground+ 3	780.00
17.	New Audiology Block		586.00
18.	ATM		9.30
19.	Security Booths		44.00
20.	Type 2 staff quarters	Ground+ 6	350.00
21.	Type 3 staff quarters	Ground+ 6	303.13
22..	Seminar hall & class rooms	Ground+ 2	1,045.71
	<i>Total</i>		<i>17,713.04</i>

*AIISH Panchavati campus*

1	New men's hostel & guest house	Ground+ 2	1049.20
2	Sports complex	Ground+ 1	882.00
3	Dharmashala	Ground	175.00
4	Amphi theatre	Ground	150.00
5	Generator room	Ground	90
	<i>Total</i>		<i>2346.20</i>

*Summary*

<i>Name of the Campus</i>	<i>Total area In square m</i>	<i>Plinth area In square m</i>
Naimisham Campus	97207.142	17,713.04
Panchavati Campus	21833.00	2,346.20
<i>Total</i>	<i>119040.142</i>	<i>20,059.24</i>



h) The Master Plan of the Institution/ campus indicating the existing physical infrastructure and the future planned expansions is shown in **Appendix 29**.

i) The amount spent on infrastructure in lakhs of rupees in the last four years is as follows:

Details	2008-09	2009-10	2010-11	2011-12
Building	28.37	77.24	46.05	732.77
Furniture & fixtures	75.14	57.53	92.77	31.62
Library books	29.89	25.64	41.59	91.59
Technical / Office / Garden equipment	545.61	374.62	432.51	387.38
Teaching aids	0.88	0.27	0.00	9.50
Hostel utensils	0.05	0.05	0.36	0.55
Digitization of library	-	8.41	-	-

4.1.4. *How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?*

The new buildings under construction are disabled friendly with disabled friendly toilets and wheelchair access. There is a special room for physically disabled person in the men's hostel.

Care is taken and ensured that the entire campus is disabled friendly. Modification in the infrastructure of the old buildings has been undertaken in the past few years to upgrade the old structures for access to persons with disabilities by way of providing elevators and ramps. Having been set up to cater to the requirement of differently abled population, the institute periodically evaluates the adequacy and usage of infrastructure facilities for differently abled students.

4.1.5. *Give details on the residential facility and various provisions available within them:*

a) *Hostel Facility – Accommodation available*

Ladies Hostel: the ladies hostel is located in the main campus of the institute. There are totally 140 rooms (triple sharing, double sharing and single).

Men's Hostel: the Men's hostel is located in the Panchavati campus of the institute. There are totally 58 rooms (18 triple rooms and 40 single rooms).

The number of inmates occupying the hostels in past five years is shown in the table below.

Year	Ladies Hostel	Men's Hostel
2007-08	149	58
2008-09	156	64
2009-10	173	74
2010-11	194	70
2011-12	208	80

*b) Recreational facilities, gymnasium, yoga center, etc.*

The Ladies and Gent's hostels have their own recreation rooms with TV, newspapers and periodicals. The Gymnasium is in the Panchavati campus where the Men's hostel is located. The ladies also use the same gymnasium beyond the college hours as it is placed only a kilometer away from the main campus where the Ladies hostel is located. As a part of the Gymkhana activity, guest lectures and short term classes in Yoga is held in the Gymkhana from time to time. Wherever possible, on important occasions, lectures on spiritual, environmental and science innovations are arranged for the benefit of the students.

Facilities of indoor (Carrom, Table Tennis, Badminton, Chess, Gymnasium) and outdoor games (Cricket, Volley Ball, Throw Ball) are available in the Gymkhana.

*c) Computer facility including access to internet in hostel.*

The Ladies and Men's hostels have been provided with internet facilities and computers.

*d) Facilities for medical emergencies.*

A General Physician appointed by the institute visits the institute twice in a week. The students avail this facility. Besides this, the General Physician cares for students in emergency. Apart from this, the ENT surgeon staying in the quarters attends to medical emergency.

e) *Library facility in the hostels*

All the electronic resources available with the Library and Information Centre can be accessed from the hostels through the Internet connected computers.

f) *Internet and Wi-Fi facility*

Both the hostel has Wi Fi connections and individual rooms are provided with telephones.

g) *Recreational facility-common room with audio-visual equipments*

The Ladies and Men's hostels have common rooms with TV, newspapers and periodicals.

h) *Available residential facility for the staff and occupancy. Constant supply of safe drinking water.*

Water supply is regular as the institute has a overhead water storage tank in the main campus with a capacity of 35,000 litres.

The details of residential facility are shown in the table below.

<i>Sl. No</i>	<i>Type of Quarters</i>	<i>Identity of the Quarters</i>	<i>Total number</i>	<i>Plinth Area In sq m</i>
1	A –Type quarters	A1 to A6	06	37.63
		A7 to A14	08	42.37
		A15	01	27.97
2	B - Type quarters	B1 to B4	04	60.03
		B5 to B12	08	35.78
3	C - Type quarters	C1 to C6	06	65.14
4	D - Type quarters	D1 to D6	06	127.50
5	E –Type quarters	E	01	255.01
6	New construction Type II & III Staff Quarters		48	4223.97

i) *Security*

A single post for Security Officer (permanent) is created in the institute. The security services are outsourced. But all the security personnel are under the control of the Security Officer of the institute. All the buildings in the main campus and the Panchavati campus of the institute are under vigilance round the clock.

4.1.6. *What are the provisions made available to students and staff in terms of health care on the campus and off the campus?*

A General Physician nominated by the institute visits the institute twice in a week. The students and staff avail this facility. Besides this, the General Physician takes care of students in emergency. The medical personnel in the department of ENT also cater to emergencies. There are more than 3 super specialty hospitals in the Mysore city which are placed within 4 to 5 kms from the institute where staff and students seek medical treatment. For the permanent staff, reimbursement of medical expenses is met as per the norms of Government.

4.1.7. *Give details of the Common Facilities available on the campus –spaces for special units like:*

*IQAC:* Separate space is not allotted. However, the Chairperson's Chamber is the office.

*Grievance Redressal Unit:* Separate space is not allotted. However, the Chairperson's Chamber is the office.

*Women's Cell:* This is called as Grievances cell for Sexual harassment of Women. Separate space is not allotted. However, the Chairperson's Chamber is the office.

*Counseling and Career Guidance:* Academic section takes care of this.

*Placement Unit:* One room is allocated in the Academic Section and a faculty is the in-charge.

*Health Centre:* Space is allocated within the Department of ENT.

*Canteen:* There is a canteen located in the main campus of the institute which runs throughout the day from 9.00 am to 5.30 pm. It includes 5 personnel with one Manager Cum Salesman, 2 cooks and 2 wash boys.

*Recreational spaces for staff and students:* This is provided at the Panchavati Campus through AIISH Gymkhana.

*Safe drinking water facility:* Water purifiers are available in all buildings and hostels.

*Auditorium, etc:* A seminar hall is housed in the existing academic building in the main campus. The Gymkhana building at the Panchavati campus also houses a Auditorium with 350 seating capacity. The 'Knowledge Park' under construction also houses a state of the art auditorium.

## **4.2 Library as a Learning Resource**

4.2.1. *Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?*

- a) There is a library advisory committee at the institute. The composition of the committee is as follows: A senior faculty is nominated as Chairperson and there are 5 members representing Group A and B and one member secretary (Group A – Library and Information Officer).
- b) The primary role of the committee is to formulate policies regarding the Library and Information Centre on matters pertaining to information sources and services.
- c) Based on the decisions of the committee, the institute's research reports have been digitized and made available on the library web portal with a simple search interface and the most frequently used print books have been procured in multiple copies. The details of print resources of the library have been made available online. In addition, steps have been taken to simplify the issue-return procedure of the library resources.

4.2.2 *Provide details of the following:*

*Total area of the library (in Sq. Mts.):* Total build up area of the library and information centre is 966.40 sq mts.

*Total seating capacity:* Approximately 200.

*Working hours (on working days, on holidays, before examination days, during examination days, during vacation) :*

Working hours: All services are available throughout the year from 8.30 am to 8.00 pm from Monday to Friday and from 9.00 am to 5.00 pm on Saturdays.

*Layout of the library:*

- *Individual reading carrels:* Fifty four
- *Lounge area for browsing and relaxed reading:* There are three lounge areas for browsing. There are 3 sections for reading, one in journal section, one in book section and one in new arrivals section. Besides this there are 5 more spaces (enclosures and lounges) which can be used for relaxed reading.
- *IT zone for accessing e-resources:* The lounge areas meant for browsing is used to access e-resources.

The layout and facilities available at the Library and information centre is shown below.

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<i>Ground Floor</i>	Bound Volume Section, Stack Book Section, Reprographic Section, Library and Information Officer's Cabin and Circulation Desk
<i>Mazanon</i>	Reference Section, New Arrival Section and Acquisition Section.
<i>First Floor</i>	In-House Publication Section, Server Room, Department of Material Development, Digital Library Workstation and Multimedia Workstation
<i>Second Floor</i>	Internet Browsing Hub

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The following is the list of services available in the Library and information centre of the institute:

- Lending services.
- Display of new arrivals.
- Current awareness service.
- Research support and assistance.
- Indexing and cataloguing services
- Rendering effective reference services.
- Orientation and guidance for library users.
- Reprographic services.
- Digital library.
- OPAC (On-line Public Access Catalogue)
- SDI (Selective Dissemination of Information).
- Internet and CD-ROM based services.
- Printer and Scanner based services.

In the last two years, in the infrastructure of the library was developed to include:

- Complete automation of library activities,
- Installation of more computers with internet facility,
- Expansion of reading facility,
- Digitization of the in-house research reports of the institute using the software 'Equest' and making them freely available on the library and information centre web portal at [www.aiish.ac.in](http://www.aiish.ac.in). So far, nearly one lakh pages of reports which include Ph.D theses, departmental projects, independent projects and post graduate dissertations have been digitized and made available.

4.2.3 *How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.*

The library procures important and current information resources by

- a) Receiving suggestions from the faculty
- b) Closely watching publishers in field of Communication Disorders for new information products by frequently visiting their website, reading catalogues and keeping in touch with the representatives of publishers and book sellers.

The amount spent on procuring new books, journals and e-resources during the last four years is shown in the table.

*Rupees in lakh)*

<i>Library holdings</i>	<i>2008-09</i>		<i>2009-10</i>		<i>2010-11</i>		<i>2011-12</i>	
	<i>No.</i>	<i>Total Cost</i>	<i>No.</i>	<i>Total Cost</i>	<i>No.</i>	<i>Total Cost</i>	<i>No.</i>	<i>Total Cost</i>
Text books								
Reference Books	529	11.17	595	8.30	681	12.16	793	31.60
Journals/ Periodicals	64	18.72	70	19.00	69	29.28	106	54.64
e-resources	-	-	-	-	138	7.69	38	2.56
Any other (specify)	-	-	-	-	-	-	-	-

4.2.4 *Provide details on the ICT and other tools deployed to provide maximum access to the library collection?*

*OPAC:* Available. The licensed softwares used in the library are:

- a) 'Book Magic': an Integrated Library Management System, designed by M/s Meshi Logic.
- b) 'Equest': Digital Library Software developed by Total IT Solutions, Pune.

*Electronic Resource Management package for e-journals:* There are 176 e-books and 97 e-journals subscribed in the library. The access to these is managed through 'Book Magic', an Integrated Library Management System, and 'Equest', a Digital Library Software.

*Federated searching tools to search articles in multiple databases:*

The following database is used:

- a) **ComDisDome:** This database is an indexing and abstracting tool covering the communications disorders literature, with focus on Speech-Language Pathology and Audiology. It quickly identifies and connects to reliable information from multiple sources, including journal articles and books, along with access to profiles of researchers working in this area.
- b) **Linguistics and Language Behavior Abstracts (LLBA) :** This database abstracts and indexes the international literature in linguistics and related disciplines in the language sciences. The database covers all aspects of the study of language including phonetics, phonology, morphology, syntax and semantics. Documents indexed include journal articles, book reviews, books, book chapters, dissertations and working papers.
- c) **REHABDATA:** This is produced by the National Rehabilitation Information Center, which is the leading literature database on disability and rehabilitation. The database describes over 70,000 documents covering physical, mental, and psychiatric disabilities, independent living, vocational rehabilitation, special education, assistive technology, law, employment, and other issues as they relate to people with disabilities. The collection spans from 1956 to the present.



*Library Website:*

The information on library and information centre can be accessed through the institute website [www.aiishmys.in](http://www.aiishmys.in). There is a specific portal for the library of the institute for access of digitalized information on all aspects of the library services and this can be accessed from [www.aiish.ac.in](http://www.aiish.ac.in).

*In-house/remote access to e-publications:*

The institute is a member of Electronic Resources in Medicine (ERMED) Consortium, an initiative by the Director General of health Services (DGHS), Govt. of India, to develop nationwide electronic information resources in the field of medicine for delivering effective healthcare for all. Through ERMED, more than 1600 electronic journals in medicine and health can be accessed.

*Library automation:*

The library is equipped with 44 computers with Internet access. The Internet bandwidth is 16 mbps. In addition, there is reprographic facility, online public access catalogue, traditional print catalogue, and digital library.

*Total number of computers for public access:*

The 44 computers in the library is accessible by registered members of the library which includes faculty, staff and students of the institute, members from outside which includes, alumni of AIISH, professionals from allied field etc.

*Total numbers of printers for public access:*

There are no printers within the library for public access. However, printing and photocopying facilities are available within the main campus of the institute and this is very close to the library building. The printing, binding and photocopying facilities are available on payment for interested students, staff and faculty etc in this outlet which is run by an outsourced agency.

*Internet band width/ speed*     2mbps     10 mbps     1 gb (GB):

The internet bandwidth is 16 mbps

*Institutional Repository:*

Through the digital portal of the library, the following documents are accessed:

- a) Departmental Research Projects
- b) Dissertations of Post Graduate Students
- c) Independent projects of the students
- d) Ph.D thesis.

Approximately 1 lakh pages of digital reports are available on date.

*Content management system for e-learning:*

Through ERMED, more than 1600 electronic journals in medicine and health can be accessed.

*Participation in Resource sharing networks/consortia (like Inflibnet):*

The institute is a member of Electronic Resources in Medicine (ERMED) Consortium, an initiative by the Director General of health Services (DGHS), Govt. of India, to develop nationwide electronic information resources in the field of medicine for delivering effective healthcare for all.

'National Library and Information Services Infrastructure for Scholarly Content (N-LIST)' promoted by the UGC through INFLIBNET agency serves as a good electronic resource for students, research fellows and faculty of the institute and each of them are provided with a user name and password. Electronic review in medical domain (ERMED) that is mediated by the National Medical Library provided by the Ministry of Health, Govt. of India serves as a good access mode for more than 1000 e journals in medical and allied professions. Using the intranet link, the faculty can access more than 176 e-books. There is currently an attempt made to provide E-PROXY facility to the faculty so that they can access the resources that are available and centralized in the library at their homes or anywhere they are placed once they login with the user name and password. Faculty have been provided access to a software to check for plagiarism in the documents submitted by students, peers and others.

4.2.5 *Provide details on the following items:*

*Average number of walk-ins:*

150 users per day.

*Average number of books issued/returned:*

50 books per day.

*Ratio of library books to students enrolled:*

46:1

*Average number of books added during last three years:*

689.

*Average number of login to OPAC (OPAC):*

50 per day.

*Average number of login to e-resources:*

250 per day.

*Average number of e-resources downloaded/printed:*

500 per day.

*Number of information literacy trainings organized:*

One per year.

*Details of “weeding out” of books and other materials:*

No book has been weeded out till date.

4.2.6 *Give details of the specialized services provided by the library.*

*Manuscripts:*

No.

*Reference:*

Yes.

*Reprography:*

Yes.

*ILL (Inter Library Loan Service):*

No.

*Information deployment and notification (Information Deployment and Notification):*

Yes.

*Download:*

Yes.

*Printing:*

Yes.

*Reading list/ Bibliography compilation:*

Yes.

*In-house/remote access to e-resources:*

Yes.

*User Orientation and awareness:*

Yes.

*Assistance in searching Databases:*

Yes.

*INFLIBNET/IUC facilities:*

Yes (N-LIST).

4.2.7 *Enumerate on the support provided by the Library staff to the students and teachers of the college.*

The staff members help the user community in identifying specific resources, make them aware of new resources and impart skill in information searching.

4.2.8 *What are the special facilities offered by the library to the visually/physically challenged persons? Give details.*

Wheel chair, ramp at the entrance and elevator facilities are available. Audio CDs are available for some of the specialties. PDF documents have a text to speech converter which can be accessed by the visually challenged.

4.2.9 *Does the library get the feedback from its users? If yes, how is it analysed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analysed and used for further improvement of the library services?)*

Yes. The feedbacks on information sources and services are being accepted directly from the users and through the library web portal. These are consolidated and presented before the library committee and necessary steps are taken.

### **4.3 IT Infrastructure**

4.3.1. *Give details on the computing facility available (hardware and software) at the institution.*

*Number of computers with Configuration (provide actual number with exact configuration of each available system):*

Approximately 300 numbers all having configuration Windows XP and above.

*Computer-student ratio:*

1:2

*Stand alone facility:*

All computers are stand alone type

*LAN facility:*

All computers are connected to the LAN with 1 Gbps backbone.

*Licensed software:*

Operating systems, word processing softwares, statistical softwares and antivirus softwares are licensed. Apart from this, technical license and softwares are available.

*Number of nodes/ computers with Internet facility:*

All 284 computers have internet facility.

*Any other:*

Effort is made to procure software check and the same will be used to check plagiarism for all research documents prepared by students, staff and faculty.

4.3.2. *Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?*

Faculty are provided with computer and internet facility. Professors and HOD's are reimbursed for internet facilities. For students, a common browsing centre is available for use, which has 50 computers with internet facility. Wi Fi network connectivity is available in both Ladies and Men's hostels.

4.3.3. *What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?*

Sequential upgradation plans are included every year in the plan funds for 12th Five year plan.

The activities have been planned in such a way that, the IT infrastructure and associated facilities are always at par with the state-of-the-art technology. Upgradation of the LAN to 1 Gpbs has been completed in 3 phases spread across 2009-10, 2010-11 & 2011-12. Upgradation of server was done in 2012-13.

4.3.4. *Provide details on the provision made in the annual budget for procurement, upgradation, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years)*

	<i>Rupees in lakhs</i>
2008-09	17.00
2009-10	22.00
2010-11	27.30
2011-12	28.09

4.3.5. *How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?*

The institute provides digital library facility for all staff and students. All the institute repositories including project reports, dissertations and Ph.D. thesis are available in digital format in the digital library. Moreover, the software tools required for teaching and learning are also available on the LAN.

- 4.3.6. *Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching - learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.*

The institute started a Diploma programme in Hearing Language and Speech in the year 2007 through virtual class rooms equipped with ICT, connecting the expertise of AIISH, Mysore with 11 remote centres all over the country. With facility for live interaction with the teacher from any part of the country, the student has been placed at the centre of teaching learning process. Digital library is also made available to all these centres. When need arises, Ph.D. viva and interview is conducted through video, webinars etc. Conferences are also held through videoconferencing system. Meeting with alumnus and discussion is conducted through the videoconferencing system. Tele interview is also held when there is a need. In the department of CREDM, tele assessment and rehabilitation of persons with communication disorders is carried out in 10 study centres of the institute across the country.

Details of computerized hardware and software available in the institute as ICT resources:

- Hardware:  
There are 3 Centralized servers
- Software:  
Proxy Server, DHCP Server, DNS Server, Mail Server, Computerized Digital Library Portal, Antivirus Server, Web Applications, OPAC.
- Total number of computers:  
Approximately 300.
- LAN facilities and its configuration:  
Centralized LAN facility with 1Gbps bandwidth.
- Licensed software:  
All computers have original OS and 300 user license Microsoft office 2007, Licensed tally ver12, Adobe package, SPSS server edition, Corel draw, Pagemaker, Dr speech, Vagmi etc.

- Central computing facility and its use by staff and students:  
The staff and students can share the information through network. Also staff and student can access network resources.
- Faculty facilitation to prepare computer aided teaching/learning materials:  
All the classrooms have been provided with computer facilities and the computer system is connected to multimedia projectors and all computers have internet accessibility.
- Website:  
The website is updated whenever new information to be added regarding National Symposium, seminars, workshops, tender notification, recruitments and as and when required.
- Institutions plan to upgrade its computer systems and the provision made in the annual budget for update, deployment and maintenance of the computers in the institution:  
Systems are purchased with 3 years or 5 years warranty and upgraded the same once the warranty period expired if required
- Maintenance of computers and their accessories:  
These are maintained by technical team of the institute.

4.3.7. *Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?*

No

#### **4.4 Maintenance of Campus Facilities**

4.4.1. *How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?*



The institute receives grant from the Ministry of Health and Family Welfare under Plan Grant-in-Aid General, Grant in-aid Capital, Non-plan grant-in-aid general. Hence, no specific allocation of budget is made against each head. However, expenditure on the following as per the records of the accounts section for the year 2011-12 is furnished below.

*Rupees in lakhs*

Sl. No.	Details	Non plan grant in aid	Plan grant-in-aid	Total
1.	Maintenance of building –	5.06	3.41	8.47
	Civil	2.96	3.38	6.34
	Electrical			
2.	Housekeeping	37.16	-	37.16
3.	Security Services	29.97	-	29.97
4.	Maintenance of Lab	-	9.99	9.99
5.	Maintenance of Technical equipment & electrical equipment	13.47	34.69	48.13
6.	Maintenance of Vehicle	2.23	-	2.23

4.4.2. *What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?*

Caretaking & Housekeeping supervisor of the institute:

There is a post titled ‘Caretaker’ in Group C category and this personnel is responsible for overseeing the cleanliness and minor repairs (sanitation, carpentry etc) required on a day to day basis. This personnel along with the Housekeeping Supervisor (hired on contract through outsource) also supervise the work of housekeeping staff. The housekeeping and Garden maintenance is outsourced.

Maintenance of equipments:

The Department of Electronics in the institute maintains and upkeeps the infrastructure facilities and equipment of the institution and the details are as follows:

- a) Management of information systems including computers: All the standalone and dedicated computers, network systems connecting these computers are taken care of by the department of Electronics with the help of Electronic Engineers, System Engineers and Junior Technical officers.
- b) Management of fittings and fixtures: All the electrical and Electronic equipment fitted in different positions in the institute is looked after by the team of Electrical maintenance staff consisting of electricians and engineers.
- c) Annual maintenance contract for biomedical equipment, computers and other gadgets: Special and dedicated Biomedical equipment and equipment which require spares that are not available in the market are maintained by awarding annual maintenance contract to the respective manufacturers/dealers.
- d) In-house equipment maintenance: In-house equipment are maintained by the staff of the Electronics department in the institute.
- e) Repairs: The department of Electronics has a dedicated Hearing aid repair section.
- f) Workshops: The department of Electronics holds workshops frequently to attend to repairs of hearing aids, electrical repairs, repairs of computers and other general needs of the persons with communication disorders.

Civil maintenance organization:

The institute has an engineering section comprising of an Assistant Executive Engineer on deputation basis, regular staff occupying the positions of Assistant Engineer, Junior Engineer, Assistant Horticulture Officer and Care Taker attend to and carry out the minor new construction works and repair / maintenance of the structures at the institute.

4.4.3. *How and with what frequency does the institute take up calibration and other precision measures for the equipment/instruments?*

- a) The equipment used for evaluation of hearing in the Department of Audiology are subjected to biological calibration as per prescribed norms before their use on a day to day basis. Objective calibration of audiological equipment and equipment used for noise measurement is carried out as

and when the need arises and on an average such calibration is carried out not less than 6 months/one year. Some of the equipment used to measure different parameters of speech in the Department of Speech Language Sciences, Speech Language Pathology and Department of Clinical Services are calibrated as per the prescribed norms of the manufacturer. For example, the Articulograph AG 500 equipment in the department of Speech-Language Pathology is calibrated before obtaining the data from every participant.

- b) Besides the calibration of the audiological equipment in the institute, the Department of Electronics also undertakes calibration of equipment of other centres and institute based on request and on payment.
- c) All hearing aids that are issued to the clients from the institute are subjected to quality check as per the norms prescribed by ANSI / IEC standards.

4.4.4. *What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?*

The power generation by DG Set and distribution in the campus is taken care of by the Department of Electronics in the institute with the help of Electrical Maintenance team consisting of electricians. The elevators operating in different buildings of the institution are maintained by awarding the AMC to the concerned manufacturer of the elevators. AMC also exist other necessary equipment.

*Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include.*

Electrophysiological measures for hearing aids are carried out in the department of Electronics. Acoustic treatment for audiological test rooms, recording rooms, psychoacoustic laboratory in the department of Audiology and two Neuroscan rooms one each located in the Department of Audiology and Department of Speech-Language Sciences.