

# **PWD AUDIT (2016)**

## **Audit of Persons with Disabilities in University of Kerala**



**Internal Quality Assurance Cell (IQAC)**  
**University of Kerala**  
**2016**

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**University of Kerala**



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IQAC of University of Kerala is engaged in documenting various facilities and systems of the University that helps the stake holders of the University to understand different facets of the University system in contrast to local & global peers. This documentation is one of them.

*Compiled by the IQAC, University of Kerala, 2016*

## **Preface**

This booklet compiles the documentation of current status of the persons with disabilities in the University of Kerala. The intention is to give a comprehensive data and relevant information such as extracts from the recent Persons with Disabilities Act 2016, Schemes of Ministry of Social Justice and Empowerment for implementing the Persons with Disabilities Act and other such matters. It is hoped that the compilation will help the University community to gauge the situation and needs of persons with disability. It is also hoped that the authorities will be assisted with information to take rational decisions in empowering the PWD students and staff.

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## **Extracts of IQAC Minutes related to Persons with Disabilities**

### **Q3.11.03: Disabled Support Centre: (11<sup>th</sup> IQAC Meeting held on 18-07-2016)**

The University of Kerala has now implemented ramps to enable disabled people to have easy access to Departments and libraries. A lift is available in the Main building and a lift is being established in the Kerala University library. However the Minutes of 11th IQAC Meeting support for the disabled students is far from satisfactory and needs to be expanded. Therefore, the following suggestions are put forward:

1. To establish a Disabled Support Centre in a minimal way to start with.
2. To provide two wheel chairs and one scooter suiting the disabled, to be issued to departments on request. These may be kept under the custody of the Campus Administration/Engineering Unit and circulars may be issued to all departments and University Brochure may also include the information.
3. To enable visually challenged students, a special lab may be set up. The following facilities may be arranged in the lab. The facility may be housed in the CSS Office/Sophisticated Instrumentation Centre.
  - i. A Personal computer/Digital notebook which can be used to read out text interactively. The “Daisy Notebook” is considered an internationally accepted facility for this. At least one note may be provided.
  - ii. Basic literature about the University may be printed in Braille and kept in the lab.
  - iii. On request of visually challenged students, all departments may be instructed to provide core reading material in Braille.

#### **Decision:**

IQAC discussed the matter in detail and resolved as follows: (a) 1 wheel chair/block and one 3-wheeled scooter may be purchased and made available to PWD students. The J.R. Administration shall be the custodian of the scooter. (b) Two daisy note books may be purchased (c) Basic literature on the University may be produced in Braille and kept in library. (d) IQAC members may visit the PWD students and gather their requirements.

### **Q3.12.12: Problems of Persons with Disability in University of Kerala: (12<sup>th</sup> IQAC Meeting held on 22-10-2016)**

IQAC has compiled the data regarding needs of 36 Persons with Disability (28 students and 8 staffs) and is appended. IQAC may consider their needs and advice action.

#### **Decision:**

IQAC commended the activity. It was also reported in the meeting that request made by one PWD student to extend the University bus to Karamana has already been sanctioned by the Vice-Chancellor. It was also recommended that steps may be taken to provide ramps in University hostels. Bathroom for PWD be provided in all buildings.

### **Item No.Q3.13.12: Enhancing extension/outreach activities:**

In view of the remarks made by the Vice-chancellor during the last IQAC meeting, regarding the need to enhance extension activities, the following proposal is placed before IQAC for consideration.

1. A University Level Co-ordinator (ULC) for extension activities may be nominated by the Vice-Chancellor.
1. The draft extension policy under consideration of the University may be circulated to all Depts. and active Centres/Institutes (**Appendix A3**).
2. ULC for Extension Activities may be asked to draw up a plan for extension activities for 2017.
3. A meeting of HODs may be convened and the extension activity plan may be presented before them.

The following activities may be considered by each Dept/Centre/Institute.

- Programs for school children (Karyavattom campus may consider engaging the Govt. UPS, Karyavattom) conducted in the respective schools.
- Open house, seminar, exhibition aimed at school children held in the Depts/Centres.
- Competition aimed at fostering scientific temper, communal harmony, mother tongue, innovation, soft skills etc for school children.
- Campaigns aimed at addressing local issues (best implemented in association with local self-government).
- Publishing of leaflets and booklets towards creating awareness on issues related to the subject of the Dept/Centre.
- Putting up stalls in exhibitions organized by other agencies
- Organizing a common one-day programme in University campus, organized jointly by all Depts, with 10 minutes engagement by each Dept.
- In observation of Water day, Statistics Day, Environment Day, Earth Day etc. Departments may include invitation to school children.

The ULC may propose more diverse activities. A budget of **Rs. 2 Lakhs** may be provided for ULC.

**Decision:** It was resolved that a University level co-ordinator and a University level committee for extension/outreach may be nominated<sup>1</sup> by the Vice-Chancellor. The U.L.C may be nominated after inviting expression of interest from Dept. faculty. Till the ULC is nominated, Director IQAC shall hold charge of the ULC and initiate activities.

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<sup>1</sup> ULC, Dr. A. Bijukumar (Aquatic Biology & Fisheries), Dr. C. R. Rajagopal (Malayalam), Dr. E. Shaji (Geology), Dr. S. Raju (Psychology), Dr. Sainaba M (ORI), Dr. Rajesh. S. V. (Archeology), Dr. R. Rajalekshmi (Botany), Dr. Aji. S (Computer Science)

## List of Persons with Disability in University of Kerala

### A. STUDENTS

Sl. No	Details of PWD	Remarks/Requests
1.	██████████ (Mental Retardation) : Student, UIT, Yeroor	Request conveyance Allowance
2.	██████████ (B/L Sensory Neural Hearing loss: 75%), Student, BCA (3 <sup>rd</sup> Semester), UIT	One pair of Hearing aid
3.	██████████ (40% locomotors disability), Student, B. Com with Computer Application, UIT, Mannar	NIL
4.	██████████ (Post traumatic Quadri paresis: 80%), Student, I year B.Com (CA) , UIT, Pirappancode	1. Construction of Ramp with Hand rails 2. Proper lighting & Video and Audio facility in class rooms
5.	██████████ (Nemalitic Myopathy (Deformity in both UL & LL): 80%), Student, I year BBA, UIT, Pirappancode	1. Construction of Ramp with Hand rails 2. Proper lighting & Video and Audio facility in class rooms
6.	██████████ (PWD: 60%), Student, B. Com (CA), UIT, Mukhathala, Kollam	Scribe, Extra time and Grace Mark
7.	██████████ (Physically disabled in leg), Student, B. Com, Kollam	
8.	██████████ (Congenital monoplegia (paralysis) of right upper limb): Student, B.Sc. Computer Science, UIT, Kuravankonam	Writes with left hand due to the mentioned problem in right hand
9.	██████████ (Permanent Disability (Right side of the body is weak, so writing with left hand)): Student, B. Com (with Computer Application), UIT	Provide Extra time and Grace Mark
10.	██████████ (Epilepsy (slow in reading, writing, expressing etc. and learning disability)): Student, B. Com (CA), UIT	Extra time for writing Examination and Grace marks
11.	██████████ (Permanent: loco motor): Student, B.Com (with Computer Application) , UIT, Karuvatta	Bathroom with European system in the College
12.	██████████ (Physically handicapped): Student, BCA, UIT	Time extension (30 min.) for University Examinations




13.	██████████ (C. M. Phocomelia Lt.): Student, MBA, UIM, Alappuzha	NIL
14.	██████████ (Lower Limb-post polio disability-palsy: 40% disability): Student, MBA, UIM, Varkala	NIL
15.	██████████ (50% moderate permanent-cerebral palsy sequelae orthopaedics): Student, MBA, ICM, Poojappura	NIL
16.	██████████ (40% Moderate permanent disability orthopaedics): Student, MBA, ICM, Poojappura	NIL
17.	██████████ (Unable to speak & hear): Student, B. Com-Semester I, UIT, Mannady	Hearing aid
18.	██████████ (50% permanent loco motor disability-Post burne contracture of both hands with loss of function and contracture of face); Student, M. Phil, Centre for Nano science & Nanotechnology	NIL
19.	██████████ (Physically Challenged) Student, M.Sc. (computational Biology), Dept. of Computational Biology & Bioinformatics	1. Lift for the second floor 2. Canteen for North Campus 3. Automatic Vehicle
20.	██████████ (Physically Challenged); Research Scholar, Dept. of Computational Biology & Bioinformatics	Hydraulic lift
21.	██████████ (Orthopaedics handicapped by CONG L.S. AGENESIS TALIPES CQUNO VARUS BIGHT FOOT SCOLIOSIS (40%)), Student, MSW (3 <sup>rd</sup> sem.), Dept. of Sociology	NIL
22.	██████████ (Hemiplegia cerebral Palsy): Student, M. Sc, Dept. of Biochemistry	Extend Bus facility to Karamana
23.	██████████ (Loco motor: 45%); MA, Dept. of Malayalam	1. Provide extra time for writing examination 2. Provide Study Materials
24.	██████████ (Orthopaedic (complete brachial plexus injury, right arm)), Student, M. Com, Dep. of Commerce	Academic support from teachers, transportation facility, hostel facilities, Library etc.
25.	██████████ (Orthopedically Handicapped Disability: 75%) Ph. D Scholar, Dept. of Linguistics	1. COMPUTER or LAPTOP to access the materials for research 2. RAMP and Lift to access the Library/Shift

		the Library to the ground floor for easy access
26.	██████████ (Orthopedically handicapped) Student, M. Tech, Dept. of Optoelectronics	Lift Facility
27.	██████████ (Orthopedically handicapped (Right Leg): 50%) Student, M. Ed, Dept. of Education	NIL
28.	██████████ (Ophthalmic Handicapped) Student, MA, Institute of English	A Computer System with advanced, customized software for ophthalmic handicapped students, Audio Books etc.

### B. STAFF

1.	██████████ (Orthopedically handicapped) Library Assistant, UIT, Yeroor	Leave for Medical Treatment
2.	██████████ (Paralysis (partial) in left hand and left leg) Peon, UIT, Alappuzha	-
3.	██████████ (Permanent disability in Right leg: 45%) Assistant Librarian, KUCTE, Anchal	Need support for walking
4.	██████████ (Orthopedically handicapped) Technical Officer (Gr. I), Dept. of Physics	-
5.	██████████ (Locomotive Disabilities) DEO, School of Distance Education	Avoidance of climbing stairs and suitable furniture to compensate problem with height.
6.	██████████ (Orthopedically Handicapped: 40%) Lab Assistant/Tradesman, UCK	-
7.	██████████ (Loco motor Disability: 50%, Orthopedically Handicapped), Lab Assistant (Electronics), UCK	-
8.	██████████ (loco motor disability), Office Superintendent, Dept. of Law	Provide low floor footstep in University Bus

## Suggestions for betterment of facility from student with disability

	<p>We all know that disabled people have to face so many problems during daily life, even though the university structure is very familiar to these people but still it needed some advancement says There is a dire need of the automated electric wheel chair in every department which help the ones to roam around in department tension free. It would be great if lift facility is made available, when the departments have more than one floor. A fee concession should be made in semester fees. There is a need of an over bridge that connects the Karyavattom north and south campuses.</p>
<p>Mr. Aneesh M. S. M.Sc. Student. Dept. Of Computational Biology &amp; Bioinformatics, University of Kerala</p>	

**Appendix – I**  
**Feedback form for Persons with Disability (PWD) Students/Staff**



**University of Kerala**

*Internal Quality Assurance Cell (IQAC)*

**Feedback form for Persons with Disability (PWD) Students/Staff**

1.	Name:
2.	Student Status or staff designation:
3.	Department:
4.	Contact No:
5.	Email id:
6.	Kind of Disability:
7.	Requirements:
8.	Feedback about University's support for P.W.D:

**Dated Signature**

## **Appendix – II**

### **“The Right of Persons with Disabilities Bill 2016”**

#### **(Passed in December 2016)**

"The Rights of Persons with Disabilities Bill - 2016" replaces the existing the Persons with Disabilities(equal opportunities, protection of rights and full participation) Act, 1995, which was enacted 21 years back. Disability has been defined based on an evolving and dynamic concept. The bill aims at

- Respect for inherent dignity, individual autonomy including the freedom to make one’s own choices, and independence of persons.
- Non-discrimination.
- Full and effective participation and inclusion in society.
- Respect for difference and acceptance of persons with disabilities as part of human diversity and humanity.
- Equality of opportunity.
- Accessibility.
- Equality between men and women.
- Respect for the evolving capacities of children with disabilities and respect for the right of children with disabilities to preserve their identities.

The types of disabilities have been increased from existing 7 to 21 compared to PWD act 1995 and the Central Government will have the power to add more types of disabilities. The 21 disabilities are given below:-

- **Blindness**
- **Low-vision**
- **Leprosy Cured persons**
- **Hearing Impairment (deaf and hard of hearing)**
- **Locomotor Disability**
- **Dwarfism**
- **Intellectual Disability**
- **Mental Illness**
- **Autism Spectrum Disorder**
- **Cerebral Palsy**
- **Muscular Dystrophy**
- **Chronic Neurological conditions**
- **Specific Learning Disabilities**
- **Multiple Sclerosis**
- **Speech and Language disability**
- **Thalassemia**
- **Hemophilia**
- **Sickle Cell disease**
- **Multiple Disabilities including deaf blindness**

- **Acid Attack victim**
- **Parkinson's disease**

Some related definitions:-

- a) "Blindness" refers to a condition where a person suffers from any of the following conditions, namely :-
  - Total absence of sight. or
  - Visual acuity not exceeding 6/60 or 20/200 (Snellen) in the better eye with correcting lenses; or
  - Limitation of the field of vision subtending an angle of 20 degree or worse;
- b) "Cerebral palsy" means a group of non-progressive conditions of a person characterized by abnormal motor control posture resulting from brain insult or injuries occurring in the pre-natal, peri-natal or infant period of development;
- c) "Hearing impairment" means loss of sixty decibels or more in the better year in the conversational range of frequencies;
- d) "Locomotor disability" means disability of the bones, joints muscles leading to substantial restriction of the movement of the limbs or any form of cerebral palsy.
- e) "Mental illness" means any mental disorder other than mental retardation;
- f) "Mental retardation" means a condition of arrested or incomplete development of mind of a person which is specially characterized by sub normality of intelligence;
- g) "Person with disability" means a person suffering from not less than forty per cent. of any disability as certified by a medical authority;
- h) "Person with low vision" means a person with impairment of visual functioning even after treatment or standard refractive correction but who uses or is potentially capable of using vision for the planning or execution of a task with appropriate assistive device;
- i) "Rehabilitation" refers to a process aimed at enabling persons with disabilities to reach and maintain their optimal physical, sensory, intellectual, psychiatric or social functional levels;

### **STATE COORDINATION COMMITTEE**

Every State Government shall, by notification, constitute a body to be known as the State Coordination Committee to exercise the powers conferred on, and to perform the function assigned to it, under this Act, chaired by the Minister in-charge of the Department of Social Welfare in the State Government, Chairperson or Vice-Chairperson, ex officio;

Subject to the provisions of this Act, the function of the State Coordination Committee shall be to serve as the state focal point on disability matters and facilitate the

continuous evolution of a comprehensive policy towards solving the problems faced by persons with disabilities.

The State Government shall constitute a committee to be known as the **State Executive Committee** to perform the functions assigned to it under this Act, chaired by the Secretary, Department of Social Welfare, Chairperson, ex officio.

Governments shall by notification prepare a comprehensive education scheme which shall make Provision for-

- (a) Transport facilities to the children with disabilities or in the alternative financial incentives to parents or guardians to enable their children with disabilities to attend schools.
- (b) The removal of architectural barriers from schools, colleges or other institution, imparting vocational and professional training;
- (c) The supply of books, uniforms and other materials to children with disabilities attending school.
- (d) The grant of scholarship to students with disabilities..
- (e) Setting up of appropriate fora for the redressal of grievances of parent, regarding the placement of their children with disabilities;
- (f) Suitable modification in the examination system to eliminate purely mathematical questions for the benefit of blind students and students with low vision;
- (g) Restructuring of curriculum for the benefit of children with disabilities;
- (h) Restructuring the curriculum for benefit of students with hearing impairment to facilitate them to take only one language as part of their curriculum.

All educational institutions shall provide or cause to be provided amanuensis<sup>2</sup> to blind students and students with low vision.

## **EMPLOYMENT**

Appropriate Governments shall

- (a) Identify posts, in the establishments, which can be reserved for the persons with disability;
- (b) At periodical intervals not exceeding three years, review the list of posts identified and up-date the list taking into consideration the developments in technology.

Government shall appoint in every establishment such percentage of vacancies not less than three per cent for persons or class of persons with disability of which one per cent. Each shall be reserved for persons suffering from-

1. Blindness or low vision;

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<sup>2</sup> A literary or artistic assistant, in particular one who takes dictation or copies manuscripts

2. Bearing impairment;
3. Loco motor disability or cerebral palsy, in the posts identified for each disability;

Governments and local authorities shall by notification formulate schemes for ensuring employment of persons with disabilities, and such schemes may provide for-

- (a) The training and welfare of persons with disabilities;
- (b) The relaxation of upper age limit;
- (c) Regulating the employment;
- (d) Health and safety measures and creation of a non-handicapping environment in places where persons with disabilities are employed;
- (e) The manner in which and the person by whom the cost of operating the schemes is to be defrayed; and
- (f) Constituting the authority responsible for the administration of the scheme.

All Government educational institutions and other educational institutions receiving aid from the Government shall reserve not less than three per cent seat for persons with disabilities. The appropriate Governments and local authorities shall reserve not less than three per cent. in all poverty alleviation schemes for the benefit of persons with disabilities. The appropriate Governments and the local authorities shall, within the limits of their economic capacity and development, provide incentives to employers both in public and private sectors to ensure that at least five per cent. of their work force is composed of persons with disabilities.

### **NON-DISCRIMINATION**

Establishments in the transport sector shall, within the limits of their economic capacity and development for the benefit of persons with disabilities, take special measures to-

- (a) Adapt rail compartments, buses. Vessels and aircrafts in such a way as to permit easy access to such persons;
- (b) Adapt toilets in rail compartments, vessels, aircrafts and waiting rooms in such a way as to permit the wheel chair users to use them conveniently.

Governments and the local authorities shall, within the limits of their economic capacity and development. Provide for-

- (a) Installation of auditory signals at red lights in the public roads for the benefit of persons with visually handicap;
- (b) Causing curb cuts and slopes to be made in pavements for the easy access of wheel chair users;
- (c) Engraving on the surface of the zebra crossing for the blind or for persons with low vision;
- (d) Engraving on the edges of railway platforms for the blind or for persons with low vision;
- (e) Devising appropriate symbols of disability;



(f) Warning signals at appropriate places.

Governments and the local authorities shall, within the limits of their economic capacity and development, provide for-

(a) Ramps in public buildings;

(b) Braille symbols and auditory signals in elevators or lifts;

(c) Braille symbols and auditory signals in elevators or lifts;

(d) Ramps in hospitals, primary health centers and other medical care and rehabilitation institutions.

## **RESEARCH AND MANPOWER DEVELOPMENT**

Governments and local authorities shall promote and sponsor research, inter alia, in the following areas-

(a) Prevention of disability;

(b) Rehabilitation including community based rehabilitation;

(c) Development of assistive devices including their psychosocial aspects;

(d) Job identification;

(e) On site modifications in offices and factories.

Governments shall provide financial assistance to universities, other institutions of higher learning, professional bodies and non-governmental research units or institutions, for undertaking research for special education. Rehabilitation and manpower development. Every State Government may, by notification appoint a Commissioner for persons with disabilities for the purpose of this Act.

**Appendix – III**  
**Scheme for implementation of persons with  
Disabilities Act, 1995 - Issuance of Guidelines**  
**Ministry of Social Justice & Empowerment, Govt. of India**  
**Department of Empowerment of Persons with Disabilities**

Dated: 11<sup>th</sup> February 2015

Office Memorandum no: 4-2(80)/2014-DD-I

The Ministry has been implementing the Scheme for implementation of persons with Disabilities Act, 1995(SIPDA) for providing financial assistance for undertaking various activities outlined in the PwD Act. Financial assistance is also being provided under the Scheme to State Govt. and institutions/organizations run by the Central and State Governments for various activities for implementing of Persons with Disabilities Act, mainly for providing barrier free environment in Universities, Public Buildings, State Government Secretariat, Office of State Commissioner for Disabilities etc. Financial assistance is also provided to make Government websites at the State and District level accessible to PwDs, to establish early diagnostic and intervention centers at District Headquarters/other places having Government Medical Colleges, with a view to help hearing impaired infants and young children to acquire necessary skills to get prepared for regular schooling, Skill development for PwDs, construction of special centers for PwDs where the appropriate governments/local authorities have their own land and for any other activity specified in the Act for which financial assistance is not being provided/covered by the existing schemes of the Department which may be considered on a case basis by the Department.

The Scheme is broad-based as it covers a wide range of activities. However, very few proposals are received under the Scheme due to low visibility and inadequate awareness about the Scheme.

The following type of activities shall be covered under the scheme:-

- To provide barrier free environment for the persons with disabilities which include access to build environment in schools, colleges, academic and training institutions, offices and public buildings, recreational areas, health centers/hospitals etc. This would include provision for ramps, rails, lifts, adaptation of toilets for wheelchair users, brail signage and auditory signals, tactile flooring, curbs, cuts and slopes to be made in pavement for the easy access of Wheelchair users, engraving on the surface of zebra crossing for the blind or for persons with low vision, engraving on the edges of railway platforms for the blind or for low vision and devising appropriate symbols of disability.
- To make Government websites at the Centre/state and district levels accessible to PwDs as per guidelines issued by Department of administrative Reforms and Public Grievance (D/o AR&PG), Government of India, <http://darpg.nic.in>.
- To promote accessibility of libraries, both physical and digital and other knowledge centers.

- Identification and Survey/issuance of Universal ID of PwDs and to assist State Government to organize camps for issuance of disability certificates.
- To support Composite Rehabilitation Centers (CRCs)/ Regional Centers/Outreach Centers and District Disability Rehabilitation centers (DDRCs) and also to set up new CRCs and DDRCs as and when required.
- To set up/support resource centers facilitating dissemination of information, awareness campaign and sensitization programmes on disability issues, counselling and providing support services.
- To promote research and development activities in the field of disability rehabilitation including to undertake surveys, investigation and research concerning cause of occurrence of disabilities.
- Skill Development and vocational training programme and other programmes for PwDs for ensuring employment of PwDs, including establishing centers for creating economic models appropriate for PwDs.
- Financial assistance for any other activity specified in the PwDs Act for which financial assistance is not being provided/covered by the existing Schemes of the department.

**Implementing agencies:** Funds will be released to the implementing organizations/institutions directly. Financial assistance will be provided by way of Grant-in-Aid to the following agencies like Autonomous Organizations set up by Central/State governments including Central/State Universities.

**Recommendations:** Autonomous organizations including Central/State Universities and Organizations set up supported by Central/State Government should send their proposals through the Central/State Government concerned.

**Conditions for Assistance:**

- All the applications received under the scheme will be examined by a screening committee of the Department consisting of Joint Secretary (SIPDA), Joint Secretary & FA, Director (SIPDA) and two experts in the field of disability, to be nominated by the Ministry.
- The grant-in-aid would normally be released in one installment and in some cases maximum in two installments, depending on the nature of work and the phases of implementation.
- The implementing Agency is required to follow the general Financial Rules, 2005/Codal Procedure/CVC Guidelines in the matters of contract/financial transactions.
- The implementing Agency will be open to inspection by an officer/third party agency authorized by Union ministry of Social Justice and empowerment or the State Government/UT Administration /national Institutes etc.
- When the Government of India has reasons to believe that grant-in-aid is not being utilized for the approved purpose, the amount would be recovered from the implementing Agency with penal interest and no further assistance would be given to the Agency. Ministry will be at liberty to blacklist such organization and to take legal action.
- The grant shall be given for expenditure of a non-recurring nature and no committed

liability shall be credited.

- The implementing agency will maintain a website and prominently display details of grant-in-aid received, purpose thereof, events organized and list of beneficiaries, wherever applicable.
- The implementing Agency shall submit the final Utilization Certificate for the entire grant along with a project completion report within three months after completion of the work/project as stipulated in the proposal. Unutilized money, if any, is to be refunded to the Ministry. In case the work/project is not completed within the stipulated timeframe and further time is sought to complete the same, the organization concerned has to intimate the ministry and also explain the reason for the delay. If the project is not completed within the timeframe/extended timeframe, the organization concerned has to refund the grant forthwith.
- Autonomous Organizations/Statutory Organizations/Sports Bodies and Federations shall maintain subsidiary accounts of GIA as per GFR provisions. They will also maintain a separate bank account for GIA.
- Each proposal should be forwarded to this Department along with requisite documents as per instructions issued in this regard from time to time.
- A proposal from University of Kerala pending submission.

### **PROPOSAL FOR SETTING UP CENTRE FOR RESEARCH & ACTION FOR PERSONS WITH DISABILITIES (C-RAPID @ UNIVERSITY OF KERALA)**

#### **Objectives**

- (i) Taking up inter-disciplinary research on issues and solutions for PWD
- (ii) Development of technologies for supporting PWD
- (iii) Co-ordinate provision of access for PWD in various Departs. and branches of the University

#### **Participating Departments and Centers**

CACEE, Department of Education, Department of Psychology, Department of Sociology and Department of Computer Science

#### **Action Plan**

- Provide fellowship for research on issues related to PWD
- Do annual surveys on PWD
- Provide a central lab for PWD, with sophisticated facility such as daisy, notebooks etc.
- To co-ordinate the access provision including ramps, lifts and special toilets

#### **Budget**

<b>Sl. No</b>	<b>Particulars</b>	<b>Amount</b>
1	Extension of building	1 Crore
2	Research fellowship for PhD (6)	25 lakhs
3	PWD Lab	25 lakhs
4	Lifts, Ramps, Toilets	75 Lakhs
	<b>Total</b>	<b>2.25 Crores</b>

**Appendix IV**  
**Buildings with Ramps & Lifts**

Sl. No.		Department	Ramps	Lifts
1	Science & Technology	Aquatic Biology	√	-
2		Bio Chemistry	√	-
3		Bio Technology	√	-
4		Bioinformatics	√	-
5		Botany	√	-
6		Chemistry	-	-
7		Computer Science	-	-
8		Demography	√	-
9		Environmental Science	√	-
10		Future studies	-	-
11		Geology	√	-
12		Maths	-	-
13		Nanoscience & Nanotechnology	√	-
14		Optoelectronics	√	-
15		Physics	√	-
16		Psychology	√	-
17		Statistics	-	-
18		Zoology	-	-
19	Social Science	Archaeology	-	-
20		Commerce	√	-
21		Economics	-	-
22		Education	-	-
23		History	-	-
24		Islamic Studies	-	-
25		Law	√	-
26		Library & Information Science	-	-
27		Management (IMK)	√	-
28		Philosophy	√	-
29		Politics	√	-
30		Sociology	-	-
31	Arts & Humanities	Arabic	-	-
32		Communication & Journalism	-	-
33		English	-	-
34		German	-	-
35		Hindi	-	-
36		Linguistics	-	-
37		Malayalam	√	-
38		Music	-	-
39		ORI	-	-
40		Russian	-	-
41		Sanskrit	-	-
42		Tamil	-	-
43	Administr	University Office	√	√
44		University Library	√	*
45		Campus Library	√	-
46		Student Centre	√	-
47		University Stadium	√	-

\*Under construction

## **Appendix V**

### **Details of Electric Scooter Choices for Disabled**

#### **Definition: Defining the Meaning of Electric Scooter**

A mobility scooter is a mobility aid equivalent to a wheelchair but configured like a motor-scooter. It is often referred to as a power-operated vehicle/scooter or electric scooter. The electricity is stored on board in a rechargeable battery, which drives one or more electric motors. Electric scooters (as distinct from motorcycles) have a step-through frame.

#### **4 wheel scooters are the most reliable when it comes to outdoor use.**

If you are certain that the turning radius of the larger scooter will not affect your mobility, especially indoors, then a full-size 4 wheel scooter is a good choice, though some 4 wheel electric scooters have a hybrid design that places the front wheels close together giving users a good mix of stability and maneuverability.

Many 4 wheel model mobility scooters include front and rear suspension to provide a much smoother ride at higher speeds than 3 wheel scooters.

Four wheel scooters are designed for maximum stability, and are mainly intended for outdoor use. They are only slightly less maneuverable than the 3 wheel, yet most four wheel mobility scooters do maintain a turning radius that allows you to perform daily functions inside your home. Some of the larger models have knobby tires and high ground clearance which make them great choices for use off road and in rugged terrain.

#### **Features of Some Four Wheel Electric Scooters:**

Features often include horn, speed setting, lights, key ignition, tilt tiller, lever forward and reverse controls and captain type swivel seats. To charge you simply plug the lead into the mains.

Four wheeled power scooters are the culmination of state-of-the-art technology and solid performance. They travel at a speed of 6 mph, on an average. A three wheel power scooter weighs approximately 220 to 250 pounds, and a four wheel power scooter is around 350 to 400 pounds.

#### **4 Wheel Electric Mobility Scooter Model Suggestions:**

##### ***The Honda Monpal ML200***

A stylish electric 4-wheel scooter featuring outstanding comfort and reassuring high stability. This is a convenient vehicle that helps support an active lifestyle for people worried about riding a bicycle long distances or up or down steep slopes. A specially developed suspension provides optimum contact with uneven and inclined road and sidewalk surfaces, and a high-output brush-less motor and high-efficiency control system achieve a high level of running stability and comfort.

##### ***The Parti portable scooter***

Paving the way in dependable, fun mobility-a perfect solution for today's active lifestyle. The Parti scooter is equipped with easy-to-change VELCRO brand color panels, so you

can change the color of your scooter everyday. The lightweight Parti scooter fits easily in most car trunks and easily assembles in seconds without tools. Features include batteries, puncture proof tires, set of three color panels (Red, Blue, and Champagne), front shopping basket, height-adjustable seat, adjustable handlebars, forward and reverse, horn, and 250 lb weight capacity.

### ***Electroride Hornet***

Has everything you need; comfort, technology and mobility power to cover significant distances. The seat and back rest on the Hornet is fully adjustable and it has all the safety features of lights and backing horn. This mobility scooter is fitted with batteries and shipped to your door in a box.

Heavy-duty mobility scooters are bigger and stronger than the average 4 wheel scooter and feature weight capacities of up to 500 pounds and extra-large seats. Because of their large size, heavy-duty models are more difficult to use indoors and require larger lifts or carriers for transport by vehicle.

### **Spitfire EX 1420 Travel 4-Wheel Mobility Scooter by Drive**



For an easily transportable scooter that combines 4-wheel stability and loads of great features, look no further than the Drive Medical Spitfire EX 1420. Great for users on the go, the Spitfire EX 1420 can be quickly and easily disassembled into five lightweight pieces. And its 4-wheel configuration makes it perfect for confidently traversing the outdoors. Please note: The bag shown attached to the right arm of the scooter is an optional accessory that is no longer available.

### **Features:**

- Anti-tip wheels for greater safety
- Armrest reflectors make the scooter more visible when traveling in low light conditions

- Backlit battery gauge makes it even easier to read
- Batteries included
- Comfortable 180 degree swivel seat with fold-down, padded backrest and stylish two-tone upholstery
- Disassembles quickly and easily, without tools, into 5 pieces
- Flat-free, non-marking tires
- Flip-up armrests with adjustable width and angle
- Includes plastic front basket with removable liner bag
- Includes three sets of interchangeable body panels in red, blue and silver | Infinitely adjustable angle tiller with fingertip throttle control
- Wrap-around delta handles make driving easy, even for those with limited dexterity

### Specifications:

- **12 model** has a 9 mile maximum range
- **21 model** has a 15 mile maximum range
- Weight Capacity: 300 lbs
- Floor to Seat Height: 20"-23"
- Front Wheels: 7.5" x 2"
- Ground Clearance: 3"
- Height: 36";Length: 42"
- Max Speed: 5 mph
- Rear Wheels: 8.5" x 3"
- Total Weight: **12 model** 103 lbs
- Total Weight: **21 model** 111 lbs
- Overall Dimensions: 42l X 20w X 36h

### Medical Ventura DLX 4 Wheel Scooter





The Drive Medical Ventura 4 scooter offers a great combination of performance, size, comfort and styling, making it the perfect mobility option if you're looking for the "next step up" from a compact/portable scooter which includes a 350 lb. weight capacity.

### **Features:**

- Maximum range of up to 15 miles
- 4 wheel configuration provides for enhanced stability on rougher outdoor terrain
- All seats have four height adjustments, from 20" to 23"
- All units include both red and blue interchangeable color panels
- Anti-tip wheels for greater safety
- Armrests are also removable and height and width adjustable
- Ergonomic controls
- Folding 18" wide scooter seat
- Headlight
- Large plastic front basket with flip-down handle
- Padded, flip-up armrests allow for easy transfers and user access
- Seat can be moved forward or backward using the auto-style seat slides

### **Specifications**

- Weight Capacity: 350 lbs
- Floor to Seat Height: 19.5" - 22.5"
- Front Wheels: 10.00" x 3.00"
- Ground Clearance: 2.50"
- Rear Wheels: 10.00" x 3.00"
- Seat Weight: 40 lbs
- Top Speed: 5 mph
- Total Weight: **Folding Seat** 153 lbs **Captain's Seat** 185 lbs
- Overall Dimensions: **Folding Seat** 48l X 25w X 36h **Captain's Seat** 48l X 25w X 40h

### **The EW-72 Four Wheel Mobility Scooter by eWheels**



The EW-72 is the first high performance scooter capable of reaching speeds up to 15 mph. This 4 wheel scooter has a maximum rider weight capacity of 500lbs. This scooter is powered by a 700 watt hub motor and 48 volt 20 AH batteries. The EW-72 is shipped fully assembled it also has a 3 year warranty.

### Specifications:

- **Color:** red
- **Speed:** up to 15 mph (varies based on riders weight and terrain)
- **Motor:** 700watt brushless hub motor
- **Max rider weight:** 500 lbs
- **Volts:** 48 volts
- **Amps:** 20ah
- **Batteries:** 48volt lead acid maintenance free
- **Basket:** rear basket
- **Tire size:** front 14"/2.125 rear 16"/2.5
- **Ground Clearance:** 8.5"
- **Charger:** smart charger
- **Distance:** up to 43 miles per single charge (varies based on riders weight and terrain)
- **Throttle:** variable speed control twist throttle
- **Speed rheostat:** limit top speed control dial
- **Remote key:** remote key fob, start/stop, alarm
- **Alarm:** no
- **Braking system:** front drum brake, rear expanding brake also includes electromagnetic brakes
- **Lights:** led, front head light, rear brake lights, front and rear turn signals
- **Carton size:** shipped fully assembled on pallet wood crate
- **Warranty:** 3 year limited warranty

### eWheels EW-54 For Wheel Scooter Buggy



This is the first fast 15mph four-wheel scooter on the market with a color matching FULL COVER TOP and FULL FRONT WINDSHIELD. This scooter is equipped with a foot brake (like a golf cart), executive seat, folding steering column, digital electric dashboard, 2 stereo speakers and music system, cargo box, tubeless tires, cup holder, remote key fob with alarm, 700 watt motor and 60V 20AH batteries. The “BUGGIE” has a unique design style, sure to turn heads!

**Specifications:**

- Color: sour apple, red and orange
- Speed: up to 15 mph (varies based on riders weight and terrain)
- Dimensions: 70" L x 27" W X 62" H
- Motor: 700 watt brushless motor
- Max Rider Weight: 500lbs
- Volts: 60 volts
- AMPs: 20 AH
- Batteries: 48 volt lead acid maintenance free
- Basket: rear color matching cargo box
- Tires: tubeless tires
- Ground Clearance: 6"
- Charger: smart charger
- Range: up to 40 miles per single charge
- Throttle: variable speed control twist throttle
- Remote Key: remote key fob, start/stop, alarm
- Brake: foot brake
- Lights: front head light, rear brake lights, front and rear turn signals
- Warranty: 3 year limited warranty

**Scout 4 Wheel Compact Travel Scooter by Drive**



**Features:**

- Quick and easy disassembly.
- Interchangeable color panels hide scuffs and scratches.
- Armrests are padded and adjustable.
- Quick connect batteries.
- Ergonomic throttle control.
- Height-adjustable swivel seat with fold-down backrest.
- Flat-free, non-marking tires.
- Large, plastic carry basket.
- Easy-to-adjust tiller.
- Anti-tip wheels.
- Delta tiller.
- Easy freewheel operation

**Specifications:**

- Weight Capacity: 300 lbs.
- Top Speed: 4.25 mph
- Maximum Range: 9 miles
- Turning Radius: 53.75"
- Climbing Angle: 6°
- Ground Clearance: 2.5"
- Dimensions 42.5"L x 21.5"W
- Floor-to-Seat Height: 17" - 19"
- Seat Dimensions: 16.5"W x 16"D
- Controller: CTE 45A
- Motor: 24V x 270W x 4700 rpm
- Batteries: 12V x 12AH
- Charger: 2A Offboard
- Brakes: Electromagnetic
- Front Wheels: 8" x 2" Flat-free
- Rear Wheels: 8" x 2" Flat-free
- Base Weight: 58 lbs.
  
- Battery Weight(pair): 20 lbs.
  
- Seat Weight: 16 lbs.
- Total Weight: 94 lbs.
- Heaviest Piece Weight(Front Section): 39 lbs.
- Warranty on Frame: Lifetime

- Warranty on Electronic Controller/Drive Train Components: 14 months
- Warranty on Batteries: 6 months

**The Honda Activa and other two wheeled scooters are bought and altered as four wheeled scooters**



**Cost of Electric Scooter**

<b>Sl. No</b>	<b>Model</b>	<b>Amount</b>
1	Spitfire EX 1420 Travel 4-Wheel Mobility Scooter by Drive	73469
2	Medical Ventura DLX 4 Wheel Scooter	106894
3	The EW-72 Four Wheel Mobility Scooter by eWheels	186848
4	eWheels EW-54 For Wheel Scooter Buggy	233645
5	Scout 4 Wheel Compact Travel Scooter by Drive	50137
6	Honda Activa	60000