



**ANNUAL REPORT**

**&**

**ACCOUNTS OF THE**

**PGIS**

**2012**

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## **1. Vision Statement**

**To be an internationally renowned centre of excellence in Asia for postgraduate education and research in Science**

## **2. Mission Statement**

**To contribute to the development of a knowledge – based society with social sensitivity, ethical rectitude and economic prosperity through postgraduate level education and research in science and dissemination of knowledge in an intellectually stimulating, efficiently managed and harmonious academic environment**

### **3. Director's Review**

#### **a. Introduction**

The Postgraduate Institute of Science (PGIS) is a National Institute attached to the University of Peradeniya, Sri Lanka. The PGIS was established in 1996 by an ordinance from the Ministry of Higher Education in order to promote science education and research & development (R&D) in scientific disciplines in Sri Lanka. The principal objective of the Postgraduate Institute of Science is to promote and provide postgraduate instruction, training and research in various scientific specialties, enhancing the graduate academic experience.

The PGIS conducts M.Sc. M.Phil. and Ph.D. degree programmes as well as postgraduate diploma and certificate courses while conducting in-service training programmes, short courses, workshops, etc. These programmes of the PGIS are conducted through 10 Boards of Study in close collaboration with the Faculty of Science, University of Peradeniya. The members of the teaching panels are drawn from eight faculties of the University of Peradeniya, as well as from other universities and institutes. The Institute also offers consultancy services to local industry and public/private sector institutions. Sandwich and collaborative research programmes have also been launched with international institutions in USA, UK, France, Sweden, Japan, Italy, Thailand, South Korea and other countries.

#### **b. Achievements**

Four M.Sc. programmes with a total of 94 students and one PG Diploma programmes with a total of 22 were commenced during the 2012. In addition, 33 new M. Phil students were enrolled during the year. Two Ph.D students, 13 M.Phil students, 79 M.Sc. students and 56 Postgraduate Diploma students were graduated in 2012. Ms. L L W E Yalegama (Prof. D N Karunaratne), Mr. E M L Ekanayake (Prof. R Sivakanesan and Dr. C Jayasekera) were awarded Ph.D degrees through the Boards of studies in Chemical Sciences and Zoological Sciences respectively. The names of the supervisor/s are given in brackets. Ms.H P S Senerath (Prof. B M R Bandara, Dr. M S W De Silva and Dr. E M R K B Edirisinghe), Mr. W W Kumbukgolla (Prof. B M R Bandra, Prof. V Thevanesam and Prof. N S Kumar), Mr. E M L Ekanayake (Dr. Rupika Rajakaruna, Dr. P Samaraweera and Prof. K B Ranawana), Ms. N H N Priyanwada (Prof. H R W Dharmaratne and Dr. W M A P

Wanigasekera), Ms. L N S Perera (Dr. W A M Daundasekera and Dr. D S A Wijesundara), Ms. K M D Gunathilake (Prof. S A Kulasooriya, Dr. R R Rathnayake and Prof. D N Karunaratne), Ms. P N Yapa (Dr. H M S P Madawala and Dr. T C Bamunuarachchige), Ms. T C Weeraratne (Prof. S H P P Karunaratne), Mr. S G Anuradha (Prof. R M G Rajapakse, Prof. H M N Bandara and Dr. G R A Kumara), Ms. R M A U Rajapakse (Dr. Meththika Vithanage, Dr. S V R Weerasooriya and Dr. W M A T Bandara), Ms. R M D S Chandrathilaka (Dr. C V Hetiarachchi), Mr. M A Bandaranayake (Prof. H M D N Priyantha), Ms. A R N M Abeyrathna (Prof. A D L C Perera), Mr. T D A Gomez (Prof. W B Daundasekera) were awarded M.Phil degrees through the Boards of studies in Biochemistry & Molecular Biology, Chemical Sciences, Earth Sciences, Mathematics, Plant Sciences and Zoological Sciences respectively. The names of the supervisor/s are given in brackets.

During 2012 a large number of foreign scientists visited the PGIS and delivered lectures and served as resource persons in conferences, symposiums, training programmes, workshops and short courses. Among them were: Dr. Stanley Freeman, Department of Plant Pathology and Weed Research, Agriculture Research Organization, Volcani Center, Bet Dagan, Israel, Prof. Zvi Mendel, Department of Entomology, Agriculture Research Organization, Volcani Center, Bet Dagan, Israel, Prof. Kunlee Oloyede, School of Engineering Systems, Queensland University of Technology, Australia, Dr. Nihal Bandara, Research Fellow, College of Pharmacy, University of Texas at Austin, Austin, Texas, U.S.A. Prof. Tomonori Kawakami (Chairman, Department of Environmental Engineering, Toyama Prefectural University, Japan), Prof. Kathryn Sieving and Ms. Fangyuan Hua from Department of Wildlife Ecology and Conservation, University of Florida, USA. Mr. N.M.S.I Arambepola, Executive Director, Mr. Sisira Kumara, Dr. Buddi Weerasinghe and Dr. Mutarika Pruksapong, Asian Disaster Preparedness Center (ADPC) Bangkok, Thailand. Dr. Arisara Charoenpanyanet, Dr. Chakrit Chotamornsak and Dr. Liwa Pardthaisong-Chaipanich Chiang Mai University, Thailand.

A total of 21 activities of national importance (workshops, short courses, conference, Symposium, Training Programme etc.,) successfully conducted during 2012. From these activities 578 participants with different backgrounds were benefited. These activities include 12 short courses, 4 workshops, 1 training programme, 1 international symposium,

1 conference and 1 postgraduate certificate course. An MOA has been signed with the ADPC and several workshops have been organized for Disaster Management students and Staff. A 30 seater bus had been purchased to strengthen field visit and study visits of the PG students. The proposal submitted jointly with the Faculty of Science for Higher Education for Twenty First Century (HETC) Grant QIG Window 3 (Postgraduate Research) was successful. Under this grant Rs. 30 M will be awarded and 9 Ph.D students are working on the following research projects.

1. Development of dye-sensitized solar cells for solar energy conversion
2. Assessing geo-thermal energy development potential in thermal spring areas of Sri Lanka
3. Development of nanoclay-polymer materials as low-cost oxygen reduction electrodes for fuel cell applications
4. Development of modified photochromic compounds with improved properties for use in molecular electronics.
5. Assessment of antimicrobial agents in plant-mineral formulations
6. Improving the bioavailability of natural bioactive components for drug and cosmetic based
7. Assessment of environmental impacts of the Mahaweli Diversion Scheme in selected downstream locations
8. Role of small mammals as reservoir hosts of rickettsioses and leptospirosis in Sri Lanka

Revaluation of assets and maintaining of a proper fixed asset register is a long felt need of the PGIS. Necessary steps were taken to revalue the assets through the government Valuation Department and a user friendly computer package was purchased to maintain a fixed asset register. This would ensure automation and immediate response to requests for statutory processes, such as checking inventory, location of the items, depreciated value of items, etc.

### **c. Failure and Justification**

A low graduation rate due to weak students, obtaining leave when necessary from their respective workplaces, and long delayed administrative procedures/bottlenecks are the problems that delay in completing the research project/thesis, in particular, at the writing stage. Several remedial measures have been taken to improve the quality of the project report/thesis and to complete them on time. As a result, we managed to clear most of the cases up to the 2006 batch of students. Similar efforts were implemented to educate M.Phil. and Ph.D. students through the Young Researchers Forum (YRF) of the PGIS. Consequently 2 Ph.D. students, 13 M.Phil. students and 79 M.Sc. students were graduated at the last convocation. Non-availability of funding for major research equipment and for research grants are the main obstacles in strengthening postgraduate research. This is further amplified by the non-access to science journals on line.

### **d. Future Plans**

In keeping with the vision and mission of the PGIS, activities have been planned for the next few years **(Details are given in the Corporate Plan and the Master Plan). This includes equipping laboratories with major research equipment, construction of a hostel, a library, Common room/canteen, etc.**

Prof. B S B Karunaratne

Director / Postgraduate Institute of Science

University of Peradeniya

#### 4. Details of Resources and Students:

Institute	Course (Coursework)	Intake in 2012	Previous Year intake	Total Academic Staff	Total Non Academic staff
PGIS	M.Sc. in Clinical Biochemistry	-	10	-	-
	M.Sc. in Experimental Biotechnology	-	27	-	-
	M.Sc. in Analytical Chemistry	-	34	-	-
	M.Sc. in Industrial Chemistry	-	11	-	-
	M.Sc. in Nanoscience & Nanotechnology	-	38	-	-
	M.Sc. in Disaster Management	-	18	-	-
	M.Sc. in GIS & Remote Sensing	-	48	-	-
	M.Sc. in Environmental Science	-	30	-	-
	M.Sc. in Biodiversity, Ecotourism & Environment Management	-	13	-	-
	M.Sc. in Industrial Mathematics	-	08	-	-
	M.Sc. in Physics of Materials	-	11	-	-
	M.Sc. in Medical Physics	13	14	-	-
	M.Sc. in Medical Microbiology	13	-	-	-
	M.Sc. in Science Education	18	14	-	-
	PG Diploma in Science Education	22	-	-	-
	M.Sc. in Applied Statistics	-	36	-	-
	M.Sc. in Computer Science	-	69	-	-
	PG Diploma in Information Technology	-	-	-	-
	M.Sc. in Engineering Geology & Hydrogeology	-	29	-	-
	M.Sc. in Water Resources Management	-	11	-	-
Applied Epidemiology	29	-	-	-	
<b>Total</b>		95	421	-	-

### 5. Details of Local Students (Medium of instruction is English):

Board of Study	Course Name	Intake 2012 Ph.D.	Intake 2012 M.Phil.	Intake 2012 M.Sc.	Diploma	No. of Graduated M.Sc/M.Phil./ Ph.D. Pl see the foot note*	No. of Diploma Completed
Biochemistry & Molecular Biology	M.Sc. in Clinical Biochemistry					11	01
	M.Sc. in Experimental Biotechnology						01
Chemical Sciences	M.Sc. in Analytical Chemistry		16			20	06
	M.Sc. in Industrial Chemistry						
	M.Sc. in Nanoscience & Nanotechnology						
Environmental Science	M.Sc. in Biodiversity, Ecotourism and Environmental Management	01				04	
	M.Sc. in Environmental Sciences						
Earth Science	M.Sc in Engineering Geology, & Hydrology						
	M.Sc. in Disaster Management		05			08	10
	M.Sc. in GIS & Remote sensing						
	M.Sc. in Water Resources Management						
Plant Sciences	M.Sc. in Medical Microbiology		07	13		03	
	M.Sc in Plant Sciences						
	M.Sc in Post-harvest Technology of Fruits and Vegetables						
Physics	M.Sc. in Physics of Materials		03				
	M.Sc in Medical Physics			13			

Science Education	M.Sc. in Science Education			18	14	20
	PG Diploma in Science Education			22		
Statistics & Computer Science	M.Sc. in Applied Statistics	01	04		30	17
	M.Sc. in Computer Science					
	PG Diploma in IT					
Mathematics	Industrial Mathematics				02	01
Zoology	Applied Epidemiology		03	29	02	
	<b>Total</b>	<b>02</b>	<b>38</b>	<b>95</b>	<b>94</b>	<b>56</b>

\* Note: Students graduated are from the previous batches

## 6. Details of Foreign Students:

Institute	Course	Medium	Intake 2012	1 <sup>st</sup> Year students	2 <sup>nd</sup> year students	3 <sup>rd</sup> year students	4 <sup>th</sup> year students	No of graduated
	M.Sc. in Medical Physics	English						one

## 7. Details of Academic Staff (Visiting):

Institute	Subject	Medium	Senior Professor/ Professor/ Assoc. Professor	Senior Lecturer/ Lecturer	Instructor
PGIS	Clinical Biochemistry	English	08	10	02
	Experimental Biotechnology	English	03	07	11
	Analytical Chemistry	English	08	09	12
	Industrial Chemistry	English	10	13	04
	Nanoscience & Nanotechnology	English	11	09	06
	Disaster Management	English	09	30	04

	GIS & Remote Sensing	English	04	23	10
	Engineering Geology and Hydrogeology	English	08	20	05
	Gemology and Industrial Minerals	English	08	12	-
	Water Resources Management	English	07	11	-
	Environmental Science	English	09	13	08
	Biodiversity, Ecotourism & Environment Management	English	05	11	09
	Industrial Mathematics	English	03	10	-
	Physics of Materials	English	05	13	04
	Medical Physics	English	02	17	-
	Medical Microbiology	English	08	23	07
	Plant Sciences	English	05	13	06
	Postharvest Technology of Fruits and Vegetables	English	01	11	-
	Science Education	English	15	36	02
	PG Diploma in Science Education	English	02	13	-
	Applied Statistics	English	05	08	-
	Computer Science	English	02	12	07
	PG Diploma in Information Technology	English	01	07	04
	Applied Epidemiology	English	03	17	-

### 8. Details of Academic/Non-Academic Staff:

Institute	Most Senior	Senior Staff	Junior Staff	Minor Staff
PGIS	01	04	13	04

## 9. Details of Research, Innovation and Publications:

Subject	Published	Commercialized	Presented
a. No. of Researches	-	-	-
b. No. of Innovations	-	-	-
c. No. of Journals	-	-	-
d. No. of Books	-	-	-
e. No. of Articles	-	-	-
f. Others (News Letter)	-	-	-

## 10 (a) . Ph.D , M.Phil and M.Sc DEGREES AWARDED & TITLES OF THESES Ph.D. and M.Phil. DEGREES AWARDED in 2012

### *Awardees*

### *Titles of Theses*

#### **Ph.D. – Chemical Sciences**

- |    |                  |  |
|----|------------------|--|
| 1. | L L W C Yalegama | Characterization and nutritional effect of cell wall polysaccharides from coconut kernel<br><br>(Supervisors: Prof. D N Karunaratne, Prof. R Sivakanesan and Dr. (Ms.) C Jayasekera) |
|----|------------------|--|

#### **Ph.D. – Zoology**

- |    |                 |   |
|----|-----------------|---|
| 1. | E M L Ekanayake | Nesting behaviour, reproductive output, genetic structure and nest paternity of the green turtle nesting at Kosgoda rookery in Sri Lanka<br><br>(Supervisors: Dr. R S Rajakaruna, Dr. P Samaraweera and Prof. K B Ranawana) |
|----|-----------------|---|

#### **M.Phil. – Biochemistry & Molecular Biology**

- |    |                  |   |
|----|------------------|---|
| 1. | N H N Priyanwada | Effect of inclusion of <i>Setaria italica</i> (L.) P. Beauv seeds in ruminant feed on the level of <i>cis-9,trans-11</i> isomer of conjugated linoleic acid content in goat milk<br><br>(Supervisors: Dr. W M A P Wanigasekara and Prof. H R W Dharmaratne) |
|----|------------------|---|

### **M.Phil. – Chemical Sciences**

1. A M A Bandaranayake      Mechanistic investigation of interaction of chromium species and thermally-treated brick clay  
(Supervisor: Prof. Namal Priyantha)
2. R M A U Rajapaksha      Natural dissolution mechanisms of serpentinite soils from Sri Lanka: leaching of chromium, nickel and manganese to the environment  
(Supervisors: Dr. M Vithanage, Prof. S V R Weerasooriya and Dr. W M A T Bandara)
3. A R N M Abeyrathna      Synthesis of glycolipids for use as liquid crystals and surfactants  
(Supervisors: Prof. A D L C Perera and Prof. D N Karunaratne)
4. A M D S Chandrathilaka      Equilibrium studies on toxic metal ion-mixed ligand systems under physiological conditions  
(Supervisor: Dr. C V Hettiarachchi)
5. S G Anuradha      Development of dye-sensitized solar cells using Atomized Spray Pyrolysis technique  
(Supervisors: Prof. R M G Rajapakse, Prof. H M N Bandara and Dr. G R A Kumara)
6. W W Kumbukgolla      Tea catechins: Antibacterial activity against methicillin-resistant *Staphylococcus aureus* (MRSA) and enhancement of sensitivity of MRSA to oxacillin  
(Supervisors: Prof. B M R Bandara, Prof. V Thevanesam and Prof. N S Kumar)

### **M.Phil. – Mathematics**

1. T D A Gomezs      A binary-integer programming method for optimal control of water distribution systems  
(Supervisor: Prof. W B Daundasekara)

### **M.Phil. – Plant Sciences**

1. P N Yapa      Impacts of soil biological and chemical properties on forest dieback at Horton Plains National Park, Sri Lanka: influence of arbuscular mycorrhizal fungi on the growth of *Syzygium rotundifolium* Arn.  
(Supervisors: Dr. H M S P Madawala and Dr. T C Bamunuarachchige)

## **M.Phil. – Zoology**

1. T C Weeraratne                      Effective control of dengue fever vectors: *Aedes aegypti* and *Ae. albopictus* in Sri Lanka  
(Supervisor: Prof. S H P P Karunaratne)

## **10 (b) Details of Programme, Seminars & Workshops**

### **11 SYMPOSIA, CONFERENCES, WORKSHOPS AND SHORT COURSES**

12

<b>Event</b>	<b>Coordinator(s) (Board of Study)</b>	<b>Date(s)</b>	<b>No. of Participant s</b>
42 <sup>nd</sup> Short Course on GIS and Applications	Dr. Jagath Gunatilake (Earth Sciences)	Jan. 16 - 21	26
10 <sup>th</sup> Advanced Short Course on GIS and Applications	Dr. Jagath Gunatilake (Earth Sciences)	Feb. 6 - 11	16
43 <sup>rd</sup> Short Course on GIS and Applications	Dr. Jagath Gunatilake (Earth Sciences)	Feb. 13 - 18	25
Training Programme for Elephant Keepers in Pinnawala <i>Organized in collaboration with the National Zoological Gardens</i>	Dr. Ashoka Dangolla (Zoological Sciences)	March 19 – April 20	40
44 <sup>th</sup> Short Course on GIS and Applications	Dr. Jagath Gunatilake (Earth Sciences)	March 19 - 24	21
International Symposium on Water Quality and Human Health <i>Organized in collaboration with the Toyama Prefectural University, Japan and UGC, Sri Lanka</i>	Dr. S K Yatigamma (Environmental Science and Zoological Sciences)	March 22 - 23	141
Postgraduate Certificate Course in Advanced Organic Chemistry	Prof. U L B Jayasinghe (Chemical Sciences)	March 24 - September	14
45 <sup>th</sup> Short Course on GIS and Applications	Dr. Jagath Gunatilake (Earth Sciences)	April 23 - 28	23
11 <sup>th</sup> Advanced Short Course on GIS and Applications	Dr. Jagath Gunatilake (Earth Sciences)	May 14 - 19	11
46 <sup>th</sup> Short Course on GIS and Applications	Dr. Jagath Gunatilake (Earth Sciences)	May 28 - June 2	23
Workshop on Linear Accelerator for Medical Physicists and Medical Physics M.Sc. Students	Dr. V Sivakumar Mr. A D Kumar (Physics)	June 3	25

(Venue – National Cancer Hospital, Maharagama)

Short Course on Research Design for Field Biologists <i>Organized in collaboration with the Department of Wildlife Ecology and Conservation, University of Florida, USA</i>	Dr. N Jayasena (Zoological Sciences)	June 29 - July 3	26
Workshop on 'How to write a research proposal for M.Phil./Ph.D. studies at PGIS' <i>Organized in collaboration with the International Research Center, University of Peradeniya</i>	Dr. Nanda Gunawardhana	July 17	102
12 <sup>th</sup> Advanced Short Course on GIS and Applications	Dr. Jagath Gunatilake (Earth Sciences)	Aug. 13 - 18	30
47 <sup>th</sup> Short Course on GIS and Applications	Dr. Jagath Gunatilake (Earth Sciences)	Sep. 10 - 15	12
Workshop on 'Curriculum Revision of the M.Sc. Programme in Disaster Management - Past and Present Students'	Dr. Jagath Gunatilake Prof. B S B Karunaratne Prof. K D W Nandalal (Earth Sciences)	Nov. 17	26
Workshop on 'Curriculum Revision of the M.Sc. Programme in Disaster Management - Teaching Staff and Stakeholders' <i>Organized in collaboration with the ADPC, Thailand</i>	Dr. Jagath Gunatilake Prof. B S B Karunaratne Prof. K D W Nandalal (Earth Sciences)	Nov. 18	27
48 <sup>th</sup> Short Course on GIS and Applications	Dr. Jagath Gunatilake (Earth Sciences)	Nov. 19 - 24	24
Conference on Herpetological Conservation & Biology <i>Organized in collaboration with the NSF and International Research Centre, University of Peradeniya</i>	Dr. R S Rajakaruna Dr. M Meegaskumbura Dr. A Dangolla Dr. R Somaweera Mr. T Kapurusinghe (Zoological Sciences)	Nov. 28 - 29	41
13 <sup>th</sup> Advanced Short Course on GIS and Applications	Dr. Jagath Gunatilake (Earth Sciences)	Dec. 10 - 15	9
Faculty Development Workshop for Teaching Staff of Disaster Management MSc programme <i>Organized in collaboration with the ADPC and Chiang Mai University, Thailand, and Tulane University, USA</i>	Dr. Jagath Gunatilake (Earth Sciences)	Dec. 22 -24	18

## 11. Details of Awards Received

Subject	No. of Awards	No. of Academics*	No. of Students
a. Local Awards (PGIS Scholarships)	-	-	-
b. National Awards	-	-	-
c. International Awards	-	-	-
d. Others	-	-	-

\* PGIS has only Visiting Academics

## 12. Details of New Courses Started

Institute	Course	Medium	Certificate	Diploma	PG Diploma	Masters	M.Phil.	Ph. D.
PGIS	NO							

## 13. Details of Recurrent Expenditure:

Subject	2011 Rs.	2012 Rs.
a. Personal Emoluments	18,892,848	22,904,183
b. Traveling	984,840	862,567
c. Supplies	2,137,152	3,121,660
d. Maintenance	1,709,442	917,677
e. Contractual Services	3,435,371	3,813,586
f. Others	3,042,083	4,099,474

## 14. Details of Capital Expenditure:

Subject	2011 Rs.	2012 Rs.
a. Acquisition of Furniture & Office Equipment	6,546,032	10,232,443
b. Acquisition of Machineries	-	-
c. Acquisition of Building & Structures	3,169,215	-
d. Others	-	-

## 15. Details of Projects (Local/Foreign Funded)

Name and Details	Loan/ Grant	Funding Agency*	TCE Rs	RFA Rs	DF Rs
Prof. Namal Priyantha	Grant	NSF	2,619,400	-	-
Dr. B S Dassanayake	Grant	NSF	1,366,000		
Prof. Namal Priyantha	Grant	NSF	2,710,895		
Prof J P Edirisinghe	Grant	NSF	1,300,000		
Prof A D L C Perera	Grant	NSF	1,563,141		
Dr. V A Seneviratne	Grant	NSF	1,860,000		
Prof. D Yakandawala	Grant	NSF	--	--	
Prof. K B Ranawana	Grant	IUCN/MFF/06	422,400		
Prof. R Chandrajith	Grant	IUCN/MFF/05	481,976		
Ms. T H N G Amaraweera	Scholarship	Ministry of Higher Education	3,300,000		
Ms. L C P T Liyanaarachchi	Scholarship	Ministry of Higher Education	1,550,000		
Prof. I A U N Gunatilleke	Grant	Gelmholtz- Zentrum fur umweltforschung GmbH UFZ Germany	4,029,600 (US\$ 37,072)		

\*(GOSL/ADB/IDA/WB/...)

## 16. Details of Project Expenditure (Local/Foreign Funded):

Name	TCE Rs	Exp. In 2011 Rs.	Exp. In 2012 Rs.	Cumulative Exp. As at 31.12.2012 Rs.	% of Physical Progress
Prof. Namal Priyantha RG/2012/BS/02	2,619,400.00	-	25,000.00	25,000.00	0.95
Dr. B S Dassanayake RG/2012/BS/03	1,366,000.00	-	-	-	-
Prof. Namal Priyantha RG/2012/BS/05	2,710,895.00	-	25,000.00	25,000.00	0.92
Prof. J P Edirisinghe NSF/Fellow/2010/02	1,300,000.00	546,308.50	587,034.80	1,250,264.93	96.17
Prof. A D L C Perera RG/2011/BS/02	1,563,141.00	104,660.00	388,083.00	492,743.00	31.52
Dr. V A Seneviratne RG/2011/BS/03	1,860,000.00	20,644.00	390,729.50	411,373.50	22.12

Prof. R M G Rajapakse RG/2009/NANO/01	3,139,400.00	788,269.00	288,840.00	2,298,857.45	73.23
Prof. A Wickramasinghe RG/2009/BS/01	3,145,000.00	369,408.00	349,700.00	819,108.00	26.05
Dr. C S Hettiarachchi RG/2008/BS/01	1,490,000.00	321,923.00	-	1,373,881.41	92.21
Dr. P Saravana Kumar RG/2008/SUNR/01	2,020,000.00	449,237.50	-	1,836,217.63	90.90
Dr. S K Yatigammana RG/2008/EB/01	606,581.00	33,264.00	-	300,975.25	49.62
Dr. H A Dharmagunawardena RG/2007/AG/02	1,181,800.00	10,000.00	-	902,631.17	76.38
Prof. A D L C Perera RG/2007/FR/05	1,484,750.00	247,813.00	-	1,054,350.00	71.01
Prof. D Yakandawala SIDA/2007/BT/02	2,022,746.00	465,225.00	500,830.75	1,537,896.25	76.03
Dr. Rupika Rajakaruna RG/2007/EB/01	985,000.00	488,551.42	-	985,000.00	100
Prof. R M G Rajapakse RG/2007/FR/08	1,800,000.00	346,200.20	-	1,519,933.00	84.44
Prof. Namal Priyantha RG/2007/FR/06	1,078,538.33	27,960.00	-	1,078,538.33	100
Prof. D Yakandawala SIDA/2005/BT/05	698,200.00	58,900.00	-	620,100.00	88.81
Prof. K B Ranawana IUCN/MFF/06	422,400.00	225,940.75	180,239.65	406,180.40	96.16
Prof. R Chandrajith IUCN/MFF/05	481,976.00	251,321.21	267,313.26	518,634.47	107.60
Dr. T Thiliepan HETC Project	910,000.00	-	207,445.08	-	21.80
Ms. T H N G Amaraweera HETC Project	3,300,000.00	170,000.00	-	170,000.00	5.15
Prof. I A U N Gunatilleka SL USA	-	177,724.00	-	177,724.00	-

Dr. P Saravana Kumar Ryzobium Project	5,178,963.50	890,680.50	-	5,178,963.50	100
<b>Foreign Grants</b> Prof. I A U N Gunatilleka Sinharaja Project	4,029,600.00 (US\$ 37,072)	1,163,655.75	2,244,686.50	3,408,342.25	84.58
Prof. M A K L Dissanayake IPPS Grant	8,207,130.11	1,669,939.46	945,730.92	8,111,329.31	98.83
Prof. M A K L Dissanayake EEC Grant	726,916.40	-	75,650.40	299,917.65	41.26
Prof. I A U N Gunatilleka DRAWIN Project	4,295,207.28 (GBP.5,600.00)	4,210,734.30	-	4,210,734.30	98.03
Prof. I A U N Gunatilleka Foreign Finance Project	8,099,000.00 (Euro 50,000.00)	520,340.12	1,210,748.18	1,731,088.30	21.37
<b>Consultancy Project</b> Dr. H A Dharmagunawardena Geological & Geophysical Exploration for Assessing Melsiripura	1,531,750.00	-	983,746.00	983,746.00	64.22
Dr. J Gunatilake Consultancy Project RDA EIA Badulla	9,126,000.00	-	3,130,928.90	3,130,928.90	34.31
Dr. S K Yatigamma Re Alga Analysis of Ibbankatuwa Reservoir	756,000.00	-	29,000.00	29,000.00	3.84
Dr. H A Dharmagunawardena Investigations of Moragahakanda Reservoir	807,400.00	437,366.00	110,980.00	548,346.00	67.92
Dr. H M T G A Pitawala Hambantota International Airport Development Project	61,800.00	61,800.00	-	61,800.00	100

### 17. Details of Financial Progress (Expenditure)

Subject	Provision in 2012 Rs.	Exp. In 2012 Rs.	Savings / Excess Rs.
a. Recurrent except Projects	58,164,000	35,719,147	22,444,853
b. Capital except Projects	4,200,000	10,232,443	(6,032,443)
c. Project – Local funded	-	-	-
d. Project – Foreign funded	-	-	-

\* Rs. 12.7 Million from PGIS earnings

\*\* Rs. 19.1 Million from PGIS Government Grant

### 18. Details of Financial Progress (Generated Income)

Subject	Provision in 2012 Rs.	Collection in 2012 Rs.	Deficit / Surplus Rs.
a. Undergraduate Students	-	-	-
b. Postgraduate Students	48,164,000	48,204,410	(45,410)
c. Consultancies	5,245,150	5,245,150	-
d. Others	-	-	-

### 19. Financial Performance Analysis – 2012:

Subject	Formula	Exp. Per student Rs.
a. Recurrent Expenditure per Student (RE)	Total recurrent exp./No. of Students	24,874
b. Capital Expenditure per Student (CE)	Total capital expenditure/No. of students	7,125

### 20. Details of Infrastructure Facilities Received in 2012:

Subject	Expenditure Rs.	Physical Progress
Indicated under 14 (a)	-	Satisfactory

## 21. Students' Statistics (2006 - 2012)

<b>Year</b>	<b>Yearly Admissions/Enrolments Diploma/M.Sc./ M.Phil./Ph.D.</b>	<b>No. awarded Diploma/M.Sc./ M.Phil./Ph.D.</b>	<b>Dropped out/Fail Diploma/M.Sc./ M.Phil./Ph.D.</b>
2006	418	166	24
2007	378	171	14
2008	348	140	22
2009	273	182	-
2010	325	275	-
2011	481	163	01
2012	135	150	-
<b>Total</b>	<b>2358</b>	<b>1247</b>	<b>61</b>

Postgraduate Diplomas were offered for those who have not reached the required GPA (above 3.00) / unable to complete the research project for the M.Sc. degree.

M.Sc. Minimum 18 months duration

M.Phil. Minimum 2 years duration

Ph.D. Minimum 3 years duration



**විගණකාධිපති දෙපාර්තමේන්තුව**  
**கணக்காய்வாளர் தலைமை அபிவிதி திணைக்களம்**  
**AUDITOR GENERAL'S DEPARTMENT**



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 எனது இல } CL/KD/J/DF/PGIS/  
 My No. } 2013/26

මගේ අංකය }  
 உமது இல }  
 Your No. }

දිනය }  
 திகதி } 05 December 2013  
 Date }

The Director,  
 Postgraduate Institute of Science

Report of the Auditor General on the Financial Statements of the Postgraduate Institute of Science for the year ended 31 December 2012 in terms of Section 108 of the Universities Act, No. 16 of 1978.

The audit of financial statements of the Postgraduate Institute of Science for the year ended 31 December 2012 comprising statement of the financial position as at 31 December 2012, and the comprehensive income statement, statement of changes in equity and cash flow statement for the year then ended and a summary of significant accounting policies and other explanatory information was carried out under my direction in pursuance of provisions in Article 154(1) of the Constitution of the Democratic Socialist Republic of Sri Lanka read in conjunction with Section 21 of the Ordinance appearing in the Gazette Extraordinary No.909/13 of 09 February 1996 and Sub-section 107(5) and Sections 108 and 111 of the Universities Act, No. 16 of 1978. My comments and observations which I consider should be published with the Annual Report of the Institute in terms of Sub-section 108(1) of the Universities Act, appear in this report. A detailed report in terms of Sub-section 108(2) of the University Act was furnished to the Director of the Institute on 17 July 2013.

1.2 Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with Sri Lanka Accounting Standards and for such internal control as the management determines is necessary to enable the preparation of financial statements that are free from material misstatements, whether due to fraud or error.

306/72, පොල්දූව පාර,  
 බත්තරමුල්ල, ශ්‍රී ලංකාව

இல. 306/72, பொல்துவ வீதி,  
 புத்தரமுல்லை இலங்கை

No.306/72, Polduwa Road,  
 Battaramulla, Sri Lanka

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 E-mail. }

### 1.3 Auditor's Responsibility

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My responsibility is to express an opinion on these financial statements based on my audit. I conducted my audit in accordance with Sri Lanka Auditing Standards. Those Standards require that I comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgments, including the assessment of the risks of material misstatements of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Institute's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Institute's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by management, as well as evaluating the overall presentation of financial statements. Sub - sections (3) and (4) of the Section 13 of the Finance Act, No. 38 of 1971 give discretionary powers to the Auditor General to determine the scope and extent of the audit.

I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my qualified audit opinion.

### 1.4 Basis for Qualified Audit Opinion

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My opinion is qualified based on the matters described in paragraph 2.2 of this report.

## 2. Financial Statements

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### 2.1 Qualified Opinion

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In my opinion, except for the effects of the matters described in paragraph 2.2 of this report, the financial statements give a true and fair view of the financial position of the Postgraduate Institute of Science as at 31 December 2012 and its financial performance and its cash flows for the year then ended in accordance with Sri Lanka Accounting Standards.

## 2.2 Financial Statements

### 2.2.1 Comments on Financial Statements

#### 2.2.2 Sri Lanka Accounting Standards

The following non-compliances were observed.

- (a) According to Sri Lanka Accounting Standard 7, the policies on the determination of cash and cash equivalents should be clearly disclosed. Nevertheless, such disclosure had not been made in connection with the cash and cash equivalents as at 01 January 2012 and as at 31 December 2012 amounting to Rs.50,518,125 and Rs.11,045,355 respectively.
- (b) According to Sri Lanka Accounting Standard 16, furniture and fixtures should be shown separately in the classification of property, plant and equipment. But, those had not been shown separately in the financial statements for the year 2012. The value of that as at the end of the year 2011 amounted to Rs.12,075,000 and the depreciation percentage had been shown as 10 per cent in the year 2011. As that was shown under the office equipment in the year 2012 depreciation percentage had been increased from 10 to 20 per cent. As the effective life had been reduced from 10 to 05 years, depreciation had been overstated by a sum of Rs.1,207,500 in the financial statements for the year 2012.

#### 2.2.3 Accounting Deficiencies

The following observations are made.

- (a) Lecture fees amounting to Rs.870,850 relating to the preceding year paid in 15 instances in the year under review had been brought to account as expenditure for the year under review and as such the expenditure of the year had been overstated by that amount.
- (b) Outstanding lecture fees amounting to Rs.192,675 relating to the year under review had not been brought to account under accrued expenses and as such the expenditure on lecture fees had been understated by that amount.

- (c) Answer scripts evaluation fees amounting to Rs.13,400 relating to the year under review had not been shown as expenditure for the year and as such examination fees expenditure had been understated by that amount.
- (d) The Ecology Academic Board attendance and Secretarial allowance amounting to Rs.30,100 relating to the year under review had not been taken into the Specialized Services (80902) expenditure and as such the Specialized Services expenditure had been understated by that amount.
- (e) Even though 5 per cent of income from short-term workshops and courses should be brought to account as Academic Board fees income, academic Board fees amounting to Rs.2,498,054 received for 10 Academic Boards had been shown inappropriately as current liabilities.
- (f) Expenditure amounting to Rs.453,868 relating to the short-term courses and workshops conducted in the year 2012 and paid in the year 2013 had not been brought to account as accrued expenditure in the year and as such the expenditure for the year had been understated by that amount.
- (g) The administrative fees at 10 per cent amounting to Rs.38,500 recoverable by the Institute on the short term courses conducted in the year 2012 had been understated and as such the income for the year had been understated in the financial statements.
- (h) Income of Rs.445,000 receivable in respect of short-term courses conducted in the year under review had not been brought to account and as such the income for the year and the income debtors for the year had been understated by that amount.
- (i) Action had not been taken for the takeover by the Institute and account for the fixed assets valued at Rs.2,625,444 purchased by utilizing the provisions made for researches.

### 2.2.5 Lack of Evidence for Audit

- (a) The following 05 items of account valued at Rs.36,314,932 could not be satisfactorily vouched in audit due to the unavailability of the evidence indicated against each item.

Item	Value	Evidence not made available
	Rs.	
Motor Vehicles	4,050,000	Board of Survey Reports
Office Equipment	7,256,707	Schedules
Research and Teaching Equipment	17,434,225	- do -
Library Books	7,060,000	- do -
Telephones	514,000	- do -
<b>Total</b>	<b>36,314,932</b>	

- (b) Out of the sum of Rs.3,650,400 received in the year 2012 from the Road Development Authority in connection with the Project on the Environmental Impact from the construction of the expressway from Kandy to Badulla, a sum of Rs.2,515,000 had been paid in the year under review to the resource persons as the co-ordination, consultancy and the other allowances of the Project. The files, documents, registers and progress reports required for the confirmation of their contribution and the work executed by them for that Project had not been furnished for audit.

### 2.2.6 Non-compliance with Laws, Rules, Regulations and Management Decisions

Instances of non-compliances with the following laws, rules, regulations, etc. were observed.

Reference to Laws, Rules, Regulations etc.	Non-compliance
(a) Section 11 of the Finance Act, No. 38 of 1971.	Even though money should be invested with the approval of the Minister given with the concurrent of the Minister of Finance, it had not been so done in connection with the investment amounting to Rs.20,000,000 made by the Institute as at the end of the year under review.

- |   |   |
|---|---|
| (b) Paragraph 08 of Chapter xxvii of the Establishments Code of the Universities and the Public Administration Circular No. 41/90 of 10 October 1990. | The fuel consumption of motor vehicles should be carried out by competent Engineer and the results of the tests should be recorded in the Motor Vehicle Log Books and the Summary Report. If there are variances, those should be investigated. Nevertheless, tests of fuel consumption of 04 motor vehicles of the Institute had not been carried out.           |
| (c) Financial Regulation 371(2) of the Democratic Socialist Republic of Sri Lanka and the Manual of Management Rules for University Employees.        | Even though the ad - hoc sub-impressts granted should be settled immediately after the completion of the purpose, advances amounting to Rs.114,000 granted in the year 2012 had not been settled even by the end of the year under review, while 24 advances amounting to Rs.1,030,000 had been settled after delays ranging from 01 month, 10 days to 07 months. |
| (d) Paragraph 9.9 of the Public Enterprises Circular No. PED/12 of 02 June 2003.  | Even though all particulars of overtime payment should be report to the Board, it had not been so done in connection with the overtime payments amounting to Rs.1,224,297 made in the year under review.  |
| (e) Paragraph 02 of Treasury Circular No. 1A1/2002/02 of 28 November 2002.  | A Register of Fixed Assets had not been maintained for the computers.   |

#### 2.2.7 Transactions not Supported by Adequate Authority

- (a) According to the Public Enterprises Circular No. 95(2) of 14 June 1994, the payment of allowances to the staff of the University for working in the centres in the University should be made with the approval of the Cabinet of Ministers, the Ministry of Public Administration and the Treasury and according to letter No. PE/1/174/1-2003 dated 29 January 2003 of the Ministry of Finance, payment of fees/ incentives/ allowances should not be made without the approval of the Treasury. Nevertheless, a sum of Rs.1,081,241 as allowances for carrying out co-ordination work of the Institute and Rs.54,471 as honorarium allowances had been paid in the year under review without such approval.
- (b) Even though expenditure amounting to Rs.18,778 exceeding the estimated provision received for 03 research Projects had been incurred, the approval for that had not been obtained and those balances had not been settled even by 20 June 2013.

- (c) According to the Public Administration Circular No. 6/2010 of 07 June 2010, payment at Rs.12 per kilometre should be made for a petrol motor vehicle. Nevertheless, payment at Rs. 25 per kilometre had been made to the officers, thus resulting an overpayments totalling Rs.67,914 in the year under review.
- (d) Contrary to the letter No. PE/1/174/11(b) dated 10 March 1978 of the Director General of Public Enterprises, the allowance for proficiency in the second and third languages amounting to Rs.254,710 had been paid to 04 officers from the year 1997 to 2012.

### 3. Financial Review

#### ----- Financial Results -----

According to the financial statements presented, the working of the Institute during the year ended 31 December 2012 had resulted in a surplus of Rs.12,490,263 before taking into account the Government grant for recurrent expenditure and after taking into account the Government grant of Rs.10,500,000 that surplus had improved to Rs.22,990,263. The corresponding surplus for the preceding year before taking into account the Government grant for recurrent expenditure amounted to Rs.1,810,880 and after taking into account the Government grant of Rs.19,184,072 received for the recurrent expenditure, that surplus had improved to Rs.20,994,952. The financial result for the year under review after the adjustment of the Government grants as compared with the preceding year had increased by Rs.1,995,311. The increase of the interest income for the year under review by a sum of Rs.4,713,344 as compared with the preceding year had been the main reason for that increase.

### 4. Operating Review

#### ----- 4.1 Performance -----

According to Section 9 of the Postgraduate Institute of Science Ordinance published in the Gazette Extraordinary No. 06/1 dated 09 February 1996 twenty persons had been appointed to the Board of Management. Even though 04 meetings of the Board of Management had been held in the year 2012, 09 members had not attended all four meetings while 05 members had not attended three meetings and four members had not attended 02 meetings.

#### 4.2 Management Inefficiencies

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The following observations are made.

- (a) Even though lapsed deposits should be credited to public revenue in terms of Financial Regulation 571(2), such action had not been taken in connection with Science and Library deposits amounting to Rs,887,500 older than 10 years.
- (b) Non-refundable deposits totalling Rs.1,178,388 recovered for the use of laboratories by the students who had followed the courses during the years 2000 to 2005, had not been settled by adjusting to the Fund of the Institute even by the end of the year under review.

#### 4.3 Transactions of Contentious Nature

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Even though a sum of Rs.7,500 recovered from each student for research work and spent on research work, a research balance amounting to Rs.3,037,690 relating to the years 2000 to 2011 had been inappropriately shown under the deposits without being adjusted to the Fund of the Institute.

#### 4.4 Idle and Underutilised Assets

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Thirty Six Research Projects totalling Rs.3,801,064 remained inactive over a number of years and action had not been taken either for the implementation of the Projects or for the settlement of the respective balances.

#### 4.5 Lands not Acquired Properly

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Action had not been taken for the transfer of the land on which of Institution is situated.

#### 4.6 Staff Administration

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The following observations are made.

- (a) The approved cadre of the Institute stood at 38 and 12 vacancies existed even up to 20 June 2013.
- (b) Contrary to Section 9.10 of the Public Enterprises Circular No. PED/12 of 02 June 2003, two officers had been recruited on contract basis and paid salaries amounting to Rs.136,450 in the year under review.

#### 5. Accountability and Good Governance

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##### 5.1 Internal Audit

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The following observations are made.

- (a) Even though an Internal Audit Programme had been prepared for the year 2012, the following areas had not been subjected to audit.
  - (i) Examination of Cash and Bank Reconciliations
  - (ii) Examination of Payments
  - (iii) Examination of Revenue
  - (iv) Budgetary Control
  - (v) Examination of Accounting Systems
  - (vi) Examination of Supplies and Services
  - (vii) General Administration
  - (viii) Office Evaluation
- (b) The copies of Internal Audit Reports had not been furnished to the Auditor General in terms of Financial Regulation 134(3).

## 5.2 Budgetary Control

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The following observations are made.

- (a) According to Section 5.2.4 of the Public Enterprises Circular No. PED/12 of 02 June 2003 the approval of the Board of Management for the draft budget should be obtained 03 months prior to the beginning of the financial year. Such approval for the budget for the year 2012 under review had not been obtained. The copies of the budget had not been furnished to the Auditor General in terms of Section 5.2.4 of the above circular.
- (b) The budget had not been used as an instrument for achieving the long term goals of the Institute as spelt out in the Corporate Plan and as a working document to achieve the targets set for itself in the year ahead in terms of Section 5.2 of the Public Enterprises Circular No. PED/12 of 02 June 2003.
- (c) Even though provisions totalling Rs.5,110,000 had been made for expenditure under 03 objects, no expenditure whatsoever had been incurred there during the year under review. Comparison of the budgeted income and the actual income revealed over provision of income amounting to Rs.6,202,000 and under provision of income amounting to Rs.2,549,511. As such the budget had not been made use of as an effective instrument of financial control.

## 6. Systems and Controls

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Deficiencies in systems and controls observed during the course of audit were brought to the notice of the Director from time to time by my reports. Special attention is needed in respect of the following areas of control.

- (a) Accounting
- (b) Fixed Assets Control
- (c) Conduct of Workshops and Short Term Courses

H.A.S. Samaraweera  
Auditor General

Replies to Audit Queries

Audit Query: CL/KD/J/DE/PGIS/2013/26

2.2.2 Sri Lanka Accounting Standard.

- (a) Action will be taken to disclose the relevant policy in the Financial Statements since next year onwards.
- (b) After disclosing in the financial statement 2011, since we have adopted a different depreciation policy from 2012, depreciation had not been over calculated. Further, in terms of the Sri Lanka Accounting Standard 16, provisions have been made to change the existing effective life span in order to determine an appropriate accounting policy to the institution for the purpose of maintain a best accounting practice. (Annex 01)

2.2.3 (a) Annual reports pertaining to the years 2010 and 2011 were presented in 2012 and as such, the relevant expenditure has been brought to accounts as an expenditure for the year 2012. Since the annual report relating to a particular year is presented in the following year such expenditure is considered as an expenditure of the year during which the said report is furnished.

- (b) Since request for the relevant expenditure was not received until the completion of the preparation of final accounts we did not received an opportunity to make allocations. Therefore, our strict attention will be focused in this connection in future. The allocation amounting to Rs.1,353,000 made as lecture fees during the year under review being inadequate this situation cropped up
- (c) Action will be taken into rectify this matter in future
- (d) Action will be taken into rectify this matter in future.
- (e) This request for the lecture fees was not received until the finalization of the preparation of final accounts and it resulted in this situation. Therefore, our strict attention will be focused in this connection in future.
- (f) These requests for the payments applicable to the evaluation of answer papers were not received until the finalization of the preparation of final accounts and it resulted in this situation. Therefore, our strict attention will be focused in this connection in future.

- (g) These requests for the payments applicable to the charges due to be paid as attendance and secretary allowances to the academic staff were not received until the finalization of the preparation of final accounts and it resulted in this situation. Therefore, our strict attention will be focused in this connection in future.
- (h) Since the charges for the academic staff should be paid whenever they were requested, they have been stated under the current liabilities. Further, this amount is a payment to the academic staff but not an income of the institute. Therefore, stating it under the current liabilities will be accurate and as such, your attention in this connection is further requested.
- (i) The number of students participated in the short term courses being extremely indefinite, the preparation of expenditure estimate finds extremely difficult. As these courses are conducted for a short term of 02 or 03 days, instead of accrual basis, financial basis was utilized for this purpose with the approval of the Audit since inception of the Institute. It has been stated under the financial policies in the financial report as well. The short term courses specified herein were conducted for the Government institutions viz Department of Irrigations, Water Board and Sri Lanka Army respectively and the delays occurred in the receipt of money resulted in this situation. Therefore, action will be taken to minimize the recurrence of this situation in future. Accordingly, issue of taking into accounts the expenditure and the income within the relevant period itself may not arise.
- (j) The reply given in the (i) above is applicable.
- (k) The reply given in the (i) above is applicable.
- (l) The reply given in the (i) above is applicable
- (m) The reply given in the (i) above is applicable
- (n) The reply given in the (i) above is applicable
- (o) The reply given in the (i) above is applicable
- (p) The reply given in the (i) above is applicable

2.2.5 (a) The whole assets of the institute were revalued by the Department of Valuation in 2011 and we have already furnished all the details on the assets referred to such revaluation to audit. Although the Department of Valuation had issued the actual revaluated value of the relevant items of assets, breakups of the assets relating to such items had not been given as yet. However, by adding the value of the items purchased after 2011 with the value given by the Department of valuation, the relevant figure can be found(Annex 02). Therefore, your kind attention in this connection is further requested. Moreover, the motor vehicle observation report is also attached herewith. (Annex- 03)

(b) Since these reports are in the possession of Dr.JagathGunathilaka, the person who execute the project, he has been instructed to submit them directly to audit.

2.2.6(a) A request has been referred to the General Treasury seeking approval in this connection. Arrangements are being put in place to hold discussions with the Treasury on the aforesaid request. (Annex-04)

(b) Section 2.2 of paragraph IX

We obtained service of the lecturers on visiting basis. Therefore, our institute does not have any permanent lecturer except for the Director and the Senior Lecturer. Under such circumstance, institute is not in the position of crediting 10 per cent of the money received by a visiting lecturer to the consolidated fund. Nevertheless, 10 per cent or 16 per cent from the payments made in respect of lectures are deducted as PAYE Tax and send to the Inland Revenue Department monthly. This matter was lengthily discussed at the Audit Committee meeting. Accordingly, your attention is further requested in this connection.

Section 08 of paragraph XXVII

Fuel consumption test had been properly done during the year 2007 while such test had been done in 2012 by the institute. Arrangements are now in progress to carry out fuel consumption test for the year 2013. An effort was made to obtain assistance of the Engineering Faculty of the University of Peradeniya for this purpose, but proved no success. Subsequently, the second attempt made to seek assistance of the Agriculture Engineering Division too, ended in smoke.

Therefore, we admit that there is a delay in this connection and by now this fuel consumption test has been carried out through the Department of Agriculture.(Annex 05)

Financial Regulations 371.

The sum of Rs33,960, that was paid to the United Motors, is in no way an advance. We have made this payment to United Motors company, until the invoice is received after ascertaining the precise payment due in respect of an urgent repair carried out by the above company to a vehicle belonging to our institute, for its technical fault occurred on its return journey from the Ministry of High Education, as it was not released until due payment is settled. We had no, but this option at that juncture. Since this matter was lengthily discussed at the Audit Committee meeting held on 27 June 2013, your attention is further requested in this regard.

Financial Regulations 371 (2)

- (i) In addition to the Director, there is only one officer at the executive level (senior Assistant Registrar) entitled to grant advances in our institute. However, we fulfilled the responsibility of granting all advances required for the affairs of the institute without delay. An advance amounting to Rs.15000 had only been granted to a female officer holding the post of Computer Application Assistant in one instance during the year 2012, as the Senior Assistant Registrar was on leave during the days on which such advance was due to be granted. We wish to inform that we ensure the prevention of such incidents in future.
- (ii) We admit that certain delays had taken place in the settlement of advances due to some practical grounds. We have already taken action to avoid this condition. Since we have decided to send a reminder in writing after the expiry of 14 days from the date of receiving the advance, we believe that, this situation can be minimized in the days to come.

Financial Regulation 371-(4)

An estimated amount required for the relevant purpose is granted as an advance in this manner and incidents of this nature occurred when the estimated amount differs from the actual condition under extraordinary and unavoidable circumstances. For an instance, a sum of Rs.160,000 was obtained in order to make payments for 40 members at a rate of 4,000 per member in respect of the meeting of the Board of Management. Nevertheless,

all the members had not participated in this meeting and it resulted in a difference. Further, it is an unavoidable circumstance. Two advances amounting to Rs 160,000 and an advance of Rs. 100,000 mentioned herein had been obtained for the meetings of the Board of Management.

Paragraph 9.9 of PED/12 dated 02 June 2013.

- (e) Action will be taken accordingly since next year.

Circular No. IAI/2002/02 dated 28 November 2002 of the Secretary of the General Treasury.

Even though maintenance of a register of this nature finds difficult with the limited number of employees of the institute, action will be taken with regard to this matter in future. Nevertheless, we have a separate computerized register of fixed assets.

- (f) Continuous and long standing trade union action taken by the staff during the relevant year has contributed to this situation. We are confident that, these type of situation will not arise in future.

2.2.7 (a) The Post Graduate Institute of Science is an institution with an independent administration established by a separate Act. This institute has been established within the University so as to enable the institute to obtain service of the Doctors and Professors of the University. Apart from the Director, only a single senior lecturer is employed in the academic staff of the institution. Had the service of the visiting lecturers was not obtained, not even a single course could be conducted in the institute. Further, when provisions have not been made by the Circulars of the University Grants Commission to make such payments required to maintain the institute, the Board of Directors of the institute are empowered to take decisions for that purpose. Provided that, we have already referred letters seeking approval of the Line Ministry and the General Treasury for this purpose.

- (b) This disclosure is correct. Action will be taken to make recovery from the relevant researchers and remove them from the relevant accounts on the instruction of the Board of Management.

(c) Not only the routine affairs but workshops etc. are also conducted during Saturdays and Sundays. Therefore, the visiting of the Electronic Engineer is essential and in receiving his service, his visiting on Saturdays and Sundays on which higher participation of the Post Graduate Students for the lectures are recorded is of paramount importance. The Board of Management has granted approval to pay an allowance to him for this purpose. The GIS Laboratory and the Computer Laboratory being equipped with outstanding facilities students as well as staff utilize these laboratories. Therefore, the service of the Computer Engineer is essential. Recruitment of an officer with engineering qualification is an extremely hard task and a period of two years had to be spent for the selection of qualified person who is willing to serve on these salary scale. Therefore, obtaining this essential service without paying an allowance being impossible, a special letter requesting the approval for this purpose has been referred to the General Treasury through the Ministry. Necessary action will be taken to obtain such approval in due course.

(d) Resources contribution for these committees are made by a team of higher professional academicians in the island and they provide their service on a concessionary fees basis taking into consideration the need of the Nation. At least their fuel expenses are not reimbursed. Receiving their service to the institution will be impossible. Therefore, this payment has been made with the approval of the Board of Management. A special letter requesting the approval in this regard has been referred to the General Treasury through the Ministry. These payments are made only for external members who participate in the Board of Management.

03. Information stated are correct.

04) 4.1 During the period when the Board of Management consisted of 40 members their attendance had dropped. The number of members had been decreased up to 20 members on 25 April 2012 and thereafter that situation has been favourable. However, the trade union action of the academic staff which continued over a period of 04 months since May 2012 had resulted in a drop of the participation of the members until September 2012. Subsequently this situation has faded away,

- 4.2(a) Out of these Library deposits, the deposits which have exceeded a reasonable period of time will be brought as a revenue of the institute on the instructions of the Board of Management.
- (b) Out of these Laboratory deposits, the deposits which have exceeded a reasonable period of time will be brought as a revenue of the institute on the instructions of the Board of Management.
- 4.3 (a) These Bench fees are charge in respect of laboratories in which the students carry out their researches. At the request of the respective supervisors such money should be granted to each laboratory when requested. Therefore, these Bench fees has been shown under the current liabilities. However, action will be taken to forward this matter to the Financial Committee and to take more appropriate and required measures.
- (b) Since these courses are conducted for a very short period, lectures are conducted by the lecturers who are not in the permanent service of the institute. For the convenience of receiving and reporting information cash basis is adopted. Further, it has been recommended to us by the audit division . We have clearly disclosed that accounting policy in our Financial Statements. It should be noted that, even though the cash basis is followed, it does not pose a considerable effect on the financial policies. Provided that ,if the audit recommend to apply the accrual basis for the short term courses, action can be taken accordingly since ensuing year.
- 4.4. (a) This vehicle was received by the institute as a donation. However. the efficiency of the fuel consumption being very low use of this vehicle is not economical. Therefore, steps are being taken to auction this vehicle under the proper authorization.
- (b) Measures are already being adopted to settle balances of these research projects and we believe that,such settlements could be finalized within a very short period of days to come. We would like to place in record that, on the instruction of the audit, an immense number of balances of researches had been settled during the previous year and the year under review.
- 4.5 For the purpose of taking future action, this matter will be referred to the Board of Management.

4.6 (a)

As stated in the audit query, following steps have been taken in respect of the under mentioned unfilled posts. Even though the approved cadre of the institute is 38, in making recruitments to these post, special attention should be focused on the provisions taking into consideration the future existence of the institute. This is because more percentage of the total provision required for the wages are borne by the institute itself.

**Professors, Visiting Professors and Temporary Research Assistants.**

Even though the approval of the University Grants Commission has been sought to fill one post of Professor, one post of Visiting professor and 02 Posts of Temporary Research Assistant, such approval is yet to be granted.

**Technical Officer**

We have explained the procedure adopted in filling this post at the last COPE meeting. Since year 2008 having obtained approval of the Board of Management, applicants were selected once through an internal notification and three times from the lists issued by the Cabinet of Ministers and subjected them to the interviews. However, non of such applicants was qualified from these practical tests. Subsequently having obtained the approval of the University Grants Commission and the Ministry, applications were called by publishing a newspaper advertisement on 11.12.2011 and arrangements were made to conduct tests on 22.05.2012. However, since the selected candidate had undertaken another employment, he rejected assuming duties in this post. Thereafter, this matter was referred to the Board of Management and a decision was taken by the Board to make recruitment to the aforesaid post. Accordingly, in order to recruit qualified individual to this post name lists from the Cabinet of Ministers were obtained again and after checking application action will be taken to recruit a person who have satisfied the relevant qualifications.

**Library Assistant**

There is no library owned by our institution at present and provisions required for the establishment of a library or reading room have been requested by the corporate plane. Action will be taken to fill this post once the aforesaid matter was completed. Approval of the Management Services has already been granted for this post.

**Machine Operator**

This post is applicable in respect of Litho machines and Printing machines and these machines are not utilized in our institute at present. Taking copies is currently done by the labourers in this institution. Since a Computer Application Assistant is needed according to the present requirement of the office, approval of the University Grants Commission was sought to obtain a post of Computer Application Assistant instead of the two posts of Machine Operator and Labourer referred to in the cadre of the institute.

**Driver**

The bus owned by our institute was bought during the end of 2012. At present two drivers are engaged in the service of this bus. Action is being taken to expand the activities in accordance with our Corporate Plan and thereafter, action will be taken to fill the other post.

**Labourer**

With the retirement of Mr. Karunadasa, the person employed in the post of labourer, the number of vacancy in the post increased up to two. Action will be taken to make these recruitments of the service in future as per the requirement of the service. Approval of the Management Services has already been granted for this post.

- (b) Since 17 July 1998 Dr. N.C.Bandara has been rendering an outstanding contribution towards the academic affairs of both Post Graduate Institute of Science (PGIS) and University of Peradeniya. She had served as a Senior Lecturer, Grade II of the PGIS institute since 17 July 1998 up to 25 August 2000 on contract basis. She was appointed to this post for the purpose of filling the vacancy of Senior Lecturer in the PGIS institute.

Since 20 August 2000 she was appointed as Senior Lecturer Grade II on permanent basis. Even though her designation appears as Senior Lecturer/ Coordinator on her letter of appointment, it should have been specified as the Senior Lecturer, Grade II only. However, this was rectified on 24 April 2007. Depending on her conduct and the wealth of experience, she was promoted to the post of Senior Lecturer, Grade I on 24 August 2007. Then her designation had been noted as "Senior Lecturer, Grade I" on her letter of appointment. Dr.N.C. Bandara is presently serving in the PGIS institute as a Senior

Lecturer, Grade I. This appointment has been made under paragraph III-2 of the University Act. Further, the copies of all appointment letters issued to Dr.N.C.Bandara since year 1988 have been referred to the Auditor General.

It should be peculiarly noted that, her contribution towards the teaching, research activities and other assigned activities is at an outstanding level and it exceeds, undoubtedly, the average workload and working capacity of a senior lecturer.

Conducting lectures and tutorial classes, engaging in relevant examination activities and paper marking, training students for research activities, evaluation of post graduate dissertations and relevant viva voce, supervision and evaluation of seminars and presentations are among her academic activities. Preparation of question papers of the aptitude test conducted for the selection of post graduate students to the PGIS institute, conducting such tests and evaluation of their answer papers are also handled by her. She assists to settle issues and inquires of the students on the post graduate programme schedules and academic procedures. She involves in organizing and coordinating academic workshops of post graduate courses, post graduate certificate courses, short term courses and seminars. Compilation and editing of news errands and PGIS manuals and designing certificates, marking schemes and other formats relating to the M.Sc courses are some other activities which she performs. For the purpose of educating the people on activities such as PGIS graduate courses (M.Sc,M.phil,Ph.D) workshops and short term courses, preparation of various advertisements is also handled by her. She make arrangements to publish such advertisements on PGIS web page and newspapers and send to various institutions. Her contribution is also made towards the compilation of Corporate plans and strategic plans of the PGIS. Besides all the aforesaid activities, she engages in teaching activities in the Science Faculty of the University of Peradeniya. A summary of certain academic affairs, relevant time tables and other details of Dr.Bandara is attached herewith as No.05.

- (c) Stenographer Mr. Zeenar, who served in the Administration branch resigned from the service in December without giving any notification and we had no any successor to replace him. All the affairs of Administration branch are carried out by two clerks and a Computer Assistant and as such, non of them could be deploy to cover the duties of the post of Stenographer. Further, preparation of all minutes relating to the Board of

Management Committees, Coordinating committees, Financial and Audit committees applicable to this division and the relevant corresponding should be handled by a stenographer. In exigency of the service, Miss Puswella was selected to this post after being qualified from an examination and an interview conducted in accordance with the scheme of recruitment with the approval of the Board of Management. During this period we were taking action to recruit a permanent employee to this post. After the resignation of Ms. Puswella in order to carry out activities of the institution properly, until Mrs. S.R. Rasu, the selected employee to the permanent service assumes duties Ms. D.M.G.L. Dissanayaka was recruited on temporary basis with the approval of the Board. Once Mrs. S.R. Rasu, the selected employee to the permanent service reports to work this situation will return to normalcy.

4.7 A separate investment has been made for this purpose. The calculation of gratuity of the institution is carried out in the following year. Therefore, the relevant deposit had been updated in 2013.

5 **Accountability and Good governance.**

5.1 (a) As a result of issues arisen when checking accounts of the University of Peradeniya by the Committee On Public Enterprises on 20 September 2011, since Internal Audit Branch had to engaged in sending replies for the un-replied audit queries received by the University of Peradeniya during the year 2010 and involved in checking activities under the directives of the Vice Chancellor and the University Audit Committees until the end of November 2012, the internal audit branch could not carry out audit activities as per the above plans.

Inventory checking and petty cash checking had only been carried out in December.

(b) Internal Audit Report had not been furnished for the year 2012. Reports of the preceding years had been furnished to the Government Audit Division.

5.2 (a) As a result of the long standing strike staged by the academic staff during the previous year, meetings of the Board of Management could not be held and it resulted in this situation. It is our expectation that such a situation may not arise in future

- (b) We frequently attempt utilize the Annual Budget Report as an instrument so as to enable the achievement of long term objectives in terms of the Corporate Plan.
  - (c) As a results of the long standing trade union action taken by the academic and non-academic staff in the current year, any activities relating to these Objects could not be carried out. Therefore, no expenses had been incurred during the year under review.
6. Our special attention will be focused in this connection in future.