

**TECHNICAL EDUCATION QUALITY IMPROVEMENT  
PROGRAMME, PHASE II  
Sub Component 1.1**

**6<sup>TH</sup> MEETING OF THE BOARD OF GOVERNORS**

**DETAILED AGENDA NOTES**

**Date: 25-02-2013**

**Time: 9.30 a.m**

**Venue: Seminar Hall  
Administrative Block , GEC Idukki**

**GOVERNMENT ENGINEERING COLLEGE IDUKKI**

**PAINAVU P.O., IDUKKI-685 603 KERALA**

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**Background:**

This 6<sup>th</sup> meeting of the BoG is a regular meeting and is being convened to monitor the progress of the implementation of the TEQIP-II activities at GEC Idukki, under Sub component 1.1, with particular emphasis to the procurement and academic activities, and to accord the necessary approvals and clearance for the ongoing activities as required in the implementation guidelines of the Scheme.

The agenda items are given below

**Agenda Items**

<b>Part A Procedural</b>		
<b>S. No</b>	<b>Items</b>	<b>Page No.</b>
<b>A 1</b>	<b>Confirming the Minutes of the 5<sup>th</sup> Meeting of the Board of Governors held on 10-12-2013 at GEC Idukki</b>	
<b>A2</b>	<b>Report on the action taken/action pending on the pertinent decisions in the Minutes of the 5<sup>th</sup> Meeting of the Board of Governors held on 10-12-2013 at GEC Idukki</b>	
<b>A3</b>	<b>Cumulative list of the action taken/action pending on the various Board decisions in the past.</b>	

<b>Part B Discussion, consideration and Ratification</b>		
<b>S. No</b>	<b>Items</b>	<b>Page No.</b>
<b>B1</b>	<b>Consideration of the various procurement packages cancelled till date.</b>	
<b>B2</b>	<b>Consideration of newly created procurement packages</b>	
<b>B3</b>	<b>Consideration of the cancelled civil works and new proposals</b>	
<b>B4</b>	<b>Consideration of the procurement of MIS software and recruitment of temporary data entry operator for MIS office.</b>	
<b>B5</b>	<b>Consideration of the various academic programs for the next 3 months</b>	
<b>B6</b>	<b>Ratification of the various in house training programs for the faculty, technical staff and administrative staff.</b>	
<b>B7</b>	<b>Ratification of the various in house training programs for the students</b>	
<b>B8</b>	<b>Ratification of the various training program attended by faculty, Technical and administrative staff outside the institution</b>	
<b>B9</b>	<b>Ratification of the purchase of consumables and other minor items for the TEQIP office till date.</b>	

<b>Part C Reports</b>		
<b>S. No</b>	<b>Items</b>	<b>Page No.</b>
<b>C1</b>	<b>Status of fund position as on 25-02-2013</b>	
<b>C2</b>	<b>Status of the faculty position as on 25-02-2013</b>	
<b>C3</b>	<b>Status of the Construction projects as on 25-02-2013</b>	
<b>C4</b>	<b>Status of the new PG/UG programs as on 25-02-2013</b>	
<b>C5</b>	<b>Accreditation status of the UG programs</b>	

<b>Part D Any other item with the permission of the Chair</b>		
<b>S. No</b>	<b>Items</b>	<b>Page No.</b>
<b>D1</b>	<b>Other Items</b>	

**TECHNICAL EDUCATION QUALITY IMPROVEMENT  
PROGRAMME, PHASE II  
6<sup>TH</sup> MEETING OF THE BOARD OF GOVERNORS  
DETAILED AGENDA NOTES**

Part A

Procedural Items

**A1. Confirmation of the Minutes of the 5<sup>th</sup> Meeting of the Board of Governors held on 10-12-2013 at GEC Idukki**

The Minutes of the 5<sup>th</sup> Meeting of the Board of Governors of the TEQIP Phase II of GEC Idukki held on 10-12-12 at GEC Idukki was sent to the Chairman and upon his consent copies were circulated among the other members of the BoG. Comments received were well addressed. A copy of the Minutes is appended as Annexure A1 for confirmation.

BoG may consider the Minutes for approval.

**A2. Report on the action taken/action pending on the pertinent decisions in the Minutes of the 5<sup>th</sup> Meeting of the Board of Governors held on 10-12-2013 at GEC Idukki**

The decisions taken by the Board as recorded in the Minutes of the 5<sup>th</sup> Meeting of the Board of Governors of the TEQIP Phase II held on 10-12-2012 have been noted and actions have been initiated. A report on the action taken and actions pending is presented in the table A2.1 given below.

**Table A2.1**

<b>Sl. No</b>	<b>Decision Item</b>	<b>Action Taken</b>
1	To collect feedbacks of the training programs from the participants and to call GECI faculty participants to make brief presentations of the content of the training program before the Principal and faculty colleagues to share the knowledge and feedback	A programme for the feedback presentations by the faculty members has been initiated, as per the directions of the BOG.. The program is named as “ <b>Faculty Experience Sharing after Training (FEST)</b> ”. Seven staff members have already presented the contents of their training program and the knowledge gained through their participation.
2	To plan an in-house course on <b>Visual communication</b> for the staff members.	Prof. Lakshmi J. Mohan, Head of the Department visited Surya TV, Ernakulam, and consented to offer a workshop at GEC Idukki during March 2013.
3	Organize more in house training programs for faculty, staff and students.	The following in house training programs were conducted for faculty and PG students. The duration, number of beneficiaries etc. are given in the Appendix B5 and Appendix B6. <ol style="list-style-type: none"> <li>1. Hands on Training program on computational tools for engineers by EEE department.</li> <li>2. Computer &amp; Network Security by IT Department.</li> <li>3. Modeling Object Oriented Systems using Rational Tools by CSE Department.</li> </ol> For the UG students following training programs were conducted <ol style="list-style-type: none"> <li>1. Concept to Project by ECE department.</li> <li>2. Free/Libre/Open Source Software (FLOSS) by IT department.</li> </ol>
4	Pre and post assessments are to be done for remedial classes.	The feedbacks from students have been collected.

5	Suggested that the classes for first year students may have to be shifted to the main academic block.	From December Second week, 2012 to January Second week 2013, first year classes have been shifted to main academic block (University Examinations for senior students).
6	The service of few selected PG students as guest lecturers for the conduct of remedial and GATE coaching classes.	Ten PG students are selected (Six from EEE and Four from CSE) and have conducted remedial and GATE coaching classes.
7	Soft skill training program for the students by M/s. FACE Cochin	As per the decisions, collected feedback reports from reputed institutions. Prepared detailed Terms of Reference (TOR) and submitted to SPFU for approval.
8	Suggested to set up a R&D centre for Solar energy/Renewable Energy at GEC Idukki	Received Solar panel and Solar simulator from IIT Bombay. Three PG and three UG projects are going on. The new proposals for the procurement of solar panels under TEQIP are included in the next agenda section for consideration.
9	Collaborative research with premier institutes and extends financial support for PG students to collect data or doing literature review.	It is proposed to submit proposals during the next semester

### **A3. Cumulative list of the action taken/action pending on the various Board decisions in the past.**

The pending actions on the various Board decisions in the past are presented in the table 3.1

**Table A3.1**

Sl. No	Pending Decision Item	Reason
1	Conduct diagnostic test for final year students to identify the weakness related to employability. (4 <sup>th</sup> BOG meeting on 17-09-2012)	The prolonged approval process for Service Procurement using PMSS (Procurement Management Support System)

Actions have been initiated on all other decisions of the past meetings and no other action is pending.

## Part B

### Items for Discussion, Consideration and Approvals

Sl. No	Items
B1	<p>Consideration of the various procurement packages cancelled till date. The details of cancelled packages and reason for cancellation are given in the <b>Appendix B1</b>.</p> <p><b>Decision needed:</b> The board may consider and grant necessary approval.</p>
B2	<p>Consideration of newly created procurement packages. NPIU and SPFU have given permission for revising the existing procurement plan. For setting up the laboratories for the PG programs and improving the learning faculties, few new packages have been proposed. The details are given in the <b>Appendix B2</b>.</p> <p><b>Decision needed:</b> The board may consider the proposal and give suggestions.</p>
B3	<p>Consideration of the cancelled civil works and new proposals. The reasons for cancellation and for new proposals are given in the <b>Appendix B3</b>.</p> <p><b>Decision needed :</b> The board may consider and grant necessary approval.</p>
B4	<p>Consideration of the procurement of MIS software and recruitment of temporary data entry operator for MIS office. For effective project implementation and effective project monitoring, NPIU proposed the following</p> <ol style="list-style-type: none"> <li>1. Under TEQIP Institutional unit, institution should have an MIS cell equipped with adequate full time staff i.e. at least 2, 1 MIS officer and other MIS data entry operator.</li> <li>2. For Government and Government aided institutions the salary of these persons may be booked under Incremental Operating Cost.</li> <li>3. Besides, Government and Government aided institutions may also procure the institutional MIS under the project for the activity Institutional Management Capacity Development.</li> </ol> <p><b>Decision needed:</b> The board may consider the proposal for recruiting one data entry operator and procurement of MIS software.</p>
B5	<p>The detailed proposal of academic activities planned for the next 6 months have been prepared. The proposal is placed in the <b>Appendix B4</b>.</p> <p><b>Decision needed:</b> The board may consider the proposals</p>
B6	<p>Ratification of the various in house training programs for the faculty, technical staff and administrative staff. The details are given in the <b>Annexure B5</b>.</p> <p><b>Decision needed:</b> The board may kindly ratify.</p>
B7	<p>Ratification of the various in house training programs for the students. The details are given in the <b>Appendix B6</b>.</p> <p><b>Decision needed:</b>The board may kindly ratify.</p>
B8	<p>Ratification of the various training program attended by faculty, Technical and administrative staff outside the institution. The details are given in the <b>Annexure B7</b>.</p> <p><b>Decision needed:</b>The board may kindly ratify.</p>
B9	<p>Ratification of the purchase of consumables and other minor items for the TEQIP office till date. The details of consumables and other minor items purchased are given in the <b>Appendix B8</b>.</p> <p><b>Decision needed:</b> The board may kindly ratify.</p>

**Part C**  
**Reports**

**C1. The status of fund position as on 25.02.2013**

The fund utilization status for the allotted 200 lakhs are presented in the table C1.1 given below

Sl. No	Activity/Category of Expenditure	Total Budget Provision out of Rs. 1000 lakhs	Provision out of 200 lakhs (Tentative)	Amount spent
1	Improvement in teaching, training and learning facilities	Lakhs	Lakhs	Lakhs
(a)	Equipment	400.00	80.00	37.72612
(b)	Furniture	20.00	8.00	4.28875
(c)	Books & LR's & Software	50.00	10.00	27.57782
(d)	Minor Items	10.00	1.00	0.04750
(e)	Minor Civil Works	50.00	10.00	0.00
(f)	Consultant Services	20.00	1.00	0.00
<b>Sub Total</b>		<b>550.00</b>	<b>110.00</b>	<b>69.64</b>
2	Providing Assistantship for increased enrolment in existing and new PG	100.00	2.00	0.0
3	Enhancement of R&D and Institutional Consultancy activities	20.00	2.00	0.0
4	Faculty and Staff Development (FSD)	100.00	34.00	9.43756
5	Enhanced Interaction with Industry	40.00	2.00	0.69914
6	Institutional Management Capacity Enhancement	30.00	3.00	2.04075
7	Implementation of Institutional Reforms	20.00	15.00	0.60674
8	Academic Support for weak students	40.00	14.00	1.46416
9	Incremental Operating Cost	100.00	20.00	4.73140
<b>TOTAL</b>		<b>1000.00</b>	<b>200.00</b>	<b>88.61994</b>

In addition to the above,

1. Committed an amount of **Rs. 52.72854 lakhs** ( Purchase order sent items)
2. For the imitated procurement an amount of **Rs.47.18450 lakhs** ( under pipe line)



## C2. The status of faculty position as on 25-02-2013

The faculty position as on 25-02-2013 is given in the table C2.1

**Table C2.1**

<b>Electrical and Electronics Department</b>				
	Sanctioned Nos.	Available Nos.	Vacancy Nos.	Qualification
Professor	2	1	1	Ph.D. 1
Associate Professor	4	0	4	
Assistant Professor	11	6	5	M. Tech 6
Contract Faculty		9		M. Tech 1 B. Tech 8
<b>Electronics and Communication Department</b>				
	Sanctioned Nos.	Available Nos.	Vacancy Nos.	Qualification
Professor	1	1	0	Ph.D. 1
Associate Professor	3	2	1	M. Tech 2
Assistant Professor	9	7	2	M. Tech 5
Contract Faculty		3		B. Tech 3
<b>Computer Science Department</b>				
	Sanctioned Nos.	Available Nos.	Vacancy Nos.	Qualification
Professor	1	1	0	Ph.D. 1
Associate Professor	2	0	2	
Assistant Professor	7	5	2	M. Tech 3 B. Tech 2
Contract Faculty		4		B. Tech 4
<b>Information Technology Department</b>				
	Sanctioned Nos.	Available Nos.	Vacancy Nos.	Qualification
Professor	1	0	1	
Associate Professor	2	0	2	
Assistant Professor	7	6	1	M. Tech 6
Contract Faculty		4		B. Tech 4
<b>Mechanical Engineering Department</b>				
	Sanctioned Nos.	Available Nos.	Vacancy Nos.	Qualification
Professor	0	0	0	
Associate Professor	2	2	0	Ph.D. 1 M. Tech 1
Assistant Professor	5	3	2	Ph.D 1 M. Tech 1 B. Tech 1

Contract Faculty		1		B. Tech 1
<b>Civil Engineering Department</b>				
	Sanctioned Nos.	Available Nos.	Vacancy Nos.	Qualification
Professor	0	0	0	
Associate Professor	0	0	0	
Assistant Professor	3	2	1	M. Tech 1 B. Tech 1
Contract Faculty		1		B. Tech 1
<b>Applied Science Department</b>				
	Sanctioned Nos.	Available Nos.	Vacancy Nos.	Qualification
Assistant Professor	7	4	3	M. Sc. 4
Contract Faculty		3		M. Sc. 3

**Principal's remarks on the academic progress:**

### **C3. Status of the Construction projects as on 25-02-2013**

The status of civil works is shown in the table C3.1 below. The works highlighted here are inclusive all construction activities undertaken and those are progressing in the campus, and not the works financed under TEQIP alone. The matter is reported for favour of information

**Table C3.1**

<b>Sl. No.</b>	<b>Name of work</b>	<b>Estimate amount (in lakhs)</b>	<b>Current status</b>
1	M. Tech Class rooms	20	Completed
2	Compound wall	146	Completed
3.	Internal road	50	Completed
4.	Academic Block-II	346	85% completed, Can be commissioned by December 2013
5.	Men's Hostel	226	90% completed, Can be commissioned by June 2013
6.	Ladies Hostel	279	25% completed
7.	Staff Hostel	205	85% completed,
8.	Staff quarters	345	60% completed, Can be commissioned by June 2013
9.	Academic Block-I	512	20% completed
10.	Internal earthen road, surface pavement and side protection	106	95% completed

### **C4. Status of the new PG/UG programs as on 25-02-2013**

<b>S.No.</b>	<b>Name of the program</b>	<b>Current Status</b>
1	M. Tech in Power Electronics and Control	This program has commenced during the academic year 2011-12 with an intake of 18 students; now total students strength is 36.
2	M. Tech in Computer Science and System engineering	This program has commenced during the academic year 2012-13 with an intake of 18.
3	M. Tech in VLSI Design	AICTE approval has been obtained, and approval from MG university awaited
4	M. Tech in Information Technology	Applied to AICTE and MG university for approval
5	B. Tech in Mechanical Engineering	AICTE approval has been obtained.

### **C5. Accreditation status of the UG programs**

The accreditations of all eligible UG programs are mandatory for the project institutions. The institution has already prepared a draft Self Assessment Report (SAR) and presented before the meeting held on 02-01-2013 at DTE, Thiruvananthapuram. Based on the suggestions of the meeting, the institution again modified the SAR. The documentation work is progressing.

BoG may give directions on the measures to be taken to expedite the process and also suggest a time line for submitting the application for accreditation.

### **D1 Any other item with the permission of the Chair**

## Annexure B1

### Cancelled Packages

<b>Information Technology</b>					
S. No	Name of the Package	Items in the package	Quantity (Total)	Total actual Package amount	Reason for Cancellation
1	ServerD1	Server	1	6,20,000	Lack of responsive vendors
<b>Computer Science and Engineering</b>					
S. No	Name of the Package	Items in the package	Quantity (Total)	Total actual Package amount	Reason for Cancellation
1	Server Racks	24 Port Manageable Switch	1	1,50,000.00	Insufficient Valid Quotations
		27U 19" Rack	2		
		27U 19" Rack with KVM Switch	1		
		6U 19" Wall mount Rack	1		
2	MultimediaC1	2GB DDR3 RAM	10	97,000.00	Insufficient Valid Quotations
		Wireless Adapter	10		
		Multimedia Kit	10		
		External HDD 1 TB	10		
<b>Electronics and Communication</b>					
S. No	Name of the Package	Items in the package	Quantity (Total)	Total actual Package amount	Reason for Cancellation
1	DSO A3	60 MHz DSO	15	2155000	Reinitiated as two packages as one NCB of DSO only and analog oscilloscope as a second package. Supplier may not quote Analog and Digital Oscilloscope together.
		100 MHz DSO	11		
		Isolated DSO	1		
		Analog oscilloscope	25		
2	Function Generator&Multi meterB7	Arbitrary 1 channel function generator	1	290600	Unable to find out the quality suppliers with all 3 items as a single package
		Arbitrary 2 channel function generator	1		

		Digital multi meter	2		
3	Microwave Test BenchB6	Microwave Test Bench	1	120000	Insufficient quotations received
4	On table Shielding Cutting Machine	On table Shielding Cutting Machine		500000	Rapid prototype machine already purchased, and hence this item is not in priority now.
5	Development Board B4	Microcontroller development board	18	1620000	Difficult to get quality supplier for all 3 items together. Hence separating the items in the package, package has to be cancelled.
		DSP development board	18		
		FPGA development board	18		
<b>Electrical and Electronics Engineering</b>					
S. No	Name of the Package	Items in the package	Quantity (Total)	Total actual Package amount	Reason for Cancellation
1	TachmeterA19	Digital Tachometer, contact less	10	50,000.00	Valid Quotation Amounts Exceeded 25% of the Package Amount- To be reinitiated
2	ControlKitA13	PLC Trainer kit	5	160,000.00	Valid Quotation Amount Exceeded 25% of the Package Amount – to be reinitiated
		Renewable Energy Developers kit	2	72,000.00	
		Low voltage Brushed DC and Stepper Motor Control Kit	2	90,000.00	
		F 28035 Controller Based High Voltage PFC and Motor control Developer's kit	2	51,000.00	
3	DigitalMultimeter A9	Digital Multi meter	10	120,000.00	To be reinitiate with adding Digital Multi meters for EC department
4	DevelopmentBoardA10	Universal Development Board	10	350,000.00	Sufficient Quotations not Received

<b>Institute Purchase</b>					
S. No	Name of the Package	Items in the package	Quantity (Total)	Total actual Package amount	Reason for Cancellation
1	Library Books	Books		667345	Insufficient valid quotations
2	Computer Furniture IN	Computer Table	50	400000	Purchasing under State Govt. Fund
		Chair	50		

## Annexure B2

### New Proposals for revising the Procurement plan

<b>Computer Science and Engineering</b>						
SR. No	Name of the Package	Items in the package	Quantity (Total)	Total actual Package amount	If institutional Purchase, give department share	Name of the laboratory for which items procured
1	Laptops	Core i5 based laptop	20	92400		PG Lab/Class
2	Software	Windows 8	55	521000	16	Department Computer Centre
		Visual Studio	5		5	
		Windows 2012 Server	1		1	
		MS Office Pro	10		2	
		MS Project	1		1	
3	Hardware Tools	PC Diagnostics Kit	1	110000	1	Department Computer Centre
		Network Multi meter	1		1	
		WiFi Tester	1		1	
4	ACM2014	ACM for year 2014		600000		Department library
5	Case tool Software	IBM Rational Rose	2	700000	1	PG Lab CE UG Lab IT
6	Microprocessor Kits and Interfacing Boards*	8085 Kits	20	385000		UG Lab
		Stepper Motor Control	5			
		Traffic Control	5			
		ADC/DAC	5			
		8051 Kits	5			
<b>Institution</b>						
1	Campus Management Software	MIS Software	1	450000	To be shared by all Departments	Institution
2	Learning Resources	Library	18	900000		Institution
3	Survey Equipments	Various Survey Equipments		128450		Civi;



4	Solar panel 100W, MNRE approved, Efficiency > 15%	Solar panel	10	70000		
5	5KW Solar PV System, 240V, Battery 12V, 150 AH, 20 Nos. GEL type, 10kVA inverter	PV System	1	1000000		
6	White board	ceramic magnetic white board 6 X 4	8	64000	2 each for all 4 departments	NA
7	projector screen board	Pull down white projector screen board 6 X 4	8	40000	2 each for all 4 departments	NA
<b>Electronics and Communication</b>						
1	Analog oscilloscope	Analog oscilloscope	30	900000	ECE 20 (600000)	Circuits Lab
					EEE 10	
2	Digital multimeter	Digital multimeter	10	200000	ECE 10(73000)	Circuits Lab
		Digital multimeter	10		EEE 10	
3	Microcontroller development board	Microcontroller development boards For different microcontrollers	18	900000	NA	PG lab
4	DSP development board	development boards with code composer studio	20	400000	NA	PG lab
5	FPGA development board	FPGA nano boards	16	800000	NA	PG lab
6	Keil C Professional Developers Kit	Keil PK-51 With 25 User License	1	270000	NA	Systems Lab
<b>Electrical and Electronics Engineering</b>						
1	Capacitive Load	Capacitive Load	2	60000		UG and PG Power Electronics Lab

2	DSPACE R&D Controller Board	DSPACE : ACE Kit 1104	1	550000		
3	Real-Time Data Acquisition System	Real-Time Controller Model : NI cRIO-9024	1	239200		
		Compact RIO Reconfigurable Chassis Model : NI 9112	1	77700		
		Power Supply for controller	1	13100		
		Desktop Mounting Kit	1	3000		
		Analog Input Module	2	61600		
		Analog Output Module	1	49300		
		Bidirectional Digital I/O Module	3	16600		
		Terminal Block for Digital I/O module	1	6000.		
		Ethernet Cable	1	1600.		
RS 232 Cable	1	2200.				
<b>Information Technology</b>						
1	Antivirus	McAfee Endpoint Security Suit for Nodes 3 year and ePO Installation Charges	1	110000	NA	All Labs in the Department
2	Barcode Reader	DOMO nCode LSR 619 Barcode Reader	4	12000	NA	Central Computing Facility
3	USB FINGER PRINT	Digital Persona Fingerprint Reader	2	11000	NA	
4	Digital Pen	Staedtler Digital Pen	4	40000	NA	
5	Web Development Application	Adobe Dreamweaver CS6	1	20000	NA	Software Lab

### Annexure B3

#### Approved Civil Work Packages

SI No	Package code	Package name	Estimated cost	Item name	Item cost	Remarks
1	TEQIP-II/KL/KL1G03/43	Extension and Rebuishment work IT1	1100000	Reorganizing multimedia lab	500000	To be initiated Estimation under progress
				Setting of Dept. library	300000	Cancelled - Merged with package of Baatery room (No.41) for IT Dept. as the first floor of battery room is proposed for use as Dept. Library.
				Reorganizing microprocessor lab	300000	To be initiated Estimation under progress
2	TEQIP-II/KL/KL1G03/41	Battery room IN1	300000	Battery room for UPS 200sqft	300000	Cancelled - Merged with package of Library for IT Dept. as the first floor of battery room is proposed for use as Dept. Library.
3	TEQIP-II/KL/KL1G03/39	Extension server room CS1	150000	Setting of server room for installation of servers, networks	150000	Pending
4	TEQIP-II/KL/KL1G03/38	Extension work EE1	550000	Converting existing room to dept. computer centre	550000	To be initiated Estimation under progress
5	TEQIP-II/KL/KL1G03/42	Battery room electrification IN2	250000	Electrification for refurbished UPS room	250000	To be initiated Estimation under progress

6	TEQIP-II/KL/KL1G03/44	Electrification IT2	300000	Eelctrification of extended dept. library and reorganized	150000	To be initiated Estimation under progress
				Electrification of rennovated software	150000	To be initiated Estimation under progress
7	TEQIP-II/KL/KL1G03/45	Refurbishment and extension EC1	900000	False ceiling, tiling, networking etc	350000	To be initiated Estimation under progress
				Setiing of Dept. library	550000	To be cancelled - Anticipated space not available as civil works are delayed
8	TEQIP-II/KL/KL1G03/40	PG room extension CS2	1200000	PG class room and lab extension	1200000	To be cancelled - work to be done using alternate govt. funds
9	TEQIP-II/KL/KL1G03/46	Bio gas plant	250000	Bio gas plant for	250000	Pending
			5000000	Total (Rs)	5000000	
<b>ITEMS TO BE CANCELLED</b>						
SI No	Package code	Package name	Estimated cost	Item name	Item cost	Remarks
1	TEQIP-II/KL/KL1G03/43	Extension and Rebuishment work IT1	1100000	Setting of Dept. library	300000	Item in this package costing Rs 3 lakhs alone cancelled and that item is combined with Pacakge 41
2	TEQIP-II/KL/KL1G03/41	Battery room IN1	300000	Battery room for UPS 200sqft	300000	Because of the modification in the package 43, one more item is included in this package. Hence due to this modification, new package costing 6 lakhs created

7	TEQIP-II/KL/KL1G03/45	Refurbishment and extension EC1	900000	Setting of Dept. library	550000	To be cancelled - Anticipated space not available as civil works are delayed
8	TEQIP-II/KL/KL1G03/40	PG room extension CS2	1200000	PG class room and lab extension	1200000	New PG rooms constructed using STATE fund
Total (Rs)					2350000	
<b>ITEMS TO BE INCLUDED</b>						
Sl No	Package code	Package name	Estimated cost	Item name	Item cost	Remarks
1	IT	Battery Room and Department Library IT	600000	Battery room for UPS 200sqft	300000	To be re initiated as the Quotations received are dubiously locked at the same figure of Rs. 700000/-
				Setting of Dept. library	300000	
2	CS	Electrification CS/EE	350000	Electrification and networking of PG Room Extension	350000	PG class rooms need to be made smart, providing each student with internet connection
3	IN	Innovation Centre	200000	Refurbishment of flooring, partitions and electrification	200000	To provide a space for students to experiment with their innovative ideas

4	IN	Refurbishment of Laboratories EC	1000000	Changing roofing sheets and damp proofing	1000000	There is a pressing need for renovation of leaking roofs of the block accommodating various laboratories
5	IN	Rainwater Harvesting	200000	Construction of collection tank and laying pipes	200000	The institute faces shortage of water during the height of summer. Water available in plenty during monsoon can be stored
			2350000	Total (Rs)	2350000	

## Annexure B4

### Academic Activities for the Next Six Months

<b>1. Enhanced Interaction with Industry</b>		
UG/PG internship, Short term program with industry, expert lectures arranged from industry	IIC Coordinator	By June 2013
<b>2. Academic Support to weak students</b>		
Remedial classes for First year students of disadvantaged backgrounds	Prof. Jose V.Eapen (EAP member)	By May 2013
Remedial classes for higher semester students	Prof. Josna (EAP Nodal Officer)	By May 2013
One High intensity soft skill training program for passed out students	Placement Officer	By July 2013

#### Planned activities are given below

#### Computer Science and Engineering

Actions	Who	By When
Computer Networking (In house training program)	Prem Kumar, Unnikrishnan	March 2013
Mobile Applications Using Android (In house training program)	Sobhana N V, Philumon	March 2013
Procurement of PC Hardware and Network analysis tools	Philumon Joseph	May 2013

### Electrical and Electronics Department

Actions	Who	When
Organizing Short Term Course on Labview	Prof. Harikumar	June 2013
Organization of Short Term Course on Embedded Systems	Dr, Jayanand B	June 2013
Project on Inverter Efficiency using Spectrum Analyser procured under TEQIP	Dr. Jayanand B	April 2013
Short term course on Solar Photovoltaic Cells	Prof. Harikumar	June 2013

### Information Technology Department

Actions	Who	By When
Workshop on Communication Technology	Prof. Lakshmi J Mohan	Before May 2013
Starting a FLOSS(Free/Libre/Open Source Software) Cell	Josna V R, Assistant Professor Remesh Babu K R, Assistant Professor	February 2013
One day workshop on Video Editing	Prof. Abey K Jose, Prof. Vigil Kumar V.V.	March 2013



## Electronics and Communication Department

Actions	Who	By When
Workshopn on Digital Design Using VERILOG and implementation using FPGA	Prof. Amby A K and Prof. Premson	April 2013
Training in Rapid Printed Circuit board Prototyping Machine	Prof. Sinith M S & Prof Anu George	March 2013
Workshop in Microcontrollers and its Application	Dr. Thajudin Ahamed V. I. & Prof. Premson Y	March 2013
Workshop in Project Development & Product Design	Dr. Thajudin Ahamed V. I. & Prof. Sivakumar R	March 2013
Seminar session on Collaboration between Industries and Scientific Organisations	Dr. Thajudin Ahamed V. I. & P rof. Sreekumar R.	April 2013

## Annexure B5

### Govt. Engineering College Idukki

<b>In-house Training Programs for Faculty in Subject Domain</b>					
Sl.No	Name of the Program	No. of Days	No. of Baneberries	Man days	Amount Spent Rupees
1	Hands on Training program on computational tools for engineers	5	7 External 23 Internal	150	60000.00
2	Computer & Network Security	5	5 External 15 Internal	100	90000.00
3	Modeling Object Oriented Systems using Rational Tools	5	1 External 26 Internal	135	80000.00
4	Training program on "Moodle"	1	20 Internal	20	440.00

<b>In-house Training Programs for Technical Staff</b>					
Sl.No	Name of the Program	No. of Days	No. of Baneberries	Man days	Amount Spent Rupees
1	PC Trouble Shooting	3	22 Internal	66	14155.00
2	English Communication using language lab	4	5 Internal	20	25614.00 **

<b>In-house Training Programs for Administrative Staff</b>					
Sl.No	Name of the Program	No. of Days	No. of Baneberries	Man days	Amount Spent Rupees
1	Training program on DDFS	3	22 Internal 3 External	75	13615.00
2	English Communication using language lab	4	5 Internal	20	** Joint Program

## Annexure B6

### Training Programs for the Students

<b>Enhanced interaction with Industry</b>						
Sl.No	Name of the Program	Venue	No. of students benefited	Duration days	Man days	Amount Spent Rupees
1	UG Students attended industrial internship	BSNL Trivandrum	15	6	90	63885
<b>Diagnostic Test for First year Students</b>						
Name of the Subjects			No. of students attended		Amount Spent	
Mathematics			220		Nil	
Physics			220			
English			220			
Analytical Skill			220			

<b>Bridge Courses</b>			
No. of Subjects	No. of students participated	Man days	Amount Spent
Mathematics, English, Physics	200	200	3305

<b>Remedial Classes</b>			
Name of the subjects	No. of students participated	No. of Days	Amount Spent
Basic Electronics, Engineering Graphics, Basic Mechanical Engineering, Mathematics, Engineering Mechanics, Basic Electrical Engineering, Basic Civil Engineering	100	10	24150

<b>Specialized soft skills and professional skills development for increasing employability</b>				
Name of the Program	No. of Students trained	Duration in days	Man days	Amount Spent
Android Training Program	30	3	90	76092
Personality Development Program	40	3	120	16970
Microprocessor based system design	60	3	180	32858
Concept to Projects	60	1	60	6000
Free/Libre/Open Source Software (FLOSS)	120	1	120	20000
Networking	30	1	30	1000

**Annexure B7**  
**Training program and Conferences attended by Faculty, Technical and Administrative staff**  
**April 2012- February 2013**

SL No	Name of Person	Name of Course	Place & Date	Amount ₹
01	Shri.ShibuKumar K B Assistant Professor CSE	Short term course on “8051 Micro Controller and Embedded Systems”	IIT at Khargpur on 11.06.2012 to 16-06-2012	35636
02	Harikumar, Assistant Professor EEE			
03	Shri.Vigil KumarV. V, Assistant Professor IT	Network Administration : Configuring LAN and WAN	ESCI Hyderabad 16 to 20 July 2012	85074
04	Shri. Finny George Computer Programmer IT			
05	Shri. Prem Kumar M P Computer Programmer CSE			
06	Dr.Thajudheen Ahamed V I , Prof. in Electronics & Communication Engineering Department	Training programme on Renewable Energy Conference, Energy Alteratiopn India	Chennai- July 26 and 27	19314
07	Harikumar R Assistant Professor EEE			
08	Shri. Jaya Prasad VA Trade Instructor Gr. II	Training Programme on Linux Network Administration	ESCI Hyderabad 10-14 September 2012	124896
09	Rajeev N , Trade Instructor Gr. II			
10	Joseph O T, Trade Instructor Gr. I			
11	Manoj A P, Computer Programmer			
12	Shri.K R Remesh Babu Assistant Professor IT	Conference on “Task Scheduling Using ACO-BP Neural Networks in Computational Grids”	03 to 05 August 2012 RMK Engineering college Chennai.	11365
13	Shri. M S Sinith AP Assistant Professor ECE	International Conference on Computing and Communications (ICACC 2012)	9-11 August 2012- Cochin	20461

14	Dr.Thajudheen Ahamed V I , Prof. in Electronics & Communication Engineering Department	Training programme on “Solar Photovoltaic Field Engineers”	ESCI Hyderabad 10-14 September 2012	75000
15	Harikumar R Asst. Prof. in Electrical and Electronics Engineering Department			
16	Abhilash Suryan,Asst.Prof.in Mechanical Engineering Department			
17	Shri. Sunil Kumar AP in EEE	Presenting Paper titled Stability Analysis scheduled in the Dynamic Segment of Flex ray Protocol	28.07.2012 SNS College of Engineering , Coimbatore	2500
18	Shri. Vigeesh Kumar Tradesman in IT	Online Training programme on “SW302-Advanced course in .NET Technologies”	3 months course	27000
19	Shri. Arun S Trade Instructor IT			
20	Shri.Finny George Computer Programmer in It			
21	Dr. Sajith P P, Professor, Mechanical	Short term Course on Effective Leadership and Team work	27 to 28 IIT, Khargpur	5000
22	Smt. Lakshmi J Mohan Assistant Professor IT	Training Programme on “Network Security Administration”	19to 23 Nov 2012 ESCI Hyderabad	99596
23	Smt. Josna V R, Assistant Professor IT			
24	Shri. Remesh Babu Assistant Professor IT			
25	Shri. Jomy Thomas Assistant Professor Civil	Training Programme on Management Development on Stastical Modelling Data Analysis Programme SMDA 2012	10-15 dec 2012 IIT Kharagpur	49610
26	Shri. Jinesh N Assistant Professor ME			
27	Smt. Shobana N V Professor CSE	Training Programme on Management Development on Stastical Modelling Data Analysis Programme SMDA 2012	10-15 Dec 2012 IIT Kharagpur	31621
28	Shri. Rendir R Prasad Assistant Professor IT	Paper Presentation on Ontology based spatial clustering Frame work Implicit	7 <sup>th</sup> to 9 <sup>th</sup> Dec Rajagiri College of Enginnering Kochi	8500

		knowledge		
29	Shri. Rendir R Prasad Assistant Professor IT	Paper Presentation on Ontology based spatial clustering Frame work Semantic Resolution Geospatial Query at CUSAT	27 to 29 Nov 12 , CUSAT Kochi	11000
30	Shri. Remesh Babu Assistant Professor IT	Paper Presentation on Design of Metacrawler for Web Document retrieval at Kochi	27 to 29 Nov Kochi	11355
31	Shri. Premsen Assistant Professor ECE	Short term course on VLSI signal processing	IIT Khargpur 20 -24 December 2012	28000
32	Rezuana Assistant Professor ECE			
33	Dr. Sathikumar R. Principal	Short term course on Strategic Human Resource Management	ASCI Hyderabad 7 – 11 January 2013	90731
34	Dr. Sajith P P Professor, ME			
35	Shri. Remesh Babu Assistant Professor IT	Workshop on Quality initiative in Technical & higher Educational Institutions	ESCI Hyderabad 28-31 January 2013	77674
36	Prof. Ramesh A Associate Professor ME			
37	Dr. Jayanand B Professor EEE			
38	Prof. Binoj Kumar Assistant Professor, EEE			
39	Shri. Anoob Sebastian Assistant Professor CE	Short term training program on “Advanced Concrete Technology” at	Mar Athanasius College of Engineering Kothamangalam 8 <sup>th</sup> – 15 <sup>th</sup> December 2012	3778
40	Smt.Shobhana Professor CSE	Training program on INDICON IEEE Conference	07 to 09 December 2012 Cochin	7795
41	Shri.Sudin. S Assistant Professor, Maths	Training program on Effective Coaching & Mentoring	ASCI Hyderabad 4-8 Feb 2013	108344
42	Prof. Anu George Assistant Professor ECE			
43	Smt. Babitha Mathews Assistant Professor, P.Edn.	International Conference on Yoga and Youth	27 -30 December 2012 Pune	10318
44	Shri. Hareesh R Nair	Training program on Fiber Optic Systems and Cable Splicing	BSNL, TVM 14-19 January 2013	20223 ( advance request)
45	Smt. Sree Divya R S	Paper presentation on Online extrusion alert aggregation using Genetic	HIDS at J J College of Engg. Nattakam	3000 ( advance request)

		Algorithm in	1- 3 March 2012	
46	Shri. Shijin Knox G U Assistant Professor IT	Professional Development program on Cloud Computing	ESCI Hyderabad 05-07 Feb 2013	30510 (advance Request)
47	Sri. Randhir R Prasad Assistant Professor IT			
48	Sri. Shaji Mon UD Clerk	Life skill development	GEC Thrissur 27 <sup>th</sup> to 29 <sup>th</sup> December 2012	4412
49	Sri. T.R. Ajayan			



## Annexure B8

Purchase of Consumables and Minor items for TEQIP Phase II

Govt. Engineering College Idukki

April 2012 to February 2013

Sl. No	Name of the item	Expense ₹	Proceedings No & Date
1	Consumables ( paper file, power strip etc)	3398	TEQIP / 2601/12 dt.18.05.12
2	Postal Stamp, cash book, Stationary ( A3 paper, seal, paper file)	4767	TEQIP / 2918/12 dt.26.07.12
3	Tonner Refilling	7817	TEQIP / 2600/12 dt.21.08.12
4	Consumables( A4 paper, gum, stapler, pin)	1740	TEQIP / 2600/12 dt.06.11.12
5	Postal stamp	2000	TEQIP / 2600/12 dt.01.12.12
6	Data card and mobile	6293	TEQIP / 2600/12 dt.21.12.12
7	Printing charge of News letter	3850	TEQIP / 2600/12 dt.11.01.13
8	Charges of Mobile phone & Data card	2637	TEQIP / 2600/12 dt.21.01.13
9	Stamp & Consumables ( paper, file board etc)	4000	TEQIP / 2600/12 dt.28.01.13
10	Purchasing cost of on line UPS	20176	TEQIP / 2600/12 dt.24.01.13
11	Consumables for IT Department	5000	TEQIP / 2600/12 dt.11.02.13
	Total	61678	

**MINUTES OF FIFTH MEETING OF THE BOG**

**GOVT. ENGINEERING COLLEGE IDUKKI, PAINAVU**

**(SELECTED UNDER SUB-COMPONENT 1.1 OF TEQIP PHASE – II)**

**Date:** 10.12.2012

**Venue:** GEC Idukki, Painavu

**Time:** 0930 hours

**Members present**

1. Dr. A. Veeraragavan, IIT Madras, Chennai
2. Prof. Narayanan K, Director, SPFU, Kerala
3. Dr. Abraham T. Mathew, NIT Calicut
4. Shri. Mohammed Sherif, Joint Secretary, Higher Education, Govt. of Kerala
5. Dr. R. Sathikumar, Principal
6. Dr. P.P. Sajith, TEQIP Coordinator
7. Dr. B. Jayanand, Financial Nodal Officer
8. Prof. Sumesh Divakaran, Faculty Nominee
9. Prof. Lakshmi J. Mohan, Procurement Nodal Officer

Dr. A. Veeraragavan, Chairman, Board of Governors presided over the meeting.

The items as per the agenda note were taken for discussion and approval.

**Minutes**

**Item No.1: Confirmation of the minutes of the fourth meeting of the BOG held on 17-09-2012.**

The minutes of the BOG meeting held on 17-09-2012 was read and confirmed. No Comments were received.

**Item No.2: Training programs attended by the faculty, staff and students during the period September 2012 to December 2012 and feedback.**

Meeting approved the various training programs that were attended by faculty, staff, and students as per the presentation by the Principal. The list attached in the **Annexure I** was seen and noted. Based on the suggestions of the members, the following decisions were taken:

1. To collect feedbacks of the training programs from the participants and to call GECI faculty participants to make brief presentations of the content of the training program before the Principal and faculty colleagues to share the knowledge and feedback.
2. To plan an in-house course on **Visual communication** for the staff, in addition to the subject-oriented courses currently being organized (for value addition in the Course Information Technology). The course shall help in making the attendees to know the current technology in ICT and Visual Media. Visiting of TV channels or uses of the service of visual communication personnel are recommended.
3. To impart training to all staff members in the institution.

*[Action: Academic Nodal Officer]*

**Item No.3: Training programs organized by the faculty members during the period September 2012 to December 2012 and feedback of the participants.**

Meeting approved the various in house training program organized by faculty as per the presentation made by the Principal. The list is attached in **Annexure I**. The members suggested the following:

- Organize more in house training programs for faculty, staff and students, so as to enable them to keep abreast of the recent developments also converting the location disadvantage into an opportunity.

*[Action: Academic Nodal Officer]*

**Item No.4: Result analysis of S1, S2, S4 and S6 semesters and remedial measures based on diagnostic test.**

- a. Members appreciated the Analysis of the Diagnostic Test arranged for the first year students conducted on 13-09-2012. Members also appreciated the remedial measures arranged for the students based on the test results.

- b. The BOG members insisted that both pre and post assessments are to be done for remedial classes, facilitating evaluation of the effectiveness of the remedial class. The report may be presented to the next BOG, for further directions, if any.
- c. Members suggested giving due attention and care to the students of first year through hand holding measures. To facilitate these, the members suggested that the classes for first year students may have to be shifted to the main academic block, at the earliest possible.
- d. In view of the deficiency of staff available for remedial classes as reported by the Principal, the BOG approved the proposal to avail the service of few selected PG students as guest lecturers for the conduct of remedial and GATE coaching classes. The remedial classes shall be handled after the regular working hours of the institute and on holidays. The expert committee constituted by the Principal will select the PG students, (after giving enough publicity for the same, so that that all eligible can apply) for the said purpose based on an interview on subject knowledge and teaching abilities. The remedial and GATE coaching classes will be planned without affecting the academic work of PG Students. The payment for the services made shall be booked under EAP.

*[Action: Academic Nodal Officer]*

**Item No.5: Procurement Status**

Principal presented the status of the procurement activities as per the approved plan and the members suggested speeding up the procurement process. BoG appreciated the efforts being taken by the College in expediting the procurement and effective utilization.

*[Action: Procurement Nodal Officer]*

**Item No.6: Training Need Analysis (TNA) plan for the staff members up to March 2013**

BOG approved the TNA plan proposed by the Principal. The list is attached in the **Annexure II**.

**Item No.7: Soft Skills training programs for the benefit of the students**

The meeting discussed the proposal for conducting soft skill training program for the students by M/s FACE, Cochin. The training modules and proposal attached as the **Annexure III** were seen. The BOG approved the proposal subjected to the following conditions.

1. Collect minimum four feedback reports of similar training programs conducted by the firm from established and reputed institutions like, CET, TKM, RIT, CUSAT or GEC Kannur etc.
2. Submit the feedback reports, Terms of reference and the detailed proposal to SPFU for approval under “Service Procurement through PMSS”.

*[Action: TEQIP Coordinator, Procurement Nodal Officer]*

**Item No.8: R&D Activities**

Members suggested measures for improving in the R&D activities of the institute through TEQIP grants.

- i. Suggested to set up a R&D centre for Solar energy/Renewable Energy at GEC Idukki.
- ii. Collaborative research with premier institutes like IIT, IISc, NIT etc.
- iii. Extend Financial Support for PG students to collect data or doing literature review as part of research projects at prestigious institutions like IIT, IISc and NIT.

*[Action: TEQIP Academic Coordinator]*

-X-X-X-