Darbhanga College of Engineering, Darbhanga, Bihar
TEQIP-III
Minutes of the 10th Meeting of the Board of Governors
held on 24.02.2020

The 10th meeting of the Board of Governors (BoG) of Darbhanga College of Engineering, Darbhanga was held on 24.02.2020 on the College campus. The following members were present in the meeting:

Sl. No.	Name	Email id and Mobile no.	Designation
1.	Prof. Manas Bihari Verma Former (Distinguished Scientist DRDO; Director ADA, Programme Director, LCA Bangalore; Chairman, BoG, NIT Patna)	mbverma@rediffmail.com Mob: 9934663428	Chairman
2	Shri Bhanu Pratap Singh SPA, Bihar SPIU, Taramandal, Patna, Bihar	spa.bihar.teqip@gmail.com 9415436559	Member
3.	Shri P.K. Sinha Co-founder and Director, Astric Computer (1) Pvt. Ltd., Patna	prabhat.sinha@astric.in Mob : 9431017775	Member
4.	Dr. Raman Kumar Jha, Head, Dept. of Mathematics, DCE, Darbhanga	rkjhabce1985@gmail.com Mob: 9931823653, 7549289065	Member
5.	Prof. Achintya Principal, DCE, Darbhanga	dcedbg@rediffmail.com Mob: 9835050340	Member Secretary

Special Invitee:

1. *Dr. M A Mokhtar*
   TEQIP Coordinator, DCE, Darbhanga

2. *Dr. Puja Kumari,*
   R&D Coordinator, DCE, Darbhanga

The Following members could not make it convenient to attend the meeting of BoG at DCE, Darbhanga.

1. Director,
   Department of Science and Technology, Patna, Bihar

1

2. Prof. Madan Kumar Jha
   IIT Kharagpur, Kharagpur

3. Nominee of Aaryabhat Knowledge University
   Mithapur, Patna, Bihar

4. Shri Om Prakash Kheria
   Industrialist, Darbhanga, Bihar

5. Prof CP Singh
   Asoc.Prof. DCE, Darbhanga

Professor Achintya, Principal and Member Secretary, BoG, Darbhanga College of Engineering, Darbhanga welcomed the Hon'ble Chairman and all the Hon'ble Members of the BoG to the 10th Meeting of the BoG on TEQIP – III Project.

Agenda 1: Discussion and approval of the minutes of 9th BoG meeting

The meeting started off with the discussion on the Minutes of Meeting (MoM) of the 9th Board of Governors (BoG) meeting held on 09.12.2019 and the MoM of the 9th BoG was approved by the Chairman after the unanimous decision taken by the Hon'ble Members of the BoG. There were some suggestions on the (Action Taken Report (ATR) which are to be followed in the following Quarters.

Agenda 2: Review of the Action Taken Report (ATR)

Sl.No.	Proposal/ Commitment	Action Taken
1	Payment of Rs. 1,18,94,850/- (Rupees One Crore Eighteen Lakh Ninety Four Thousand Eight Hundred and Fifty) only towards procurement of 150 computers for the Institute.	Completed
2	Plan and Organize a National/International Conference by Summer 2020.	DCE is planning to organize a National conference in the month of July.
3	Open Student Chapter in Professional Organizations	More than 900 students are registered into NDL and have a separate account to use the facilities available through NDL.

2

		such NDL, IE(I)	
4		Maintenance of inventory with indexing of the procured items.	Physical verification of the procured items is complete. Indexing is to be done before March 2020.
5		Industry visit for students	Head of the departments are given this responsibility. They will soon plan and execute such industry visits for the students. HoDs were requested to submit their proposal by 8th March. 2020
6		Presentation on IGIS	The representative of the supplier is ready for the presentation. An appointment will be taken from the Hon'ble Chairman for the same.
7		Request for additional fund to relocate into the new building	Additional funding of Rs. 1 to 2 crore shall be requested from NPIU after discussion with SPIU.
8		Appointment of a library-technician On-Contract basis.	One library Technician (B.Tech) is appointed under apprenticeship scheme.

The BoG gave following suggestions/recommendations:

1. The balcony adjacent to computer lab on the 1st floor of the main building of DCE, Darbhanga can be extended in order to protect the procured items, under TEQIP-III, from environmental hazards such as dust storm, rain etc. The expenditure for this work should be less than Rs. 5,00,000/- (Five Lakhs) and can be booked under IOC head "Operation and Maintenance of Equipment; 1.1.3.2".

   It was further decided by the BoG that the Principal, DCE, Darbhanga would examine the proposals for rennovation of the balcony space and its proper utilization.

   The expenditure proposal be accordingly prepared and put up in the next meeting of the BoG, DCE, Darbhanga.

2. For the industry visits, it is recommended that the students should be asked where they want to go for the industrial exposure. A student advisory cell may be formed for their inputs on various such occasions.

3. The responsibility is given to Head of the departments to submit a detailed plan of the Industrial visits for students. They are further advised to prepare a draft letter requesting

3

various industries to allow students visits. They should now start sending the letters to various industries for their consent.

4. A new building for DCE, Darbhanga is going to be handed over in the month of March 2020. The BoG members including SPA, Bihar agrees to make a request to NPIU for additional fund of 1 to 2 crore for the relocation of entire setup especially lab equipment, furniture etc. procured under TEQIP-III to the new building. Further, the additional fund could be used for the purchase of some more infrastructure such as library furniture, auditorium facilities etc. as per the requirements in new building.

5. BoG members recommended to start cataloguing of books in the library into the procured software E-Granthalaya.

6. Library Technician may be allowed to attend orientation program or any workshop related to library management/work.

7. IGIS software and other procured softwares should be utilized in the projects of pre final year and final year students. Faculty are advised to encourage students to use these softwares in their projects. Faculty should take initiatives and make proposals for the projects related to these softwares and involve students to work upon it.

Agenda 3: Presentation and discussions on the progress at DCE, Darbhanga after 8th BoG meeting.

A. **Under Train-The-Trainer program following Faculty members have attended or will be attending the Training on Future Skill technologies at IITs**

- **Block Chain Technology** at IIT Hyderabad during 16th to 20th Dec 2019. **Punam Prabha**

- **Robotics & Automation** at IIT Madras during 17th - 28th Feb 2020. **Madhav Ram, Ravi Kumar**

- **Robotics & Automation** at IIT Kanpur during 17-28 Feb 2020. **Dr. Ravi Ranjan**

- **Internet of Things (IoT)** at IIT Bombay during 24th - 28th Feb 2020. **Shakti Prasad Senapati**

- **Robotics & Automation** at IIT Roorkee during 1st - 15th March 2020. **Diwakar Verma**

- **Robotics & Automation** at IIT Guwahati during 3rd - 13th March 2020. **Tabish Shanu, Mukesh kumar**

- **3D Printing** during 16th - 21st March at IIT Hyderabad.

Navdeep Pandey.

- **Artificial Intelligence & Machine Learning** during 7th to 17th April 2020 at IIT Indore. **Akhil Mohammad KK**

NPIU has issued a circular **NPIU/TEQIP-III/Acad/2020/492, dated 07-02-2020** about the guidelines for the conduction of students training at all TEQIP Institute.

BoG members agree with the guidelines issued by the NPIU and instructed that it should be followed. It is further advised to the faculty that they should make a presentation before the faculty members and the relevant students within one week of their return from the training. This will help students decide if they want to get trained on these topics. The trained faculty must follow the guidelines issued by NPIU and make a detailed plan for the training to students.

B. The Principal apprised the Board that a total of 19 students got placed so far in the session 2019-2020 through pool campus drives organized by AKU at Patna on various occasions. Hon'ble members of the BoG appreciated the achievements.

C. The Principal apprised the Board that DCE has signed MoUs with seven companies and the efforts are on to further increase the numbers. The BoG members suggested to approach some manufacturing units where our students can get trainings and exposure of recent technologies being used in the industry.

D. Activities carried out under twinning arrangement with IIT Patna

- One faculty has attended workshop on Computer and Forensic at IIT Patna from 16-12-2019 to 20-12-2019.

- Two faculty have attended Short Term Course on Recent Trends in Friction Stir Processing Technique (RTFSP2019) at IIT Patna from 18-12-2019 to 20-12-2019.

- Around 110 students have participated in TechGyan at IIT Patna from 19-10-2019 to 20-10-2019.

- IIT Patna faculty have visited DCE, Darbhanga and covered 10% syllabus on one subject from each branch. The recently covered subjects are as follows.
    - ✓ Signals and System
    - ✓ Microprocessor
    - ✓ Introduction to Communication System
    - ✓ Analogue Electronics
    - ✓ Chemistry (1st Year)

The Hon'ble members of the board appreciated the efforts and developments.
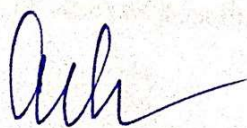
E. The Principal apprised the board that DCE, Darbhanga has successfully organized a workshop on robotics and Drone technology from 21-01-2020 to 25-01-2020. The details of the event are as follows.

Event name	Workshop on Robotics & Drone Technologies
Date	20/01/2020 – 25/01/2020
Venue	Darbhanga College of Engineering
Projects trained	• Humanoid • Drone/UAV(Unmanned Aerial Vehicle) • Robotics • Gesture Control Robot • IOT Home Automation • Line Following Robot
Service provider	Nwing Aviations, New Delhi
No. of resource persons	6
No. of participants	130
Total Expenditure	Rs. 5,16,191/-

F. The Principal apprised the Board about the Communication English Training (17.02.2020 to 23.02.2020) for first year students.

- A 30 hours English Language Training is just concluded for 1st year students for all the branches.

- The next 30 hrs training will be done by our own faculty who got trained under train-the-trainer program.

- The training followed Pre-Assessment Test, Training, Post- Assessment Test.

- Students are trained to undertake KET (Key English Test) for the certification.

- The certification will be done by Cambridge English which will be recognized globally.

- The training was provided by DCATS Patna which is an authorised centre of Cambridge English Language Assessment Exams.

- The conduct and facilitation of the certification exam was included under the contract.

The Hon'ble members appreciated the efforts and development.

6

Agenda 4: Approval on the proposed Action plan for Quarter 01 (Apr. to Jun. 2020)

A. Reference: Annexure- I. Action_Plan_Q1 (Apr. to Jun. 2020), The BoG has discussed the Action Plan for Q1 (Apr. to Jun. 2020) and approved the Action Plan.

Agenda 5: Approval on academic activities for Quarter 01 (April – Jun, 2020)

A. Post facto approval on faculty attending various conferences.

- Dr. Geevarghese V Jacob,

  Title of accepted paper: Enhanced Interfacial Electron Transfer Resistance by Changing The Position of Substituent of Bridging Terpyridines.

  International Conference on Advanced Materials and NanoTechnology (AMN 2020). 20-22 January, 2020. JIIT, Noida, UP

  Total estimated budget INR 20000/- (Twenty Thousand only)

- Dr. Abhishek K Singh,

  Title of accepted paper: On The Electrical Characterization of Focused Ion/Electron Beam Fabricated Platinum and Tungsten Nanowires.

  International Conference on Advanced Materials and NanoTechnology (AMN 2020). 20-22 January, 2020. JIIT, Noida, UP

  Total estimated budget INR 20000/- (Twenty thousand only).

B. **Approval on faculty attending conferences**

- Akhil Mohammad KK,

  Title of the paper: Trajectory tracking and stabilization control of a 4-DOF ball balancer system. International Conference on Computing Communication and Engery Systems (ICCCES 2020, 26-27 February, Kerela.
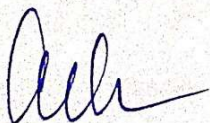
  Total estimated cost INR 4000/-

The Hon'ble members of the BoG approves the budget for all three cases.

C. A three day National Conference will be organized in the first week of July 2020.

  Estimated budget: 15-20 Lacs.

The Hon'ble members of the BoG approves the budget and advised to notify the conference details as soon as possible, preferably before 15th March 2020.

7

Agenda 6: Presentation and discussion on the overall Procurement status.

A. The NPIU has directed to complete the procurement by March 2020. The funds related to procurement will be available only till March 2020.

B. The Procurement status of DCE, Darbhanga on 24-02-2020.

Total Allocation: Rs. 6.0 Crores

Expenditure status on procurement:

SN	Head: Name	Expenditure (Rs.)
1	1.1.1.1: Equipment	4,09,70,167
2	1.1.1.2: Learning Resources	1,34,66,260
3	1.1.1.3: Furniture	36,20,020
4	1.1.1.4: Minor Civil Works	3,80,026
	TOTAL	5,84,36,473

Balance: Rs. 15,63,527

Pending Payment for UTM (not delivered): Rs. 14,29,500
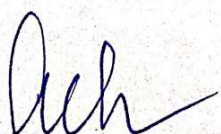
Remaining 10% of CE Package P3: Rs. 32,870

Remaining 10% of CE Package P7: Rs. 15,696

Remaining 10% of Generator: Rs. 64,900

Total: Rs. 15,42,966

With the payment of Rs. 15,42,966 corresponding to four purchases, the allocation for Procurement will be utilized completely.

The Hon'ble members of the BoG appreciated the efforts and advised to complete the remaining procurement by March 2020.

8

Agenda 7: Approval of the Expenditure made under TEQIP-III up to 19-02-2020.

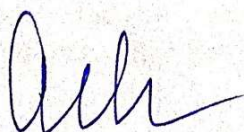**Reference:** Annexure-II (Expenditure report)

Summary of the expenditure upto 19-02-2020 is given in the table below.

SN	Head: Name	Expenditure (Rs.)
1	**PROCUREMENT (Total allocation: 6 Cr.)**	5,84,36,473
2.	**ACADEMIC (Total allocation: 3 Cr.)**	1,95,06,448
2.1	**1.1.2.1: Improve Students Learning**	96,41,349
2.2	**1.1.2.2: Research Assistantship**	0
2.3	**1.1.2.3: Graduate Employability**	35,17,194
2.4	**1.1.2.4: Faculty and Staff Development and Motivation**	20,85,226
2.5	**1.1.2.5: Research and Development**	21,500
2.6	**1.1.2.6: Moocs and Digital Learning**	35,260
2.7	**1.1.2.7: Mentoring / Twinning System**	2,33,728
2.8	**1.1.2.8: Reforms and Governance**	31,57,489
2.9	**1.1.2.9: Management Capacity Development**	1,60,273
2.10	**1.1.2.10: Hiring Consulting Services**	0
2.11	**1.1.2.11: Industry-Institute-interaction**	6,54,429
	Sub Total of academic expenditure (2.1 to 2.11)	1,95,06,448
3	**OPERATING COST (Total allocation: 1 Cr.)**	45,35,798
	TOTAL	8,24,78,719

Total Allocation (10 Crore): 10,00,00,000

Balance: 1,75,21,281

The BoG has approved the expenditure made under TEQIP III upto 19.02.2020.

Agenda 8: *Request to propose to DST, Bihar for the retention of TEQIP Faculty.*

We have total 47 Faculty at DCE, Darbhanga. The details are as follows

SN	Department	Intake per year	Sanctioned post (Year 2008)		Actual status	
					Regular	TEQIP
	DCE, Darbhanga		PRINCIPAL	1	1	NA
1	Mechanical Engineering	60 (Total 240)	Professor	1	0	0
			Asoc. Prof.	2	1	0
			Lecturer	8	2	7
2	Electrical & Electronics Engineering	60 (Total 240)	Professor	1	0	0
			Asoc. Prof.	2	0	0
			Asst. Prof.	9	2	10
3	Computer Science & Engineering	60 (Total 240)	Professor	1	0	0
			Asoc. Prof.	2	0	0
			Asst. Prof.	7	2	5
4	Civil Engineering	60 (Total 240)	Professor	1	0	0
			Asoc. Prof.	2	0	0
			Asst. Prof.	7	2	6
5	Mathematics		Professor	1	0	0
			Asoc. Prof.	1	0	0
			Asst. Prof.	4	1	1
6	Physics		Professor	1	0	0
			Asoc. Prof.	1	1	0
			Asst. Prof.	4	0	2
7	Chemistry		Professor	1	0	0
			Asoc. Prof.	1	1	0
			Asst. Prof.	4	0	2
8	English		Asoc. Prof.	0	0	0
			Asst. Prof.	2	0	1
			TOTAL	**64**	**13**	**34**

The work done by the TEQIP-III faculty are appreciable and hence Hon'ble chairman of the BoG urge to allow them to continue their services at DCE, Darbhanga after September 2020. The Hon'ble members unanimously gave consent to send a letter to DST, Bihar requesting them to accommodate or retain them so that the undergoing developments can be sustained.
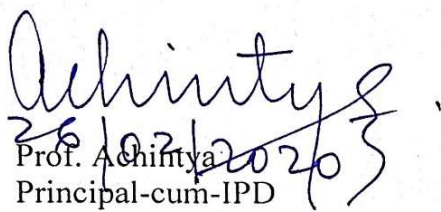
Other suggestions and recommendations:

1. Each faculty must prepare a file which will contain the academic/non-academic/administrative work done by them monthly.
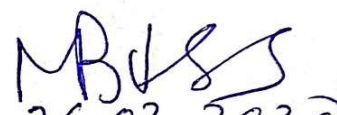
2. To prepare a request letter to CIPET Hajipur, TRC-Patna and other for the details by which manner they can contribute in academic/industrial trainings.

3. A detail guideline for equipping manpower for running KYP program may be requested from DST, Bihar.

4. A detail of internet requirement has to be prepared and submitted by the concerned authority.

The 9th BoG concluded with the above suggestions to be implemented in the following Quarter. The Chairman thanked the members for attending the meeting and putting forth their valuable suggestions and inputs. He also thanked the Principal for arranging the meeting as well as for the hospitality.

The meeting concluded with a delivery of vote of thanks to the honorable Chairman.

Prof. Achintya
Principal-cum-IPD
TEQIP-III,
DCE, Darbhanga

26.02.2020
Prof. Manas Bihari Verma
Chairman,
Board of Governors,
DCE Darbhanga