Darbhanga College of Engineering, Darbhanga, Bihar TEQIP-III

Minutes of the 14th meeting of the Board of Governors held on 13.03.2021

The 14th meeting of the Board of Governors (BoG) of Darbhanga College of Engineering, Darbhanga was held on 13.03.2021 on the College campus. Due to Covid-19 pandemic, an online platform for attending the meeting is also provided to the Hon'ble members of the BoG. The following members attended the meeting.

SN	Name	Email Id and Mobile no.	Designation	Attended
1.	Prof. Manas Bihari Verma	mb_verma@rediffmail.com Mob: 9934663428	Chairman	In-Person
	Former (Distinguished Scientist DRDO; Director ADA, Program Director, LCA Bangalore; Chairman, BoG, NIT Patna)	<u>1000. 9934003426</u>		
2.	Shri P. K. Sinha	prabhat.sinha@astric.in	Member	Online
	Co-founder and Director, Astric Computer (1) Pvt. Ltd., Patna	Mob: 9431017775		
3.	Prof. Madan Kumar Jha	madan@agfe.iitkgp.ac.in	Member	Online
	IIT Kharagpur, Kharagpur	Mob: +91-3222-283116		
4.	Er. Rajeev Ranjan Controller of Examination, AKU, Patna	rrnitp@gmail.com Mobile 8102926977	Member	Online
5.	Dr. Raman Kumar Jha,	rkjhabce1985@gmail.com	Member	In-Person
	Head, Dept. of Mathematics, DCE, Darbhanga	Mob: 9931823653, 7549289065		
6.	Shri. Shyam Sundar Choudhary	Shyams_choudhary@redif	Member	In-Person
	Head, Dept. of Civil Engineering,	<u>fmail.com</u>		
	DCE, Darbhanga	Mob.: 6206189090		
7.	Prof. Achintya	dcedbg@rediffmail.com	Member	In-Person
	Principal, DCE, Darbhanga	Mob: 9835050340	Secretary Secretary	

Special Invitee:

- 1. Dr. M A Mokhtar TEQIP Coordinator DCE, Darbhanga
- 2. Mr. Devesh Kumar Program Manager, TEQIP-III DCE,Darbhanga

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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 14th Meeting of the BoG on TEQIP – III Project.

Agenda 1: Discussion and approval of the minutes of the 13th BoG meeting.

The meeting started off with the discussion on the Minutes of Meeting (MoM) of the 13th Board of Governors (BoG) meeting held on 15.12.2020. The MoM of the 13th BoG which has been sent to all the members 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, as described in Agenda 2 below.

Agenda 2: Review of the Action Taken Report (ATR) post 13th BoG meeting.

S.	Proposal/ Commitment	Action Taken
No.		
1	Establishment of the following four Funds	We are happy to announce that all of
	to ensure the continuance of the	the mentioned four Funds have been
	developmental activities beyond the	established in the form of saving
	Project period.	bank accounts at Central Bank of
		India, Mabbi branch and are in
		operation.

Amount Deposited in the four funds

S. No.	Account Name	Amount (in Rs.)
1	Corpus Fund	43,313
2	Faculty Development Fund	43,313
3	Equipment Replacement Fund	43,313
4	Maintenance Fund (for maintenance of buildings and equipment)	43,313
	Total	1,73,252

The Hon'ble members of the BoG appreciated the efforts made in establishment of the four funds well in time.

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Board were apprised with the following fact

- > Two faculty members have resigned from the institution.
 - Mr. Navdeep Pandey, Assistant Professor, Mechanical Dept.
 - Dr. Amit Kumar, Assistant Professor, EEE Dept.

Agenda 3: Presentation and discussions on the progress at DCE after 13th BoG meeting.

A. Classes for Newly admitted students and Exams for old batches.

- The classes for the newly admitted students have already been started from 22nd of February, 2021 in the physical mode following the guidelines of COVID prevention.
- University theory paper exam of all the semesters is going on from 25-02-2021 to 17-03-21 at home center. University practical exams have commenced from 12th of March 2021 and is scheduled to end by 3rd of April, 2021.

B. Webinars, Seminar and Workshop conducted by the Institute

S.	Title/Topic	Mode	Date of	Name of
No.	-		Webinar	Speaker
1	Motivated, Energized and Capable Faculty	Online	23-02-2021	Prof. B. S. Mallik
2	Quality Universities and Colleges: A New and Forward –looking Vision for India's Higher Education System	Offline	24-02-2021	Padma Shri M. B. Verma
3	Towards Creating a Centre of Excellence in the perspective of NEP 2020	Online	25-02-2021	Prof. Shashank Shekhar
4	NPTEL Awareness Workshop	Offline	18-02-2021	Prof. P. K. Jha
5	Workshop on Student Credit Card & KYP	Offline	02-03-2021	Collectorate office

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C. Status of GATE training

- Training for GATE has started on August 14, 2020.
- Syllabus completion: Approximately 100%
- Date of Completion of training:

CE Dept. - 25-01-2021

EEE Dept. - 25-01-2021

CSE Dept. - 18-01-2021

ME Dept. - 18-01-2021

Total students getting trained 376

Final Year - 216
Pre-final Year - 160

■ Total number of students - 483 (280 +203)

Overall attendance of students - Above 75%

D. Employability skill test, AMCAT Test

The test was conducted by AMCAT (Aspiring Minds Computer Adaptive Test) team members. Miss Sharanya Rao is the coordinator of AMCAT. The exam was conducted through online mode.

Year	No. of Candidates appeared for the AMCAT test on 13.02.2021
!st	Not done yet
2 nd	20
3 rd	23
4 th	19

The Hon'ble members of the BoG appreciated the efforts and development and discussed the various activities carried out at DCE after 13th BoG meeting. They further gave their valuable suggestions and the words of encouragement.

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Agenda 4: Presentation and discussions on the overall progress at DCE during TEQIP-III.

A. Start-up Cell

In the session 2018-19, Four activities were held under start up cell on the college campus and one activity was held at UEM, Kolkata.

In the session 2019-20, Seven activities were held under start up cell on the college campus and six activities were held at different colleges including IIT Patna.

In the session 2020-21, One activity was held under start up cell in the online mode. Detailed list of activities with some photographs were presented and discussed in the 14th BoG meeting.

B. GATE Training

In the session 2018-19, training for GATE was started on September 05, 2018 and date of completion of training was 30-01-2019 for all departments. Out of 245 final year students, 188 students got the training and 21 students qualified the GATE 2019. Overall attendance of the students attending the training was around 75%.

In the session 2019-20, training for GATE was started on August 24, 2019 and date of completion of training was 12-01-2020 for all the departments. Out of 269 final year students, 206 students got the training and 24 students qualified the GATE 2020. Overall attendance of the students attending the training was around 80%.

In the session 2020-21, training for GATE was started on August 14, 2020 and date of completion of training was 25-01-2021 for all the departments. Out of 483 students (Final year – 280, Pre-final year - 203), 376 students (Final year – 216, Pre-final year - 160) got the training. Results are still awaited for the GATE 2021. Overall attendance of the students attending the training was around 75%.

C. NASSCOM Training

13 Faculty members from DCE, Darbhanga trained from different IITs in the different domains e.g. Artificial Intelligence & Machine Learning, Robotics & Automation, Internet of Things (IOT), Block Chain and 3D Printing & Design etc. Detailed list of

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training was presented and discussed in the 14th BoG meeting. Training of students through NASSCOM trained Faculty in IT/ITeS Skills was started on June 26, 2020. Expected date of Completion of the students being trained under NASSCOM is 15-03-2021 and till date 07 faculty members have already completed training their students. Overall attendance of the students attending the training is around 55%.

D. Employability Skills Training

In the session 2018-19, training for Employability Skills were started on September 20, 2018 and date of completion of training was April 30, 2019 for all departments. 200 Hours of training provided to the 3rd year students (batch 2016-2020). 02 Mock tests (Pre-Assessment & Post-Assessment Test) were conducted for the students. Modules covered under the training are Communication Skills, Aptitude Test Preparation, Career Skills, Managerial Skills, Leadership Skills, Team Skills, Entrepreneurial Skills, Evaluation Test etc.

In the session 2019-20, training for Employability Skills were started on August 19, 2019 and date of completion of training was March 05, 2020 for all the departments. 200 Hours of training provided to the 3rd year students (batch 2017-2021). 02 Mock tests (Pre-Assessment & Post-Assessment Test) were conducted for the students. Modules covered under the training are Communication Skills, Aptitude Test Preparation, Career Skills, Managerial Skills, Leadership Skills, Team Skills, Entrepreneurial Skills, Evaluation Test etc.

Detailed list of training with photographs were presented and discussed in the 14th BoG meeting.

E. Employability Skills Assessment Test

In the session 2018-19, Employability Skill Assessment Test was conducted on 30th of Nov 2018, 1st, 2nd, 3rd & 4th Dec 2018 for all students from first year to final year of all department. 669 students attended the test. Modules covered under the test are English Comprehension, Quantitative Ability & Logical Ability (common for all students) + Branch Specific module (For Final year students).

In the session 2019-20, Employability Skill Assessment Test was conducted on 29th, 30th & 31st Aug, 2019 for all students from second year to final year of all the departments. 404 students appeared at the test. A post-test counselling was also conducted on 6th March 2020. Modules covered under the test are English

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Comprehension, Quantitative Ability & Logical Ability (common for all students) + Branch Specific module (For Final year students).

In the session 2020-21, Employability Skill Assessment Test was conducted in two phases. 1st phase was conducted on 3rd, 4th & 5th Dec 2020 and 2nd phase was conducted on 13th, February, 2021 for all students from second year to final year of all the four departments. 356 students attended the test. Modules covered under the test are English Comprehension, Quantitative Ability & Logical Ability (common for all students) + Branch Specific module (For Final year students).

F. Software Training

The Training and Placement Cell of DCE, Darbhanga organized various software training programmes for all the four departments of the college. A total of 12 software trainings were organized. In Civil Engineering department, 108 certificates were given to the students for three trainings and 26 certificates were given to the faculty members. In Mechanical Engineering department, 106 certificates were given to the students for three trainings and 26 certificates were given to the faculty members. In Electrical and Electronics Engineering department, 103 certificates were given to the students for three trainings and 16 certificates were given to the faculty members. In Computer Science Engineering department, 103 certificates were given to the students for two trainings and 16 certificates were given to the faculty members. Detailed list of training were presented and discussed in the 14th BoG meeting.

The Hon'ble members of the BoG appreciated the efforts and development and discussed the overall progress of TEQIP-III project so far since its inception at DCE. They further gave their valuable suggestions and the words of encouragement.

Agenda 5: Approval on the various academic and non-academic activities under TEQIP-III.

The Principal apprised the board that the tenure of TEQIP-III project is going to end on March 31, 2021. The institute so far has completed 100% allocation against procurement head and around 90% under Academic head allocation. Further, in the month of March, the Institute received an additional fund of Rs. One Crore from the NPIU based on the excellent performance benchmark. In anticipation of the fresh allocation of the funds received from

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the NPIU, the Principal requested the Hon'ble members of the BoG to consider approval on following academic activities and non-academic activities under TEQIP-III.

A. Approval on academic activities: Cambridge English Certification

Name	Cambridge English Certification
Department	All 1st Year students of all Dept
Training Cost	Rs. 4,00,000
Certificate Test Cost per student	Rs. 3,500
Number of Students	200
Total Test Cost	Rs. 7,00,000
Total Estimated Cost	Rs. 11,00,000

- Already approved in 10th and 11th BoG meeting with 11 lacs budget. Initially, the plan was to train two hundred students. However, the number of students increased to 218 and hence the budget.
- Approval is requested on the revised budget of Rs. 12 Lacs only.

The Hon'ble members of the BoG unanimously approved the revised budget for the Cambridge English Certification.

The Principal apprised the board that due to COVID19 lockdown, Cambridge English Certification KET Exam for students was not held. Now, the Cambridge English Certification KET Exam is rescheduled to be held on 23.03.2021 in physical mode. The Hon'ble members of the BoG discussed the details of Cambridge English Certification training and unanimously approved the reimbursement against the successful completion of the training.

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B. Approval on academic activities: GATE

Name	GATE Registration Fees
Department	All 3 rd Year students of all Dept
Registration Fees	Rs 1500 and Rs 750 (Depend upon Category of candidate)
Number of Students	104
Total Estimated Cost	Rs 1,50,000

- As per Financial Manual of TEQIP-III, Reimbursement of GATE Registration fees is allowed only for the final year students. But, after allowing the 3rd Year students to appear for the GATE 2021, it is requested to allow and approve the reimbursement of GATE Registration fees for third year students also.
- Approval is requested on the budget of Rs 1.5 Lacs only.

The Hon'ble members of the BoG discussed the details of GATE and unanimously approved the reimbursement against the GATE registration fees of 3rd year students also. Admit card of the GATE 2021 is mandatory to claim reimbursement by the students.

C. Approval on faculty attending conferences.

- Post Facto approval
- 1. Dr. Puja Kumari, Assistant Professor, Physics dept.
 - **Title of the paper:** CTAB assisted hydrothermal synthesis, structural and optical properties of ZnGa2O4:Cr3 + long lasting phosphor.
 - Conference name: International Conference on Research Frontiers in Sciences (ICRFS-2021)
 - Conference location: G H Raisoni College Nagpur
 - Conference date: 5th February 6th February, 2021.
 - Estimated budget for approval 8000/-

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Prior approval

1. Ms. Punam Prabha, Assistant Professor, CSE Dept.

- Title of the paper: Securing WLAN with proposed RC4++ and RC4+*
 symmetric keystream cipher algorithms
- Conference name: 2021 2nd International Conference for Emerging Technology (HYBRID CON
- FERENCE) (INCET 2021), Belgaum, Karnataka.
- Conference by: JAIN COLLEGE OF ENGINEERING, BELGAUM
- Conference date: 21st May 23rd May, 2021.
- Estimated budget for approval 33500/-

2. Ms. Punam Prabha, Assistant Professor, CSE Dept.

- Title of the paper: Medical Image protection using Blockchain for Ehealthcare system
- Conference name: 9th International Conference on Frontiers of Intelligent
 Computing: Theory & Applications (FICTA 2021)
- Conference by: NIT, Mizoram
- Conference date: 25th June, 2021 26th June, 2021
- Estimated budget for approval 21000/-

3. Dr. Md Asjad Mokhtar, Assistant Professor, ME dept.

- **Title of the paper:** Analysis of rotor contact on all possible locations using circulant matrix.
- Conference name: XVI Vibration Engineering & Technology of Machinery Conference (VETOMAC- 2021).
- Conference location: BMS College of Engineering, Bengaluru
- Conference date: 16th of December to 18th of December, 2021.
- Estimated budget for approval 30,000/-

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The Hon'ble members of the BoG unanimously approved the reimbursement of registration fee for the conferences if the paper is presented by the faculty members or students of DCE Darbhanga.

D. Approval on NBA related works

S.	Name of Activity	Department	Estimated	Remarks
No.			Budget (in Rs.)	
1.	Painting of Window & Doors of Labs	CE	22,000	Required for NBA Visit
2.	Painting of Lab Equipment	ME	20,000	Required for NBA Visit
3.	Flex Printing	All	1,50,000	Required for NBA Visit
	Total		1,92,000	

The Hon'ble members of the BoG discussed and unanimously approved the reimbursement of activities required for the proposed NBA visit at DCE Darbhanga.

E. Approval on non-academic activities

In the 13th BoG meeting, a total budget of Rs. 2,21,000 for shifting of eight (08) labs of different department and TEQIP Cell from old college building to new building is already approved. However, Shifting of Library of the institutions was not included for the approval in the 13th BoG Meeting. Further, the Principal apprised the boards that we have already shifted our lab equipment, furniture, offices, etc. to the new building in the month of December 2020 & January 2021.

➤ Post Facto Approval is requested for shifting of Library to New Building for the total budget of Rs. 50,000.

The Hon'ble members of the BoG discussed and unanimously approved the requested budget for the shifting of library to new building.

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Shifting of Chemistry Lab is also approved in the 13th BoG meeting with a budget of Rs. 50,000. However, Actual expenditure to shift the chemistry is around Rs. 56,000. Post Facto Approval is requested for shifting of Chemistry Lab to the New Building for the revised budget of Rs. 56,000.

The Hon'ble members of the BoG discussed and unanimously approved the revised budget for the shifting of chemistry lab to new building.

F. Approval on the various activities through Incremental Operating cost (IOC head).

S.	Items	Estimated cost (in Rs.)
No.		,
1	Gas Pipe Line for Chemistry Lab	50,000
2	SYAYAM Lab Maintenance	25,000
3	Computer Lab establishment including wiring (Each Department)	2,00,000
4	Electrical Lab Maintenance (wiring and Experiment Table Repair)	50,000
5	Electrical Maintenance of all labs & 3-Phase Wiring	1,00,000
6	3-Phase Wiring of 4 Labs of ME Dept.	2,00,000
7	Wiring of Various offices in New Establishment	1,00,000
8	Lab equipment installation in Physics lab	10,000
9	Library digitalization	10,000
	Total	7,45,000

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G. Payment of annual service charge for internet service through IOC

- Payment of annual service charge for internet service through IOC (Incremental Operating Cost): 7 Lacs.
- Around 2.34 Lacs is available through Departmental Allocated fund.
- Remaining 4.7 Lacs is requested to be disbursed through TEQIP-III fund.

The Hon'ble members of the BoG approved the various activities planned through IOC head which are mentioned in agenda 5 (Section F and G) above.

H. Networking related works

- In the 13th BoG meeting, A total budget of Rs. 7,00,000 for networking in new building was already approved. Out of this Rs.5,00,000 was approved for Procuring network related equipment and Rs. 2,00,000 was approved for its installation under IOC head. However, actual expenditure for installation of networking is around Rs. 2,25,000. Thus, Post Facto Approval is being requested for installation of networking under IOC head for the revised budget of Rs. 2,25,000.
- ➤ A total budget of Rs. 2,00,000 (which includes instruments and installation) networking for Civil Engineering department in old building is being also requested for approval.

The Hon'ble members of the BoG discussed and unanimously approved the revised budget for the installation of networking in new building and budget for networking for Civil Engineering department in old building.

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Agenda 6: Approval on the procurement plan.

In anticipation of the fresh allocation of the funds received from the NPIU, the Principal requested the Hon'ble members of the BoG to consider approval on following procurement plan under TEQIP-III.

A. Approval on Procurement Plan

S.	Item	Qty	Rate	Estimated cost (in Rs.)
No.				
1	Sensor Based Sanitizer Dispenser	5	9,000	45,000
2	Digital Multi-meter for Lab Equipment	15	2,000	30,000
3	Multifunctional Printer for Office Use	2	25,000	50,000
1	CCTV for New Building	100	5,000	5,00,000
5	Dual Desk	50	10,000	5,00,000
<u>,</u>	Server	3	5,00,000	15,00,000
,	UPS 10 KVA	2	3,55,000	7,10,000
	UPS 5 KVA	2	2,00,000	4,00,000
	UPS 1 KVA	15	35,000	5,25,000
0	Battery for UPS	40	10,000	4,00,000
1	Experimental Table	12	40,000	4,80,000
2	Wooden Stool	200	2,500	5,00,000
_	Total	The state of the s	Total Control of the	56,40,000

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B. Approval on Procurement Plan (For Lab Set up)

S.	Items	Department	Estimated cost	Remarks
No.			(in Rs.)	
1	Laboratory California Bearing Ratio Apparatus for Geotechnical Engineering Lab	CE	1,50,000	As per IS Code 2720 (Part 16)- 1987
2	Unconfined Compressive Strength Test Apparatus for Geotechnical Engineering Lab	CE	1,30,000	As per IS Code 2720 (Part 10)- 1973
3	Language Lab Set Up with 30 Computers	All	35,00,000	
4	Power System Lab Set Up for EEE Branch	EEE	9,00,000	
5	Measurement and Instruments Lab Set Up for EEE Branch	EEE	6,00,000	
Total	•		52,80,000	

The Hon'ble members of the BoG approved the procurement plan of all the items mentioned in agenda 6 (Section A and B) above. The Hon'ble members of the BoG further emphasized on preparing a detailed specification of all the proposed equipment, furniture, etc. before proceeding for the procurement. Further, it is discussed that the project is expected to close on 31st of March, 2021, as per NPIU intimation. So, it's concluded to prepare the procurement plan for only those items that can be procured in this short span of time and for the rest, the institute should wait for the project extension.

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Agenda 7: Approval on the expenditure made under TEQIP-III up to 12-03-2021.

S.	Head Name	Expenditure (Rs.)
No.		
1	PROCUREMENT (Total allocation: 6 Cr.)	6,01,81,698
2	ACADEMIC (Total allocation: 3 Cr.)	2,72,64,292
3	OPERATING COST (Total allocation: 1 Cr.)	76,51,001
	Total	9,50,96,991

S.	Head Name	Expenditure (Rs.)
No.		
1	PROCUREMENT (Total allocation: 6 Cr.)	6,01,81,698
2	ACADEMIC (Total allocation: 3 Cr.)	2,72,64,292
2.1	1.1.2.1: Improve Students Learning	1,32,48,489
2.2	1.1.2.2: Research Assistantship	78,614
2.3	1.1.2.3: Graduate Employability	45,54,033
2.4	1.1.2.4: Faculty and Staff Development and Motivation	30,46,700
2.5	1.1.2.5: Research and Development	78,614
2.6	1.1.2.6: Moocs and Digital Learning	3,47,860
2.7	1.1.2.7: Mentoring / Twinning System	2,33,728
2.8	1.1.2.8: Reforms and Governance	33,51,156
2.9	1.1.2.9: Management Capacity Development	1,78,075
2.10	1.1.2.10: Hiring Consulting Services	10,25,010
2.11	1.1.2.11: Industry-Institute-interaction	11,22,013

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3	OPERATING COST (Total allocation: 1 Cr.)	76,51,001
	TOTAL	9,50,96,991

Total Allocation:

Rs 10,00,00,000 (10 Crore)

Total expenditure:

Rs 9,50,96,991/- (Nine crore fifty lakh ninety six thousand

nine hundred and ninety one rupees only).

The BoG has approved the expenditure made under TEQIP III up to 12.03.2021.

Agenda 8: Discussion on future action and sustainability plan post TEQIP-III.

- Promote consultancy works with the equipment procured under TEQIP and generate resourse for the developmental work at college.
- Continue research activities utilizing the CRS funds and the equipment procured under CRS.

The Hon'ble members of the BoG discussed on the future action and sustainability plan post TEQIP-III and the different activities to be carried out at DCE after TEQIP-III. They further gave their valuable suggestions and the words of encouragement.

Agenda 9: Any other matter with the permission of the Chair.

The 14th BoG concluded with the suggestions to improve the feedback system and preparing a robust monitoring mechanism for various activities undergoing in the Institute. 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 IP

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D.C.E., Darbhanga

Prof. Manas Bihari Verma

Chairman,

Board of Governors, DCE Darbhanga