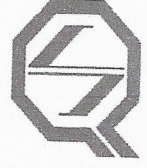




भारत सरकार
Government of India
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
शोध एवं विकास प्रभाग

Research & Development Division
सेवा भवन, आर. के. पुरम, नई दिल्ली-110066
Sewa Bhavan, R.K. Puram, New Delhi-110066

www.cea.nic.in
rajput.ashok@gmail.com, cerndcea@gmail.com
Ph 011-26732020/ Telefax 011-26109336



IS/ISO: 9001-2008

Subject : Implementation of MoU between CEA & IIT Delhi regarding.

The revised MoU between CEA & IIT Delhi has been signed in July, 2013. As per the operational programmes contained in the MoU, the following activities are to be undertaken :-

- (I) M.Tech & Ph.D part-time Programmes in the Department of Mechanical Engineering, Department of Electrical Engineering, Centre for Energy Studies and MBA in frontier areas of Power Management will be made available for the officers of Ministry of Power and CEA and also NPTI & CPRI on the recommendation of CEA/MoP as per the rules of the Institute.
The admission to these programmes would be done by the respective Departments / Centres of IITD in their academic calendar. The norms would be decided by IITD as per the rules applicable for other Government Departments / CPSUs for admission to part-time courses.
- (II) The Chair Professor could undertake R&D activities (in consultation with CEA) to be executed through Research Scholars selected by IIT Delhi for purpose relevant to the need of Power Sector.
- (III) IIT Delhi shall assist in formulating R&D proposal in respect of National Perspective Plan Proposals (NPP) on R&D & Excellence Enhancement Centre (EEC).
- (IV) Based on request from CEA, the CEA Chair Professor would organise one capsule / workshop in a calendar year.

Such activities will be funded by CEA. Budget Section of CEA has been requested to process for budget allocation during 2017-18. It may be noted that the reimbursement of fee towards the admission will be subject to the availability of funds under the Budget for the purpose.

It will be the responsibility of the candidates to pre-register/apply, undergo the process of selection for a particular course to the respective departments in IITD, as the case may be.

2. Meanwhile it is requested that :-

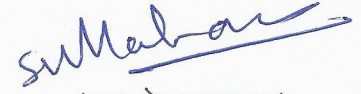
- i) Nominations of the candidates for part-time M.Tech/Ph.D Programmes for the academic year 2017-18 with approval of respective Members of

the Wing of CEA may be furnished to R&D Division by 28th February, 2017 as at (I) above. In this context it is to state that guidelines / norms for screening of candidates for nominations has been made with the approval of Chairperson, CEA. A copy of the same is enclosed for ready reference.

It is also to intimate that a separate online/off line exam is conducted by IIT Delhi for admission to MBA Programme for which the nominated candidate, if any, would have to follow the IIT Delhi Website separately at regular interval.

- ii) Relevant topics to be undertaken under Research Programme may be intimated as at para (II) above to finalise the programme for intimation to IIT, Delhi.
- iii) The appropriate topic may be suggested on which workshop may be organized in consultation with IIT Delhi (as per para IV above).

कृपया पत्र की पावती दें.



(एस के महाराणा)

निदेशक (शोध एवं विकास)

(S K Maharana), Director (R&D)

All CEs (CEA), Sewa Bhawan, RK Puram, New Delhi.

No.CEA/PIg/R&D/IITD/2017/98-111

Dated : 15-02-2017

- Copy for kind information to :
1. Chair Professor, IIT Delhi (Professor Bhim Singh, Department of Electrical Engineering, IIT Delhi, Hauz Khas, New Delhi.
 2. PPS to Chairperson, CEA – For kind information of Chairperson.
 3. PPS/PS to Member (PIg)/ (Th)/ (PS)/ (GO&D)/ (H)/ (E&C) – For kind information of respective Members
 4. Deputy Secretary (Budget), CEA, Sewa Bhawan.

**CEA
Planning Wing
R&D Division**

Implementation of MOU between CEA & IIT, Delhi

**Guidelines / Norms for Selection of Candidates for (Part time & Sponsored)
M. Tech and PhD Programmes.**

- | | |
|---|-------------------|
| 1. Length of Service in CEA: | Points: 20 |
| i. more than 5 years: | - 20 |
| ii. between 3-5 years: | - 15 |
| iii. less than 3 years: | - 10 |
| 2. Percentage of marks obtained in B. Tech & M. Tech: | Points: 30 |
| i. More than 80 % | - 30 |
| ii. Between 70% - 80% | - 25 |
| iii. Less than 70 % | - 20 |
| 3. Academic orientation (Publication of papers,
Presentation in seminar, Association in projects etc). | Points: 15 |
| 4. Performance in the Department:
(as per yearly appraisal) | Points: 35 |
| i. Average More than 9 (for last 3 years): | - 35 |
| ii. Between 7 & 9 (for last 3 years): | - 30 |
| iii. Below 7 (for last 3 years): | - 25 |

Total Points: 100

5. **No candidate would be selected (a) unless he/she has served at least 2 year & ii) if, he/she has less than 5 years of service (left).**
6. An undertaking be given by candidate (selected) to the effect that they would Serve in the Department (CEA etc,) at least for 3 years after getting the aforesaid Degree.
7. In case the selected candidate opts out during the programme or he opts to leave the department before the completion of 3 years, the fees paid on his behalf would be liable to be reimbursed by the candidate to the department (CEA etc.)
8. Selected candidate shall perform all the assigned official works in time.



MEMORANDUM OF UNDERSTANDING

BETWEEN

CENTRAL ELECTRICITY AUTHORITY

AND

INDIAN INSTITUTE OF TECHNOLOGY DELHI

This Memorandum of understanding (MoU) between Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi, (hereinafter referred to as "CEA") and the Indian Institute of Technology, Delhi, Hauz Khas, New Delhi - 110 016 (hereinafter referred to as "IITD") witnessed as follows:

1. OBJECTIVES

The objectives of the Memorandum of Understanding are development of R&D Programmes, admission of CEA officers to PG Programmes, supporting HRD/Training Programmes and creation of one Chair Professorship at IIT Delhi.

1.1 R & D Programmes

- (a) To develop R&D programs and to undertake selective R&D Projects through Research Scholars selected by IIT Delhi for purposes relevant to the needs of Power Sector.
- (b) To assist in R&D in respect of National Perspective Plan (N.P.P) on R&D (of MoP).
- (c) To provide technical assistance in activities initiated by Excellence Enhancement Centre, EEC (Govt. Society) for the Indian Power Sector.

1.2 Master's and Doctoral Programmes.

- (a) To facilitate CEA officers for pursuing Ph.D/M.Tech Programmes in the Department of Electrical Engineering/ Department of Mechanical Engineering/ Centre for Energy Studies and also to coordinate HRD programmes in the frontier areas of Power Management.
- (b) CEA officers may join the Part Time MBA Programme at IIT Delhi as per the prevailing rules and admission procedures of the Institute as applicable to other candidates.

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1.3 HRD/Training Programmes

To provide active support in conducting HRD programmes relevant to the needs of CEA and also to help in coordinating capsule course in the frontier areas of Power Management.

1.4 CEA CHAIR PROFESSORSHIP

One CEA Chair Professorship will be instituted at IIT Delhi and this position will be designated as under :

CEA Chair Professor in Power Technology from the Electrical Engineering Deptt/Mechanical Engineering Department/Centre for Energy Studies.

2. CONTRIBUTION FOR CEA CHAIR PROFESSORSHIP

As per the revised guidelines/rules of IIT Delhi, an endowment of Rs.1 Crore for one Chair professorship will be maintained by CEA. The operating expenditure of chair professorship would be met through further interest accrued on this endowment fund of Rs.1 Crore.

CEA has already paid in two installments, Rs.30 lakhs (Rupees thirty lakhs only) in the year 1999-2000 and Rs.30 lakhs (Rupees thirty lakhs only) in the year 2000-2001 for two Chairs. As on 30th June, 2013 a sum of Rs. 98.61 lakhs is lying as balance to the credit of CEA Chair account which includes endowment, interest accrued and expenditure incurred so far. The sole purpose of the endowment is the creation of the CEA Chair Professor to achieve the above stated objectives.

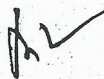
3. UTILIZATION OF CONTRIBUTION

The earnings from the endowment of Rs.1 Crore and interest accrued thereon shall be utilized for meeting the expenditure involved towards chair professorship. The scheme has no financial liabilities for Govt. of India in future except the endowment fund. However, additional requirement, if any, for pursuing M.Tech./Ph.D. programme by CEA officers and undertaking R&D Programmes would be provided by CEA if such programmes are felt necessary.

Towards the end of each year, IITD will send an audited annual account to CEA and Controller of Accounts, Ministry of Power (MOP), for the amount spent for the above purpose. CEA would be liable to pay the gap, if any, under the applicable rule/regulation of expenditure and income out of endowment fund.

4. APPOINTMENT AND TENURE OF CEA CHAIR PROFESSOR

Appointment of Chair Professor will be made as per the established procedures at IIT Delhi and also as per the rules and guidelines of the Institute approved from time to



time. The tenure of the Chair Professor is normally for a period of up to five years, but such that it does not extend beyond his/her term of employment as Associate Prof. or Professor, or Visiting Faculty/Professor or Emeritus Fellow/Professor. However, continuation into the fourth and fifth years will be subject to a review at the end of the third year. Further, an individual may be eligible to be considered for re-appointment, together with other eligible candidates, for a period of up to 5 years (without a break) any number of times.

5. OPERATION OF PROGRAMMES

5.1 Master's and Doctoral Programmes

- i) M.Tech. and Ph.D programmes will be made available for the officers of Ministry of Power and CEA and also NPTI & CPRI on the recommendation of CEA, MoP as per rules of the Institute.
- ii) The admission to these programmes would be done by the respective Departments/Centres of IITD in their academic calendar. The norms would be decided by IITD as per the rules applicable for other Govt. Department/CPSUs for admission to part time courses.
- iii) IITD shall charge fees as applicable for Part Time M-Tech Programmes in the specified fields for 30 candidates enrolled in ten years (Three (03) candidates per year) from the date of execution of the MOU. CEA shall deposit fee for 3 candidates every year at the time of admission. In case this limit is not exhausted in a year, the same (seats) shall be carried forward for future years. The limit shall be reviewed at the end of ten years. Similarly IITD shall admit and charge fees for Ph.D. Programme for 10 candidates who are officers of Ministry of Power and CEA and also NPTI & CPRI as per the rules/procedures of the Institute and the position shall be reviewed after completion these 10 Ph.D. in the Thrust areas identified by CEA. CEA shall deposit the applicable fees/charges as per the rules of the Institute for such admissions.
- iv) Fees for enrollment of CEA Officers in part time MBA programme, if any, will be paid by the CEA as per rules of the Institute. Admission of such sponsored candidates will be as per the procedures/rules as applicable to other candidates.

5.2 R & D Programmes:

- (i) The Chair Professor could undertake **R&D activities (in consultation with CEA)** to be executed through Research Scholars selected by IIT Delhi for purposes relevant to the needs of Power Sector. Such scholars would be separately funded by CEA.
- (ii) IITD shall assist in formulating R&D Proposals in respect of National Perspective Plan Proposals (N.P.P) on R&D & EEC.

- (iii) Any outcome(s) of research done by member occupying the CEA Chair Professor/Faculty, through Research Scholars funded by CEA selected for this purpose, in the form of patent/copyrights or any other form of intellectual property, would be of CEA, MoP and IITD only.
- (iv) Based on request from CEA, the CEA Chair Professor would organize one capsule/workshop in a calendar year. Such activities will be funded by CEA.

6. PRESENTATION OF THE WORK DONE BY THE CEA CHAIR PROFESSOR

The CEA Chair Professor will present their work to the Management Committee once in a year at a venue chosen by CEA and IITD.

7. MANAGEMENT COMMITTEE AND REVIEW OF THE ANNUAL PROGRESS

- i) A Management Committee consisting of the following will review the functioning of the Chair as well as utilization of funds each year:

IITD

- Director IIT Delhi
- Two nominated Members
- Professors of related Discipline

CEA

- Chairman
- Two Members of the Authority
- Joint Secretary, Ministry of Power

- ii) The various activities to be reviewed by the Management Committee will include:
 - a) The details of income and expenditure during the previous year.
 - b) The objective fulfilled as at para-1.1, 1.2 and 1.3 above by the CEA Chair Professor during the year.
 - c) Research and other academic work may be proposed to be undertaken by the CEA Professor for the coming year in frontier area of Power Sector.
- iii) There will be an Advisory Committee to assist the Management Committee. The formation of Advisory Committee shall be as under:

IITD

Head (Electrical/Department)
Head (MED)
Head (CES)

CEA

C.E.(Hydro Engineering & Technology)
C.E.(Thermal Engineering & Technology)
C.E.(System Technology & Engineering)
C.E. (R&D)
DIR (R&D) - Member Secy.

8. The CEA Chair Professor is expected to be available to CEA for advice, guidance, delivering lectures during CEA, MOP sponsored seminar/workshop.

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9. It is hereby agreed that recommendations of the duly constituted committees under this MoU shall be binding on CEA and IITD.


10. It is hereby agreed that any and all disputes arising out of the interpretation and/or achieving the objectives of this MoU shall be mutually settled between Chairman, CEA and Director, IITD.

11. This Memorandum of Understanding shall be valid for a period of ten years subject to review/renewal after every five years, unless and otherwise terminated through mutual agreement by both the parties. It shall take effect from the date of its signing.

IN WITNESS WHEREOF the parties hereto have signed this Memorandum of Understanding by the hand of Sh. A.S. Bakshi, Chairman on behalf of Central Electricity Authority and by the hand of Prof. R.K. Shevgaonkar, Director, on behalf of Indian Institute of Technology Delhi. The MoU is signed subject to approval by the appropriate authorities on both the sides.

All the matters of dispute shall be executed subject to the jurisdiction of Delhi Court.


SIGNED AND DELIVERED
On behalf of the said
Central Electricity Authority


(A.S. Bakshi)
Chairman, CEA

Date: 30/7/2013

अरविन्दर सिंह बक्शी
A.S. BAKSHI
अध्यक्ष/Chairperson
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
विद्युत मंत्रालय/Min. of Power
नई दिल्ली/New Delhi-66

SIGNED AND DELIVERED
On behalf of the said
Indian Institute of Technology Delhi


(Prof. R.K. Shevgaonkar)
Director, IIT Delhi

Date: 30/7/2013

आर. के. शेवगांवकर
R.K. SHEVGAONKAR
निदेशक/Director
भारतीय प्रौद्योगिकी संस्थान दिल्ली
Indian Institute of Technology Delhi
पेज-साम, नई दिल्ली-16/Hauz Khas, New Delhi-11



भारत सरकार
Government of India
केन्द्रीय विद्युत प्राधिकरण
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Research & Development Division
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Ph 011-26732020/ Telefax 011-26109336



IS/ISO: 9001-2008

No. CEA/PLG/R&D/IITD/2017 | 98-111

Dated : 15-02-2017

✓ Director General
Central Power Research Institute
Prof.Sir C.V.Raman Road, Post Box No: 8066,
Sadasiva Nagar (P.O),
Bangalore, India , Pincode : 560 080
Fax: +91(80) -2360 2457/23601213

Subject : Implementation of MoU between CEA & IIT Delhi regarding.

Sir,

The revised MoU between CEA & IIT Delhi has been signed in July, 2013. As per the operational programmes contained in the MoU, the following activities are to be undertaken:

- (I) M.Tech & Ph.D part-time Programmes in the Department of Mechanical Engineering, Department of Electrical Engineering, Centre for Energy Studies and MBA in frontier areas of Power Management will be made available for the officers of Ministry of Power and CEA and also NPTI & CPRI on the recommendation of CEA/MoP as per the rules of the Institute.

The admission to these programmes would be done by the respective Departments / Centres of IITD in their academic calendar. The norms would be decided by IITD as per the rules applicable for other Government Departments / CPSUs for admission to part-time courses.

- (II) The Chair Professor could undertake R&D activities (in consultation with CEA) to be executed through Research Scholars selected by IIT Delhi for purpose relevant to the need of Power Sector.
- (III) IIT Delhi shall assist in formulating R&D proposal in respect of National Perspective Plan Proposals (NPP) on R&D & Excellence Enhancement Centre (EEC).
- (IV) Based on request from CEA, the CEA Chair Professor would organise one capsule / workshop in a calendar year.

Respective organisations will bear the expenses towards the fees and related expenditure etc from their own Budget.

It is also to intimate that a separate online/off line exam is conducted by IIT Delhi for admission to MBA Programme for which the nominated candidate, if any, would have to follow the IIT Delhi Website separately at regular interval.

It will be the responsibility of the candidates to pre-register/apply, undergo the process of selection for a particular course to the respective departments in IITD, as the case may be.

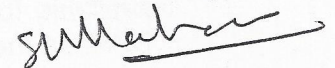
2. You are therefore requested to take action as under :-

- i) Nominations of the candidates for part-time M.Tech/Ph.D Programme in Department of Electrical Engineering, Mechanical Engineering and Centre for Energy Studies and MBA (part-time) in frontier areas of Power Management for the academic year 2017-18 with approval of the competent Authority may be furnished to R&D Division of CEA by 28th February, 2017 as at (I) above.
- ii) Relevant topics to be undertaken under Research Programme may be intimated as at para (II) above to finalise the programme for intimation to IIT, Delhi.
- iii) The appropriate topic may be suggested on which workshop may be organized in consultation with IIT Delhi (as per para IV above).

3. CPRI may consult Chair Professor, IIT Delhi (Professor Bhim Singh, Department of Electrical Engineering, IIT Delhi to frame up R&D proposals under National Perspective Plan.

कृपया पत्र की पावती दें.

Yours faithfully,



(एस के महाराणा)

निदेशक (शोध एवं विकास)

(S K Maharana), Director (R&D)



भारत सरकार
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IS/ISO: 9001-2008

No.CEA/PLG/R&D/5/3/2017 | 90-11

Dated : 15.02.2017

✓ The Director General
National Power Training Institute
NPTI Complex, Sector 33,
Faridabad-121 003.

Subject : Implementation of MoU between CEA & IIT Delhi regarding.

Sir,

The revised MoU between CEA & IIT Delhi has been signed in July, 2013. As per the operational programmes contained in the MoU, the following activities are to be undertaken :-

Part-time M.Tech & Ph.D Programmes in the Department of Mechanical Engineering, Department of Electrical Engineering, Centre for Energy Studies and MBA in frontier areas of Power Management will be made available for the officers of Ministry of Power and CEA and also NPTI and CPRI on the recommendation of CEAMoP as per rules of the Institute.

The admission to these programmes would be done by the respective Departments / Centres of IITD in their academic calendar. The norms would be decided by IITD as per the rules applicable for other Government Departments/CPSUs for admission to part-time courses.

2. You are therefore requested to take action on nominations of the candidates for part-time M.Tech/Ph.D Programme in Department of Electrical Engineering, Mechanical Engineering, Centre for Energy Studies and MBA in frontier areas of Power Management for the academic year 2017-18.

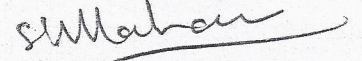
Respective organisations will bear the expenses towards the fees and related expenditure etc from their own Budget.

It is also to intimate that a separate online/off line exam is conducted by IIT Delhi for admission to MBA Programme for which the nominated candidate, if any, would have to follow the IIT Delhi Website separately at regular interval.

It will be the responsibility of the candidates to pre-register/apply, undergo the process of selection for a particular course to the respective departments in IITD, as the case may be.

कृपया पत्र की पावती दें.

Yours faithfully,



(एस के महाराणा)

निदेशक (शोध एवं विकास)

(S K Maharana), Director (R&D)



भारत सरकार
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Ph 011-26732020/ Telefax 011-26109336



IS/ISO: 9001-2008

Subject : Implementation of MoU between CEA & IIT Delhi regarding.

The revised MoU between CEA & IIT Delhi has been signed in July, 2013. As per the operational programmes contained in the MoU, the following activities are to be undertaken :-

Part-time M.Tech & Ph.D Programmes in the Department of Mechanical Engineering, Electrical Engineering, Centre for Energy Studies and MBA in frontier areas of Power Management will be made available for the officers of Ministry of Power and CEA and also NPTI and CPRI on the recommendation of CEA/MoP as per rules of the Institute.

The admission to these programmes would be done by the respective Departments / Centres of IITD in their academic calendar. The norms would be decided by IITD as per the rules applicable for other Government Departments/CPSUs for admission to part-time courses.

2. You are therefore requested to take action on nominations of the candidates for part-time M.Tech/Ph.D Programme as above in Department of Electrical Engineering, Mechanical Engineering, and Centre for Energy Studies and MBA in frontier areas of Power Management for the academic year 2017-18.

It is to intimate that a separate online/off line exam is conducted by IIT Delhi for admission to MBA Programme for which the nominated candidate, if any, would have to follow the IIT Delhi Website separately at regular interval.

The expenditure to this effect would be borne by CEA/MoP. It may be noted that the reimbursement of fee towards the admission will be subject to the availability of funds under the Budget for the purpose.

It will be the responsibility of the candidates to pre-register/apply, undergo the process of selection for a particular course to the respective departments in IITD, as the case may be.

(एस के महाराणा)

निदेशक (शोध एवं विकास)

(S K Maharana), Director (R&D)

✓ Deputy Secretary (T&R), Ministry of Power, "F" Wing, 2nd Floor, Nirman Bhawan, New Delhi.

No.CEA/Pig/R&D/IITD/2017

198-11

Dated : 15-02-2017



भारत सरकार
Government of India
केन्द्रीय विद्युत प्राधिकरण
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IS/ISO: 9001-2008

No.CEA/PLG/R&D/IITD/2017

Dated : 15.02.2017

CEO
Excellence Enhancement Centre (EEC),
West Block-2
R K Puram, Sector-1,
New Delhi-110066.

Subject : Implementation of MoU between CEA & IIT Delhi regarding.

Sir,

The revised MoU between CEA & IIT Delhi has been signed in July, 2013. As per the operational programmes contained in the MoU, the following activities are pertinent to EEC :

IIT Delhi shall assist in formulating R&D proposal in respect of National Perspective Plan Proposals (NPP) on R&D of Ministry of Power and of Excellence Enhancement Centre (EEC).

2. You are therefore requested to take action so that EEC may frame up R&D proposal in consultation with Chair Professor, IIT Delhi (Professor Bhim Singh, Department of Electrical Engineering, IIT Delhi).

कृपया पत्र की पावती दें.

Yours faithfully,

(एस के महाराणा)

निदेशक (शोध एवं विकास)

(S K Maharana), Director (R&D)