



**MEMORANDUM OF UNDERSTANDING**

BETWEEN

**NATIONAL THERMAL POWER CORPORATION LTD. NEW DELHI**

AND

**INDIAN INSTITUTE OF TECHNOLOGY , DELHI**

**LONG TERM ACADEMIC INTERACTION FOR RUNNING A SPECIAL M.TECH. PROGRAMME IN POWER GENERATION TECHNOLOGY FOR NATIONAL THERMAL POWER CORPORATION SPONSORED PARTICIPANTS:**

This MOU is executed on 1<sup>st</sup> May, 1998 between National Thermal Power Corporation Ltd. a company incorporated under the companies act 1956, and having its registered office at NTPC Bhawan, Scope Complex, 7, Institutional Area, Lodi Road, New Delhi-110003 ( hereinafter called "NTPC" ) which expression shall unless repugnant to the context or meaning thereof include its successors and assigns of the first part; and Indian Institute Of Technology, Delhi an institute of national importance established under Institutes of Technology (Amendment) Act 1963 as a deemed University ( herein after called "IIT, Delhi" ) which expression unless repugnant to the context or meaning thereof include its successors and assigns of the second part .

WHEREAS NTPC and IIT, Delhi desire to have long term association for academic interaction in running a special interdisciplinary (mainly involving Mechanical, Electrical and Control Engineering disciplines) M.Tech.( Power Generation ) Programme on mutually agreed terms and conditions mentioned in these presents.

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NOW THEREFORE IT IS MUTUALLY AGREED BY AND BETWEEN THE PARTIES AS UNDER:

#### ARTICLE # 1

The objective of this memorandum of understanding is to establish a long term association between NTPC and IIT, Delhi for academic interaction in running a special interdisciplinary ( mainly involving mechanical electrical and control engineering disciplines) M.Tech. Programme in Power Generation for NTPC sponsored participants. Both NTPC and IIT, Delhi specifically agreed to fully cooperate and collaborate each others for successful operation of M. Tech programme in all its spheres.

#### ARTICLE # 2

It is specifically agreed between the parties to this MOU that the said interdisciplinary M.Tech Programme in Power Generation shall be governed by the rules and regulations as applicable to other regular M.Tech. programs/interdisciplinary M.Tech. programs of IIT, Delhi including admission criterion. The total number of participants for the M.Tech Programme shall be limited to 25 students and/or as may be specifically mutually agreed between NTPC and IIT, Delhi. The admission to this M.Tech programme shall be in July/August each year for four successive years. There shall be no liability on the part of IIT, Delhi towards hostel accommodation or any other financial assistance to these sponsored students.

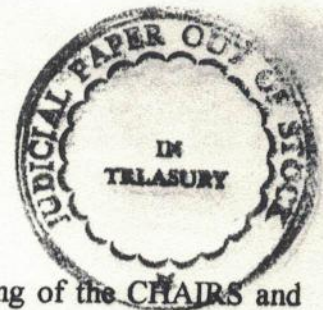
#### ARTICLE # 3

The NTPC agrees to create two CHAIRS at IIT, Delhi called "NTPC CHAIRS IN POWER GENERATION" one in the department of Electrical Engineering and the other in the department of Mechanical Engineering. The main objective of creating these CHAIRS is to promote teaching, research & development, consultancy and academic work in the field of power generation technology so as to augment the knowledge insights and skills of the technical professionals in power generation.

#### ARTICLE # 4

NTPC will fund the two CHAIRS by giving Rs. Sixty lakhs to be deposited in the corpus of IIT, Delhi in permanent endowment. The expenses towards the CHAIRS shall be met from this endowment as per IIT, Delhi norms.

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The Advisory Board will generally oversee the proper functioning of the CHAIRS and conduct of the special interdisciplinary M.Tech programme in Power Generation.

#### ARTICLE # 9

This MOU shall initially be valid for five years from the date of its signing by both the parties and can be extended for further period of five years at a time on mutually agreed terms and conditions. This programme could be extended to participants from other power utilities in India and abroad on sponsorship or full fee payment basis as may be mutually agreed between the parties. The Advisory Board may also work out the details of fee structure and other modalities for M.Tech programme which shall be treated as an integral part of this MOU.

#### ARTICLE # 10

##### **DISPUTE SETTLEMENT/ARBITRATION -**

It is specifically agreed between the parties that all differences/disputes arising out of this MOU shall at the first instance be amicably settled at the level of Director(Pers.) of NTPC and Director IIT, Delhi. In the event of failure to do so the matter shall be referred to Sole Arbitration of Chairman and Managing Director, NTPC or its nominee. The arbitration shall be conducted in accordance to the provisions of Arbitration and Conciliation Act 1996. The venue of the Arbitration shall be New Delhi. The Arbitrator shall give speaking and reasoned award. The arbitration award shall be final and binding on both the parties. The cost of the Arbitration shall be equally shared by both the parties.

#### ARTICLE # 11

##### **GOVERNING LAWS & JURISDICTION-**

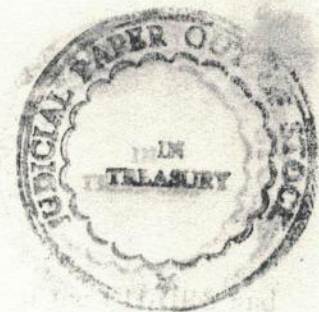
This MOU shall be governed by Indian Laws and the courts of Delhi shall have exclusive jurisdiction.

#### ARTICLE # 12

This MOU contains the entire agreement between the parties and supersedes all prior or contemporaneous oral or written agreement, commitments, understandings or communications with respect to the subject matter hereof.

#### ARTICLE # 13

Any amendment to this MOU, in order to be valid and binding shall be by an instrument in writing and signed by the parties hereto.



**ARTICLE # 5**

Distinguished academicians in the power system/thermal power engineering shall be appointed as a Professors to the CHAIRS on contract basis by IIT, Delhi in accordance with the Board of Governance of IIT, Delhi.

**ARTICLE # 6**

The professor appointed to the CHAIR is expected to:

- A. Coordinate effectively and efficiently the special M.Tech programme in Power generation.
- B. Contribute to deeper understanding and dissemination of knowledge in respect of recent technological advances in the area of power generation and publish results in leading international/national journals in the area.
- C. Establish long term association between NTPC and IIT, Delhi for research & development, consultancy as per IIT, Delhi norms, academic interaction, faculty exchange and exchange of technical & research information in power generation.

**ARTICLE # 7**

It is specifically agreed by the parties to this MOU that NTPC shall finance an amount of Rs. 1,23,00,000/- (Rupees One crore and Twenty three lakhs) towards the cost of the said M.Tech programme inclusive of the cost of two CHAIRS as provided in article 3 & 4 aforesaid and specialised lab. facilities created at IIT, Delhi for this purpose. Rs. 60,00,000/- (Rupees Sixty lakhs) shall be given by NTPC to IIT, Delhi as endowments towards two CHAIR Professors, after signing of this MOU by both the parties but before the commencement of the said M.Tech programme. The balance consideration shall be paid in four equal annual instalments.

**ARTICLE # 8**

It is mutually agreed that for the successful operation of this M.Tech programme there will be an Advisory Board consisting of the following:

- |    |   |               |
|----|---|---------------|
| 1. | Director IIT, DELHI   | Chairman      |
| 2. | Head PMI  | Vice Chairman |
| 3. | Two representatives of IIT, DELHI faculty members nominated by Director, IIT, DELHI | Members       |
| 4. | Two representatives of NTPC nominated by Director(Pers.), NTPC                      | Members       |

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#### ARTICLE # 14

##### **NOTICES-**

Any and all notices, claims or demands required to be made under this MOU shall be in writing, signed by the authorised representative of the party, giving such notice, claim or demand and shall be delivered personally against acknowledgement or by fax or by registered AD mail, to the other party at its addresses set forth herein below or at such addresses as such other party may subsequently notify. All notices shall be given at the addresses of the other party as given below:

##### **IIT Delhi**

Deputy Director(Faculty)  
Tel.No. : +91 11 6862153, 6861977,6853601  
Fax No. : +91 11 6857753,6862037  
Address : Indian Institute of Technology,Hauz Khas, New Delhi-110016  
Attn. : Prof. Premvrat

##### **NTPC**

Head ,PMI  
Tel.No. : +91 11 8 543919, 550924, 525316  
Fax No. : +91 11 8 543919, 541863, 550913  
Address : Power Management Institute, NTPC, 5-14 Sector-16A NOIDA.  
Dist: Gautam Buddha Nagar, U.P. -201301  
Attn. : Sh. Shishir Tamotia

#### ARTICLE # 15

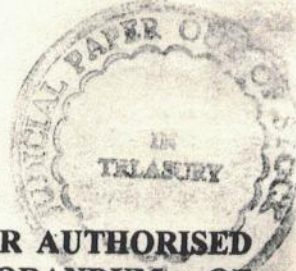
This MOU shall come into force as soon as it is signed for all purposes and intent and shall, unless earlier terminated by mutual consent, remain in full force subject to obtaining necessary approval from IIT Delhi and NTPC.

#### ARTICLE # 16

This memorandum of understanding is prepared and duly signed in two original copies and both equally valid and one to be kept by each party.

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IN WITNESS WHEREOF, THE PARTIES THROUGH THEIR AUTHORISED REPRESENTATIVE HAVE EXECUTED THIS MEMORANDUM OF UNDERSTANDING AT NEW DELHI ON THE DAY , MONTH & YEAR MENTIONED ABOVE.

For and on behalf of NTPC Ltd.

For and on behalf of IIT, DELHI

Signature

*[Handwritten Signature]*

Name Sh. K.K.SINHA

Title Director(Pers.) NTPC

Stamp/Seal

K.K. SINHA  
Director (Personnel)  
National Thermal Power Corpn. Ltd.  
Scope Complex, Core '7', Lodhi Road  
New Delhi-110 003

Signature

*[Handwritten Signature]*

Name Prof. V.S.RAJU

Title Director IIT Delhi

Stamp/Seal

V.S. RAJU  
Director  
Indian Institute of Technology  
Hauz Khas, New Delhi-110 016

Witnesses:

1. Signature: *[Handwritten Signature]*

Name : Anjan Kumar Bajpaie  
Designation: Company Secretary  
N.T.P.C.

Signature: *[Handwritten Signature]*

Name : Prof. Prem Vrat  
Designation: Dy. Director (Faculty)  
IIT, Delhi

2. Signature: *[Handwritten Signature]*

Name : Shishir Tamotia  
Designation: Dy.Gen.Mgr.(I/C.),PMI  
N.T.P.C.

2. Signature: *[Handwritten Signature]*

Name : Prof. J. Nanda  
Designation: Professor  
IIT, Delhi

SHISHIR TAMOTIA  
Dy. General Manager (I/C)  
Power Management Institute  
NTPC Ltd. Sector 25A Noida-201301

Prof. Dr. J. Nanda, FNAE, FNA  
Professor  
Department of Electr. Engg.  
IIT, Delhi, New Delhi-110016