



उत्तर प्रदेश UTTAR PRADESH

AV 850751

MEMORANDUM OF UNDERSTANDING

FOR COLLABORATION

BETWEEN

BHARAT PUMPS & COMPRESSORS LIMITED

(GOVERNMENT OF INDIA ENTERPRISES)

NAINI, ALLAHABAD, INDIA

AND

THE BOARD OF GOVERNORS

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY

ALLAHABAD ALLAHABAD, INDIA

This memorandum of understanding thereafter referred as MOU is made and executed on this Sixteenth Day of November in the year 2012 at the Institute Conference Hall, Motilal Nehru National Institute of Technology Allahabad.

[Signature]
16/11/12

[Signature]

The Bharat Pumps & Compressors Ltd. Naini, Allahabad (BPCL) and Motilal Nehru National Institute of Technology Allahabad (MNNITA) agree to establish an institutional collaboration for research and development of technology to improve the performance of pumps as the primary objective, and to promote interaction and encourage share of expertise and resources in the areas of common interest for mutual benefits. The collaboration aims at the advancement of technology.

Both parties further agree that this MOU is a general framework of collaboration and will serve as an indicator of continued interest between an educational technical institution and a manufacturing unit for enhancement of knowledge.

Areas of Cooperation:

The following general areas have been identified as possible starting points for the collaboration. The areas can be further expanded and detailed by mutual consent for implementation of specific activities under MOU as per written agreements.

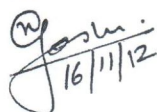
- i. Enhance interaction and share the expertise and resources to develop technology for design and development of pumps and in other areas of common interest.
- ii. Prepare and carry out joint research projects to improve the performance of pump using latest technologies like Computational Fluid Dynamics (CFD) etc.
- iii. The project assigned to MNNITA by BPCL shall be on mutually agreed terms and conditions. A team of BPCL engineers shall also be associated with the project team from MNNITA. The technological details of the project will be made available to the team of BPCL. The project shall be completed in a predefined time frame.
- iv. MNNITA will offer tailor-made training programme to BPCL trainees on mutually agreed terms and conditions.
- v. MNNITA shall offer its PG and PhD programmes to eligible BPCL employees.


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- vi. MNNITA will prepare tailor-made PG programme(s) in consultation with BPCL and the students passing out from such programme(s) shall be considered for placement in BPCL on preferential basis, if vacancy arises.
- vii. Conduct joint meetings regularly to monitor the progress of various activities.
- viii. Organize a joint seminar/workshop every year to present the progress made in the collaboration.
- ix. Publish and present the outcomes of the joint activities at national and international journals, conferences and workshops as a joint outcome as mutually agreed & as protected information.
- x. Organize joint training programme(s) for the third party based on the technology developed through this collaboration.
- xi. Technology developed jointly may be shared with the third party after mutual consent of both the parties.
- xii. Benefits (in terms of research publications, IPR, profits etc.) arising out of technology developed jointly shall be shared on mutually agreed terms and conditions.
- xiii. The exchange of proprietary information shall be subject to a separate written nondisclosure agreement.
- xiv. There will be no financial obligation of MNNITA and BPCL, if any, for loss or damage arising out of the activities within this MOU.
- xv. Any dispute arising out of this agreement shall be referred to a sole arbitrator to be appointed by the Chief Executive of Bharat Pumps & Compressor Ltd. in consultation with the director of MNNITA. The award of the arbitrator shall be final, conclusive and binding on both the parties.

Coordination:

From BPCL Mr. A. K. Srivastava, DGM (PDD-CP/RP) and from MNNITA Prof. Anuj Jain, Professor, Applied Mechanics Department will be designated as coordinator (liaison) for the joint programme. They will confer periodically with each other.

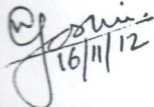

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Commencement, Duration and Termination of MOU:

This MOU will be valid for a period of three years commencing from Sixteenth Day of November in the year 2012 which can be further extended by the mutual consent of both the parties in written. Either institution may terminate or revise the agreement by giving a six months' written notice of such intent.

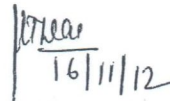
In witness where off, the parties here in have signed this MOU on the date above written –

For and on behalf of
BHARAT PUMPS & COMPRESSORS
LIMITED
(GOVT. OF INDIA ENTERPRISE)
NAINI, ALLAHABAD, INDIA)



K.C. JOSHI.
CHIEF GENERAL MANAGER (WORKS)

For and on behalf of
THE BOARD OF GOVERNORS OF
MOTILAL NEHRU NATIONAL INSTITUTE
OF TECHNOLOGY ALLAHABAD
ALLAHABAD, INDIA



SARVESH K. TIWARI.
REGISTRAR
Registrar
Motilal Nehru National Institute of Technology
Allahabad – 211 004 (INDIA)