

**MEMORANDUM OF UNDERSTANDING  
BETWEEN**



**NATIONAL COUNCIL FOR CEMENT AND  
BUILDING MATERIALS,  
Ballabgarh**

**AND**



**NATIONAL INSTITUTE OF SOLAR ENERGY  
Gurugram**

**Date: .....** 29<sup>th</sup> July 2024 **.....**

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**Memorandum of Understanding**  
**between**  
**National Council for Cement and Building Materials,**  
**Ballabgarh**  
**and**  
**National Institute of Solar Energy (NISE)**  
**Gurugram, Haryana**



This MEMORANDUM OF UNDERSTANDING FOR RESEARCH AND DEVELOPMENT (hereinafter referred to as the "MoU") is made and entered into on this 29<sup>th</sup> day of JULY, 2024, by and among:

**National Council for Cement and Building Materials**, (hereinafter referred to as NCB which expression shall unless repugnant to the context or meaning thereof, mean and include its Director General and its successors, executors and permitted assigns) is an apex research organization under the administrative control of Ministry of Commerce and Industry, Government of India with objectives to promote research and scientific work connected with Cement, Building Materials, and allied industry, including, but not limited to technology development, technology transfer, continuing education, and industrial services for cement and construction industries. The registered office of NCB is located at Ballabgarh, Pincode: 121004 Haryana while the other Units/Project offices are located at Hyderabad, Ahmedabad and Bhubaneshwar. All the offices are administratively controlled by the registered office at Ballabgarh, Haryana. NCB is **first party** of this MoU.

AND

**National Institute of Solar Energy** (hereinafter referred to as NISE which expression shall unless repugnant to the context or meaning thereof, mean and include its Director General and its successors, executors and permitted assigns), an autonomous institution of Ministry of New and Renewable Energy (MNRE), is the apex National R&D institution in the field of Solar Energy established on 28<sup>th</sup> October 2013. NISE assist the Ministry in implementing the National Solar Mission and to coordinate research, technology and other related works. The institute is involved in demonstration, standardization, interactive research, training and testing of solar technologies and systems. NISE is **second party** of this MoU.



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AND

WHEREAS this MoU between NCB and NISE (together may be referred to as "the institutions"), is signed with the objective of fostering collaboration between the institutions to develop and demonstrating technologies of mutual interest. Accordingly, NCB and NISE agree to the following understanding amongst themselves:

1. Collaborate for joint R&D work/projects on immediate and future requirements of country in field of solar thermal application, solar PV, green hydrogen and any other renewable energy technologies for cement industry.
2. To jointly propose and engage in research or training programs sponsored by funding agencies, and to invite each other's faculty to participate therein,
3. NCB and NISE will utilize each other facilities and infrastructure for research, testing and experimental purposes on mutually agreeable terms on project-to-project basis.
4. Collaboratively work on performance analysis, characterization, piloting and long-term evaluation of the developed products and applications.
5. There shall be no financial obligations on either of the institute. However, any financial proposal shall be subjected to approval from the respective organization.
6. Jointly file patent and get Intellectual Property (IP) rights for the developed technology/product/process/system on case-to-case basis.
7. Perform techno-commercial analysis of the developed products and understand the relative merit against other available options.
8. Jointly write journal papers, conference papers and other material to publish the results of the work.
9. Jointly participate in trade shows, press conferences, press releases or other similar means for publicizing the products and applications to general public.
10. To exchange information on research and educational programs.
11. To jointly organize short-term continuing training programs, seminars, conferences, or workshops on topics of mutual interest and to invite each other's faculty to participate therein,
12. To exchange, on a reciprocal basis, faculty and officials for limited periods of time for purpose of education and for research



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13. To promote skill development and entrepreneurship jointly through technology development and skill-based trainings.

**Implementing Arrangements:**

- (i) NCB and NISE shall put adequate and reasonable measures in their respective units to maintain confidentiality and unauthorized use of information associated with the joint projects.
- (ii) The institutions agree to have no restriction on the publication of the results of the collaborative research with prior approval from the institutions and with due credits to the authors/researcher and, except where such outcome has implications for the security of the State. NCB and NISE shall be free to carry out follow-up research independently.
- (iii) Rights regarding the Intellectual Property (IP) developed under the scope of this MoU, including the rights on royalty and publication of the results shall be decided by the mutual discussions amongst the institutions. The institutions agree to frame separate policy documents in this regard consistent with the rules and regulations of NCB and NISE in the form of a Memorandum of Agreement (MOA).
- (iv) NCB and NISE shall jointly develop and devise implementation strategies and time-bound action plans to effectively meet the desired objectives and goals. Financial arrangements for each specific activity will be decided on a case-to-case basis and brought on record in each case after due approval from heads of the institutions.
- (v) Nothing in this MoU requires either Party to obligate funds and any implementing arrangements shall be subject to the availability of funds. Specific Memorandum of Agreement (MOA) shall be signed, case to case, on the specific objective involved under this MoU, with details of all the scopes, budgetary, revenue sharing (if any) and other terms of reference.



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- (vi) Each designated representative shall appoint a program coordinator to be responsible under its auspices for the overall coordination of implementing arrangements.
- (vii) A joint Coordination Committee consisting of a nominee of Director General, NCB as Chairman and a nominee of Director General, NISE as Co-Chairman, and two nominees each from NCB and NISE, shall coordinate and monitor the academic and research programmes and all related operational matters within the framework of the objectives of NISE and NCB.
- (viii) The institutions agree that any unauthorized use of intellectual property shall be prohibited in the joint projects under this MoU.
- (ix) All cooperative activities undertaken pursuant to specific implementation arrangements under this MoU shall be subject to the respective laws, regulations, policies, administrative procedures and funding authority that govern the parties and their designated representatives.
- (x) In case of any dispute or differences arising between the Parties arising out of or in relation to this Agreement, the parties shall use their best efforts to settle such dispute through Mutual Consultation/Good Faith Discussions.
- (xi) This MoU shall be construed, interpreted and governed by the Laws of India, Courts at Chandigarh shall have exclusive jurisdiction subject to the arbitration clause as per provision of Arbitration and Conciliation Act, 1996.
- (xii) This MoU is effective from the date of signing and will remain in force unless revoked by the consent of the Parties.
- (xiii) The institutions shall be at liberty to terminate this MoU by providing a prior written notice of 30 days from one party to the other party of this MoU. However, in case of such



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early termination, the institutions shall not affect the ongoing educational, training, or research programmes.

**The undersigned being duly authorized thereto have signed this Memorandum of Understanding.**

SIGNED at Gurugram on this 29<sup>th</sup> day of July 2024, in two originals in the English language.

**For,  
National Council of Cement and Building Materials**

**Dr. L P Singh**

**Director General, NCB**

34 KM Stone, Delhi-Mathura Road (NH-2),  
Ballabgarh – 121004, Haryana

Dated: 29<sup>th</sup> July 2024

**Witness**

Signature: Kapil

Name: Kapil Kukreja

Designation: Group Manager.

**For,  
National Institute of Solar Energy**

**Dr. Mohammed Rihan**

**Director General, NISE**

GwalPahari, Faridabad Highway  
Gurugram – 122003, Haryana.

**डॉ. मोहम्मद रिहान/Dr. Mohammad Rihan  
महानिदेशक/Director General  
एन. सी. सी. बी. एम./National Institute of Solar Energy  
गुरुग्राम, हरियाणा-122003/Gurugram, Haryana-122003**

**Witness**

Signature: Chandan

Name: DR. CHANDAN BANERJEE

Designation: Dy. Director General