



# BIT Mesra – Interdisciplinary Research Clusters (BIRCs)

**Project / Cluster Proposal Submission Form**  
(To be submitted to: Office of Research / DRIE, BIT Mesra)

## Section A: General Information

1. Title of the Research Cluster (BIRC):

2. Thematic Area:

- ☐ Advanced Manufacturing & AI/ML Generative Materials Design
- ☐ AI, Data Science & HPC
- ☐ Energy & Sustainability
- ☐ Water, Environment & Climate Resilience
- ☐ Biodesign, Bioprocess, Computational Biology, MedTech & 3D Bioprinting
- ☐ Smart Infrastructure & IoT
- ☐ Robotics, Automation & Control
- ☐ Defence, Space, Remote Sensing & Strategic Technologies
- ☐ Cybersecurity, Blockchain & Trusted Systems
- ☐ Management, Innovation & Entrepreneurship
- ☐ Humanities, Policy & Technology Studies
- ☐ High-Speed Digital Data Communication & Antenna Systems
- ☐ AI-Guided Design of APIs (Active Pharmaceutical Ingredients)
- ☐ Other (please specify): \_\_\_\_\_

3. Broad Area: \_\_\_\_\_

Sub-Area / Theme: \_\_\_\_\_

(Example: Life Sciences → AI-guided Drug Discovery & API Design)

4. Proposed Cluster Duration:

- ☐ 1 Year
- ☐ 2 Years (Maximum)

5. Total Budget Requested (₹):

- ☐ ₹50 Lakhs
- ☐ ₹75 Lakhs

- ☐ ₹1 Crore
- ☐ Other (specify): ₹ \_\_\_\_\_

#### Section B: Theme Leader (Cluster Head)

- Name: \_\_\_\_\_
- Designation: \_\_\_\_\_
- Department/Centre: \_\_\_\_\_
- Email: \_\_\_\_\_
- Mobile: \_\_\_\_\_
- ORCID/Scopus ID (if any): \_\_\_\_\_

Major External Grants in Last 5 Years (brief):

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#### Section C: Core Faculty Members (Minimum 4, Interdisciplinary)

Sl. No.	Name	Department	Role in Cluster	Email
1				
2				
3				
4				
5				
6				
Additional (if any)				

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#### Section D: Background & Rationale (Max 1 Page)

- Scientific/technical background of the cluster theme
- National and global relevance
- Alignment with BIT Mesra strategic priorities

(Attach as Annexure if required)

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#### Section E: Objectives & Key Research Questions

List 3–6 specific, measurable objectives:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

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## **Section F: Work Packages & Milestones**

**Provide major work packages and timelines:**

**Work Package Description Lead Faculty Timeline Key Deliverables**

**WP1**

**WP2**

**WP3**

**WP4**

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## **Section G: Expected Outputs & Deliverables**

**(Provide quantitative targets)**

## **Section H: Translational & Societal Impact**

- **Industry relevance / commercialization potential**
  - **Startup / IP creation potential**
  - **Societal / policy impact**
  - **Alignment with national missions**
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## **Section I: External Funding & Sustainability Plan**

- **Target funding agencies (DST, DBT, SERB, DRDO, ICMR, BIRAC, MeitY, Industry, etc.):**
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- **Plan to sustain the cluster beyond BIRC funding:**
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## **Section J: Facilities & Infrastructure**

- **Existing facilities to be used**
  - **New equipment proposed (if any)**
  - **Shared facility plan**
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## **Section K: Budget Summary (Indicative)**

<b>Head</b>	<b>Amount (₹)</b>	<b>Justification</b>
<b>Equipment</b>		
<b>Consumables</b>		
<b>Software/Databases</b>		
<b>Testing/Characterization</b>		
<b>Travel (Project/Industry)</b>		
<b>Contingency</b>		
<b>Manpower</b>		

Head	Amount (₹)	Justification
Total		

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#### Section L: Compliance & Declarations

- No manpower support is requested under BIRC funding. ☐ Yes
- The project is interdisciplinary in nature. ☐ Yes
- The team agrees to annual review and performance reporting. ☐ Yes

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#### Signatures

Theme Leader:

Name & Signature: \_\_\_\_\_ Date: \_\_\_\_\_

All Core Faculty Members:

(Attach signed consent sheet)

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#### For Office Use Only

- Proposal ID: \_\_\_\_\_
- Date of Receipt: \_\_\_\_\_
- Review Committee Remarks: \_\_\_\_\_
- Approved Budget: \_\_\_\_\_
- Approval Authority: \_\_\_\_\_