**Ref. No.: BIT/IPC/**

**Date:**

1. **Title of the invention:**
2. **Name, Address, Email Id, and Phone Number of Inventors:**

[*For visiting scientists, please give details of the substantive employer.*]

**Inventor #1**

**Inventor #2**

**Inventor #3**

**Inventor #4**

**3. Brief description of the invention:** *(How this invention relates to new processes, systems, machines, compositions of matter, etc.)*

**4. Detailed description of the invention**.

**4.1 State of prior art**

1. Prevailing **state of the art**?
2. **Literature search** relating to this invention? *[Please include a copy of the resulting documentation and reprints of publications.]*
3. **Prior art/patent search** relating to this invention? *[Please include a copy of the resulting documentation and reprints of patent documents: if a computer database search has been resorted to, please give the website details and the Key Words used in the search.]*

**4.2 Description :***(Describe the invention so that other Institute faculty knowledgeable in the field can evaluate its technical and commercial merits.)*

**4.3 Novelty:** *(Highlight the features described above that make the invention novel.)*

**4.4 Inventiveness:** *(Are the novel features inventive based on 4.1(a) above, and, if so, how?)*

**4.5 Advantages** *(over comparable inventions or practices)***:**

**4.6 Testing:** *(Has the invention been tested experimentally? If so, details of experimental data to be*

*supplied.)*

**5. Funding and support**

1. Was there significant use of Institute equipment and facilities? **Yes**
2. Was the invention supported by research grants/contract from external sources? **Yes**

If **YES,** please give details:

(a) Sponsor :

(b) Grant/contract no. :

(c) Period of grant/contact :

(d) Principal investigator and co-investigator:

*(even if they are not inventors within the purview of this document and will not share the credit and royalties)*

(e) Has the sponsor been informed of the invention? *(state whether required under grant/contract award conditions)*

(f) Was the work done under any other agreement? Give details. NO

**6. Information for protection of IPR: conception and disclosure** *(Accurate data is required as prior disclosure may affect the possibility of obtaining patent rights.)*

|  |  |  |
| --- | --- | --- |
|  | Date  | References/comments |
| Date of the conception of this invention.Has this date been documented?If so, where and how? |  |  |
| Has this invention been presented at seminars/ discussions other than those that form the student's degree program requirement? |  |  |
| Please provide the anticipated date of submission for publication or communication for presentation at seminar/conference etc. (Should not be earlier than one month from this date) |  |  |
| Has the invention been reduced to practice? |  |  |

**7. Commercial potential**

* 1. List of probable users of the technology (class of industries/organizations or target companies):
	2. List of probable organizations who may be interested in technology transfer (target industries or companies or other organizations):
	3. Potential marketability including commercial suggestions [viable size of the industry, equipment, raw material, and human resources requirement under different skill levels, import component, export potential, other relevant economic information]

**8. Prior disclosure and possible intent:**

* 1. Has the invention been disclosed to industry representatives or their parties?
	2. Has any commercial organization shown interest in this invention? Give details.

**9. Development Stage:**

What is the current stage of development of the invention as it relates to commercial utilization and marketability:

 Embryonic

 Partially developed

 Fully developed

**10. Potential for international patent:**

Does the invention have significant commercial potential in foreign countries?

If so, where? Give details.

**11. Declaration:**

I/We declare that all statements made herein are true to the best of my/our knowledge. I/We hereby agree to hold the right of intellectual property of this invention jointly with Birla Institute of Technology, Mesra, Ranchi. Birla Institute of Technology, Mesra, will share any royalty income derived from the invention with the inventor(s) according to the IP policy of the Institute in force. The Intellectual Property of this invention will be protected by the Birla Institute of Technology, Mesra, based on its merit and commercial viability.

Note:

1. A patent confers the right upon an inventor to commercially exploit an invention for a limited period. Patents can be lost by disclosing the details of an invention to the public before filing a patent. Unlike copyright, a patent is not an automatic right. To obtain a patent, the proposed invention should be novel (not published elsewhere), inventive (not obvious to persons familiar with state of the art), and industrially applicable (should have utility). Once the patent is sealed, the patentee can sue for damages to anyone who attempts to exploit the patented invention without the patentee's consent.
2. This document should be prepared with due care. The formal patent application will be prepared only from the information provided herein.
3. The completed disclosure form with annexures should be submitted to :

**Chairman, Intellectual Property Cell (IPC)**

**Birla Institute of Technology, Mesra Ranchi**

**Email: ipc@bitmesra.ac.in**