

CSIR TECHNOLOGY AWARDS - 2022

GUIDELINES & PROFORMAE FOR NOMINATIONS

**Technology Management Directorate
Council of Scientific & Industrial Research
Vigyan Suchna Bhawan,
14, Satsang Vihar Marg
New Delhi-110067
Email: CTA2022@csir.res.in**

2022

CSIR TECHNOLOGY AWARDS

BRIEF DETAILS

'CSIR Technology Awards' were instituted in 1990 to encourage multi-disciplinary in-house team efforts and external interaction for technology development, transfer and commercialization. These awards are in the categories of:

- (i) Life Sciences;
- (ii) Physical Sciences including Engineering;
- (iii) Innovation (to be awarded to the best innovation that has been patented in any area);
- (iv) Business Development and Technology Marketing; and
- (v) Most Significant CSIR Technology of the Five Year Plan Period.

Whilst, the awards in the category (i) to (iv) carry the cash prize of Rs. 2 lakh each, the award for the "Most Significant CSIR Technology of the Five Year Plan Period" has a cash prize of Rs. 5 lakh. The prizes are shared among the individual/members of the teams/group(s). In case the prize awarded to joint winners, both receive the cash prize in full. The award category 'Most Significant CSIR Technology of the Five Year Plan Period' which is awarded once in five years, has been awarded last in 2020. Hence this year, nominations only first four categories of CSIR Technology Awards are sought. The winners will be announced on the CSIR Foundation Day-2022.

CRITERIA

The criteria for the awards in Life Sciences and Physical Sciences including Engineering shall be visible and sustained impact of a high order on the industrial/economic/ societal activity, high scientific content, innovative character, global novelty and competitiveness of the technological development(s). Technology Award for Innovation will be given to the best innovation that was patented in any area. Technology Award for Business Development and Technology Marketing is for making significant contributions for enhancing the business of CSIR knowledgebase and will be given for the new business & marketing initiatives, strategies evolved and implemented, quantum of business generated and realized.

NOMINATIONS

Nominations under following formats are invited from Directors, Director Level Scientists and RC Chairmen of CSIR laboratories.. **A technological achievement may be nominated for consideration of the Award for a maximum of three times only. A nominator for the award should not himself be the member of the group nominated for the award.** The nominations should be accompanied with supporting documents in respect of claims made in the nomination. Only those nominations meeting the above criteria will be shortlisted for the consideration of the Technology Award Selection Committee.

These nominations should be sent electronically (word as well as pdf) to CTA2022@csir.res.in latest by Monday Sept 5, 2022. Late and incomplete nominations will not be entertained.

**TECHNOLOGY AWARD FOR LIFE SCIENCES/ PHYSICAL SCIENCES
INCLUDING ENGINEERING (SPECIFY AS APPROPRIATE)**

APPLICATION PROFORMA

(Only soft copy to be submitted as word and pdf file)

- 1. Title of development** (Know-how/ Technology/ Process/ Technique/ Services etc.)
- 2. Inventors and contributors**
 - (a) **CSIR:** Name(s) and contact details of Group leader(s) and other major S&T personnel:
 - (b) **External to CSIR:** Name(s) and contact details of person(s)/ group(s):
- 3. General features**
 - (a) Brief description
 - (b) Date of commencement and completion of the project(s)
 - (c) Level of development
 - (d) Details of inputs made by intra-lab groups and inter-lab contributors
 - (e) Details of inputs by external person(s)/group(s) (if any)
 - (f) Estimated financial inputs for development (Rs. Lakh)
- 4. Special features of the development**
 - (a) Novelty/ innovativeness
 - (b) S&T challenges overcome
 - (c) Comparative positioning
 - (d) Any other (specify)
- 5. Commercialization details (support by documents)**
 - (a) Details of Technology transfer
 - (i) Mode of transfer
 - (ii) Role of external contributors (if any)
 - (b) Name(s) of the Licensee(s) utilizing the Development(s)
 - (c) Monies realized by the laboratory through licensing of the Development (Gross revenues generated / Turnover)
 - (d) Net surpluses generated
 - (e) Market Potential
 - (f) Market value generated
 - (g) Royalty received
 - (h) Additional Commercialization particulars, if any
- 6. Soft outputs pertaining to the development**
 - (a) Patents filed/granted (give title, year & country)
 - (b) Publications (give titles, journal name/ year)

- (c) Technical reports brought out (give titles, year and enclose best report)
- (d) Papers presented in symposium/ seminars (give details)

7. Impact of the development (support by documents)

- (a) Economic Impact:
 - (i) Estimated value of annual and cumulative output derived by each party
 - (ii) Quantify the contribution directly attributable to this technology/ development
 - (iii) Others (Specify)
- (b) Societal Impact:
 - (i) Employment generated
 - (ii) Value addition to raw materials and natural resources, if any
 - (iii) Environmental issues (pollution mitigated, averted etc.)
 - (iv) Others (please specify)
- (c) Strategic Impact, if any, please explain

8. Feedback from the licensee(s) (support by documents)

9. Formal recognition and awards conferred for the development (support by documents)

10. Any other significant aspect not highlighted above

11. Name, title and address of the nominator

Date:

(Signature of Nominator)

**TECHNOLOGY AWARD FOR
'INNOVATION' APPLICATION
PROFORMA**

(Only soft copy to be submitted as word and pdf file)

1. **Title of Innovation**

2. **S&T field of Innovation**

3. **Innovators and Contributors**
 - (a) **CSIR:** Name(s) and contact details of Group leader(s) and other major S&T personnel
 - (b) **External to CSIR:** Name(s) and contact details of person(s)/ group(s)

4. **Profile of Innovation**
 - (a) **Brief description of the innovation**
 - (b) **Technical challenges overcome**
 - (c) **Positioning of innovation** - Is it an improvement over existing one or a new one employing an original approach?
 - (d) **Comparative placement of the innovation in the specific area (national/ international)**

Are you aware of any competitor working on a similar innovation? If so, how is your approach / innovation superior to theirs?
 - (e) **Competitiveness**
 - (i) Has the innovation potential to bring in paradigm shift?
 - (ii) Would it poise for a major development to create a niche?
 - (iii) Does Innovation possess potential of providing global leadership to India?
 - (f) **Elaborate further developments planned on the innovation**
 - (g) **Role of external contributors (if any)**

5. **Market Potential**
 - (a) Areas of application
 - (b) What are the markets available for the innovation?
 - (c) How is the laboratory planning to market the innovation?

6. **Commercialization details**
 - (a) Gross revenues generated / Turnover

- (b) Market Potential
- (c) Market value generated
- (d) Revenue Accrued to the Laboratory/LRF
- (e) Royalty
- (f) Additional Commercialization particulars, if any

7. Outputs pertaining to the Innovation

- (a) Patents filed/granted (give number, title, year, country & enclose abstracts)
- (b) Publications (give titles, journal name/ year of publication)

8. Envisaged impact of the Innovation

- (a) Economic Impact:
- (b) Societal Impact:
- (c) Strategic Impact:

9. Formal recognition and awards conferred for the Innovation or on the persons for the Innovation

10. Any other significant aspect not highlighted above

11. Name, title and address of the nominator

Date:

(Signature of Nominator)

TECHNOLOGY AWARD FOR BUSINESS DEVELOPMENT & TECHNOLOGY MARKETING APPLICATION PROFORMA
(Only soft copy to be submitted as word and pdf file)

1. Contributors

Name(s) and contact details of Group leader(s) and other personnel:

2. Business generated

(a) External Cash Flow generated (Please indicate for last 3 years)

Rs in lakhs

Source	Contract R&D	Consultancy	GIA	Technical Services	Royalty/Premia
Industry (Pvt./PSUs)					
Govt. Deptt.					
International					
Others (pl specify)					

(b) Annual net earning/ surpluses accrued/ lab reserve generated or likely to accrue

3. Specific outstanding contribution(s)/ achievement(s) in business development and knowledgebase/ IP marketing (under the following categories)

- (a) Knowledgebase/ IP Licensed:
- (b) Contract Research materialized (Sponsored, Collaborative, Grant-in-aid):
- (c) Consultancy assignments materialized:
- (d) Technical services contracted:
- (e) Others (please specify):

4. Other Details

- (a) New clients added in the last 3 years
- (b) Gross revenues generated / Turnover
- (c) Market Potential
- (d) Market value generated
- (e) Revenue Accrued to the Laboratory/LRF
- (f) Royalty
- (g) Commercialization particulars, if any

5. Specific initiatives taken in (support by documents)

- (a) Identification/establishing linkages with prospective client(s)
- (b) New business mechanisms operationalized
- (c) Negotiations, pricing & contracting
- (d) Knowledge alliances catalyzed
- (e) Incubation setups facilitated

- (f) Assistance in transferring/ commercialization/ diffusion/ utilization of the knowledgebase i.e. for:
 - (i) Technology & IP mapping
 - (ii) Evaluation & up-scaling, benchmarking
 - (iii) Packaging the knowledgebase
 - (iv) Identification of new applications/ around the knowledgebase
 - (v) Special marketing including publicity efforts
 - (vi) Any other (please specify)
- (g) Enhancing customer satisfaction/delight
- (h) Any other (please specify)

6. Status of implementation/utilization of the marketed knowledgebase (support by documents)

- (a) Name of parties utilizing/formal beneficiaries of the marketed knowledgebase
- (b) Annual (estimated) value of output/ exports/benefit derived by each party/ beneficiary
- (c) Cumulative (estimated) value of output/ exports/ benefit derived by each party/ beneficiary
- (d) Exports of knowledgebase (give details of parties, countries etc.)
- (e) Societal Impact (quantify)
 - (i) New employment generated (man-days/years)
 - (ii) Environment pollution mitigated/ averted (explain)
 - (iii) Quality of life improved (health/hygiene levels etc.)
 - (iv) Enhanced safety/reduced hazards/risks
 - (v) Others (please specify)
- (f) Strategic Impact (please explain)

7. Response and feedback from the licensees/ beneficiaries/ NGOs and others (support by documents)

8. List information such as

- (a) Evolution & adoption/ implementation of new marketing strategies
- (b) New avenues, markets and mechanisms explored/adopted for enhancement of business and External Cash Flow (ECF)
- (c) Business enhancement/ credibility improvement initiated
- (d) Any other initiatives/ efforts

9. Formal recognition and awards conferred for the work done (support by documents)

10. Any other significant aspect not highlighted above

11. Name, title and address of the nominator

Date:

(Signature of Nominator)