Rajiv Gandhi Science & Technology Commission

Government of Maharashtra

Dr. A.V. Sapre
Member Secretary

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Date: 31st March, 2016.

Sub: RGSTC- TIFAC Internship Scheme for Providing Technical support to MSMEs by Leveraging the Capabilities of Students and Faculty of Polytechnics in Maharashtra.

Dear Dr. Wagh,

I am writing you in pursuance of the discussions we had on 30th March 2016 with Dr. Anil Kakodkar, Chairman, RGSTC, regarding the above mentioned scheme. Dr. Suresh Yavalkar, Dy Director, DTE, and Prof. V.V. Mahajani, Advisor, RGSTC, were also present.

Rajiv Gandhi Science and Technology Commission have approved this scheme with the objective of bridging together the need to provide hands on problem solving experience to students as well as faculty and support needed for problem solving and technology upgradation in the industry. You have provided active support and helped in identifying potential Polytechnics to get the scheme started. However, during the presentations made by the interested polytechnics, the Project Appraisal Committee of the Commission noticed that accommodating the necessary contact period, in two spells, as has been considered necessary to achieve the desired results is difficult to manage in the present structure of the Diploma Course.

In the above background, yesterday's discussion was very useful. We all agreed that such a scheme is essential in the context of nurturing a culture of innovation that has become more important than ever before. We discussed the feasibility of the scheme and possible options for its implementation without compromising its core objectives. Consensus emerged on the following points.

1. The 6 months project work in 2nd phase of the scheme may be preferably done on a full time basis. This may be feasible in case of autonomous polytechnics.
2. In case of other polytechnics, the 6 months project work may be carried out during vacation periods (beginning with summer vacation after second year). The shortfall can be made up through concurrent work during holidays (whenever industry is functioning) and extra hours outside the period when the student is required to be at the polytechnic. It was opined that this should be

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feasible while remaining fully consistent with the guidelines of the regulator (AICTE,...). For effectiveness, such polytechnics should be close to MSME clusters participating in the scheme. We could also consider similar approach in the context of technology needs in tribal and rural areas. STRC at GUG was mentioned in this context.

3. Details of the scheme should be quickly worked out in consultation with concerned stakeholders.
4. The scheme may be launched during the academic year 2015-16.
5. To begin with 2 normal polytechnics and 2 autonomous polytechnics may be selected to launch the scheme.

Considering these points, please suggest the necessary modifications in the scheme guidelines. Your help is also needed in completing the process of selecting the most suitable polytechnics. The process has to be completed by 3rd week of April 2016 to enable the institutions to select interns in time to start the assignment in May 2016.

With regards,

Yours sincerely,

(A.V. Sapre)

Dr. Abhay Wagh,
Chairman,
Maharashtra State Board of Technical Education,
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Cc to

Dr. S.K. Mahajan,
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Scheme for Providing Technical Support to the MSMEs by Leveraging the Capabilities of Students and Faculty of Polytechnics in Maharashtra

1.0 Background

The MSMEs in India have made maximum contribution to employment and exports. However, due to lack of resources (finance, knowledge, network, in house capabilities etc), thin margins and increasing market competition; they have not been able to infuse technology in a continuous manner, prevent obsolescence and as such many of them have become technologically deficient over a period of time. The MSME Program of TIFAC has been developing industry – academia interaction platform where the MSME cluster industries and the nearby Technical Institutions interacts towards utilizing the technical capabilities and expertise of the academia for providing R&D and technical support to the cluster industries.

However, It has been felt that the interaction of technical institutes with the cluster industries has remained rather limited and restricted to the level of faculty only (project/study investigators) with little or no involvement of students.

Our Academia/technical institutes India has vast pool of human resource in the form of students. These students are not sufficiently oriented towards reaching out to the MSME Sector. The enormous student and faculty resource of engineering and higher technical institutes could be of immense benefit to the cluster industries towards addressing their technical problems besides facilitating adoption of relevant technologies. Greater involvement of students and faculty with industries may also help in developing an innovation culture into the MSMEs by way of access to human resource to transform their innovative ideas into reality.

Such an approach, will also facilitate greater opportunities for students for hands on practical experience of working in the industries and developing closer linkages with industries which may prove beneficial for them in terms of honing their skills and knowledge and make it more industry relevant.

Thus, this proposed new scheme would encourage enhanced and continued involvement of students and faculty of technical institutions with industries and provide technical support to the otherwise technologically deficient MSMEs. More importantly, such a process should be able to nurture an innovation ecosystem which could benefit both the MSMEs as well as the technical institutions.

2.0 Objectives

- Creation of a platform for establishing interaction between academia and MSME industries on a mutually win-win basis.
- Establishing a platform for the MSME cluster industries to access R&D and technical support leveraging the knowledge base of faculty and knowledgeable human resource in the form of students from of technical institutions.
- Providing hands on engagement and practical experience to the students and faculty on existing / technical challenges in the industry and nurturing an innovation ecosystem that benefits both the industry as well as the technical institution.

3.0 Proposed Modalities

3.1 Criteria for Selection of Institutions

- Polytechnics, either owned by Govt. or recognized by AICTE.
- Institution and concerned Department to have a prior and proven track record of research work, extra mural funding, R&D consultancy and working with industries in the desired domain. Preference to be given to such Institutes having track record of reaching out to MSMEs.
- The Institution should preferably be more than 10 years old with concerned Department (to which faculty and students belong) not less than 7 years old.
- To start with a maximum of five (5) polytechnics would be commissioned.

3.2 Identification of Students

- Polytechnic to engage students pursuing Diploma. Activities (training, project work) under this scheme at Stage 1st and Stage 2nd should be part of the academic requirement for the students.

- The institutes may source students from their own courses or from the recognized similar other institutions.

3.3 Mentoring Faculty

- The mentoring faculty to be of the level of Assistant Professor and above.
- The mentor should have broader domain knowledge relevant to the problem expected to be tackled with the industry.

3.3 Financial Support

The support will be provided to the selected Polytechnics in two stages – **1st Stage and 2nd Stage**. The 1st Stage support will be a fixed support (Maximum of Rs. 2.70 lakhs/annum) for each polytechnic. The 2nd stage support (Maximum of Rs. 2.37 lakhs per project) will be project based variable support to be provided depending on project work.

The Polytechnic to be responsible for the execution of the project as per the agreed terms and conditions.

3.3.1 Support Modalities:

- **1st Stage Fixed Support** : Rs. 2.70 lakhs (one time annual support to the Institute)

Duration: 2 months

- 2nd Stage Variable Project Based Technology Development Support: Max. of Rs. 2.37 lakhs for each project depending on extent of project work and to be provided in installments based on project progress.

  Project Duration: 6 months (from the date of project sanctioning including testing/trial period in industry, if any required)

Break up of Support to be Provided to the Institutes

Stage 1st – Rs. 2.70 lakhs (Fixed)

Sr. No.	Items	Cost (Rs)
1	*a) Student Stipend	Max. 1,80,000 (@3,000/student /month for 2 months internship) – for Max. 30 student interns/Institute
	b) Honorarium to Scheme Coordinator	**Rs. 20,000 (Max)** – one time
2	^Travel Cost	Max. 20,000 (@ 10% of manpower cost)
3	#Institute Overhead	Max. 40,000 (@ 20% of manpower cost)
4	Miscellaneous and Contingency	Max. 10,000 (@ 5% of manpower cost)
	Total	2,70,000

As Stage 1st is the internship support, so costs under item 2,3, and 4 in the above table has been calculated based on maximum of fixed support (stipend to number of internships supported with a maximum of 30 internships in a year from polytechnic + Honorarium to scheme coordinator) .

* The manpower cost is calculated @ of 30 students performing internship in MSME industries for 2 months (maximum period) with a stipend of Rs. 3,000/month to a student intern.

\# The polytechnic may provide incentive to the mentoring faculty (ies) from the Institute Overhead as per its norms.

^ Travel cost to cover the cost of all travel related to this scheme under stage 1st.

Note: In case of less number of students are placed for internship in industries, the total Stage 1st fixed component support to be calculated accordingly. The Institute has to provide a separate Utilization Certificate and Statement of

expenditure for the fixed support to RGSTC. Unspent fund to be adjusted further on or returned to RGSTC as the case may be.

Deliverables by Polytechnics for Stage 1st:

- Interaction with MSME clusters/industries to get an initial feel of their technical problems/challenges and to decide on the placement of students with the industries.
- Identification of students to be placed in nearby industries based on requirement of industries received.
- Placing appropriate students (one or two) in industries based on student's background and interest and area of work of the industry.
- Facilitating initial interaction of students with industries.
- Identifying technical problem/challenge of industries through students under the guidance of mentoring faculty.
- Mentoring of students by faculty (one or two) towards defining the problem statement, defining a credible work plan for developing an appropriate low cost and easily adoptable, time bound solutions and preparing proposals based on such proposed solutions for consideration of 2nd Stage support.

Stage 2nd: Rs. 2.37 lakhs (Maximum) for each project

Sr. No.	Items	(I) Cost (Rs)	(II) Cost (Rs)
1	*a) Student stipend (Variable depending on number of students)	Max. 72,000 (@ 6,000/student and 2 students /project for 6 months)	Max. 36,000 (@ 6,000/student and 1 student /project for 6 months)
	b) Honorarium to Scheme Coordinator	**Max. 30,000** – one time	**Max. 30,000** – one time
2	Development Cost	**Max. 1,00,000** (subject to actual)	**Max. 1,00,000** (subject to actual)
3	^Travel Cost	**Max. 10,000** (@ 10% of development cost)	**Max. 10,000** (@ 10% of Development cost)
4	#Institute Overhead	**Max. 20,000** (@ 20% of development cost)	**Max. 20,000** (@ 20% of development cost)
5	Miscellaneous and Contingency	**Max. 5,000** (@ 5% of development cost)	**Max. 5,000** (@ 5% of development cost)
	Total	**Rs. 2.37 lakhs**	**Rs. 2.01 lakhs**

As stage 2nd is the solution development stage so costs under item 3, 4 & 5 in the above table have been calculated on the basis of development cost. The above

table shows support for two models (I & II) based on number of students /project (1 or 2).

*The stipend to students include the stipend @ 6,000/month to 1 project student for 6 months duration. RGSTC will support at the Max. 2 students per project. If more students are involved the industry or the Institute has to bear the additional cost, if any.
#The Institute may provide incentive to the mentoring faculty (ies) from the Institute Overhead as per its norms.
^ Travel cost to cover the cost of all project related travel under stage 2nd.

Note: The Institute has to provide a separate Utilization Certificate and Statement of expenditure for each of the project. Unspent project fund to be adjusted further on or returned to RGSTC as the case may be.

Note: The industry to participate in each project in cash or kind. In case of cash participation by the industry (preferred mode), the total project cost to be worked out accordingly.

Deliverables by Institutes for Stage 2nd:

- Developing complete and finalized proposals based on comments and initial screening duly vetted by the concerned industry.
- Presenting the proposals by faculty and students (along with concerned industry) to the Technical Screening Committee (TSC) constituted for the purpose of screening proposals.
- Project once approved, developing solutions in time bound manner.
- Monitoring the project and submitting progress reports to RGSTC.
- Installing the developed solution in industries for testing and trial.
- Submitting final project report endorsed by industry to RGSTC.

3.4 Type of Solutions

Working on problems of common nature concerning MSME cluster industries would be preferred to be taken up for development of solutions. The solutions need to be of a nature that can facilitate easy adoption by the concerned industries. In case of problems pertaining to specific MSME industry, participation of that industry in cash may be required for development of solutions. The solutions of the following types may be supported:

- **Raw material:** definite improvements in quality, testing etc
- **Process:** modification with a view to ease the process, intensify the process, reduce wastage/rejects, make the process efficient, process automation, new process, new machine development etc

- **Product:** development of altogether new product, improvement in product quality, addition of new features in product etc
- **Design:** modification of existing design, new designs etc
- **Packaging**
- Any other with the acceptance of industries and concurrence of TIFAC

Note: The solutions need to be low cost and easily acceptable and practically adoptable/implementable in industries. Identified problems and proposed solutions related to areas like pure software, arms and armaments and herbal formulation etc and those requiring long term testing and trials will not be considered.

3.5 Broad Implementation Mechanism:

a) Identification and defining the technical needs or problem of specific industries.

Initiation in MSME Clusters

- RGSTC to begin with would start the initiatives in such clusters where a technology gap study has already been completed and the problems have been broadly assessed at an aggregate level.
- However, other MSME industries in the vicinity of the Polytechnic may also be considered depending upon the interest of industries.

b) The nearby identified polytechnics to interact with the concerned and respective Industry Associations and individual industries to assess their requirement of students and subsequently defining the problem and designing probable and easily adoptable solution.
   - To begin with around 6 -7 specific technical problems may be identified by the Polytechnic.
   - A maximum of three (3) projects would be allotted for implementation in 2nd stage to any one particular Polytechnic.

c) **Problem Definition & Address:** Mentoring of students by the academia towards reaching out to the industry to design an appropriate solution.

Activities

- The polytechic to mentor students from the associated fields/ backgrounds towards reaching out to the industries.
- The academia provides own existing R&D infrastructure for any research activities, if required during the internship as also during the project period.

- For this, the academia also receives an additional support from RGSTC (fixed support) - to meet the institutional requirement and also for the time consumed of faculties.

- Students interact with Industries and "work" on the "problem" during a defined period and come up with an appropriate low cost solution. The "solution" to be vetted by the industry and academia and solution is recommended / provided to the industries.

d) **Industry**

- The industry to provide full access to students during the internship and also during the project period, if needed.

- The industries to allow the installation of the developed solution and testing and trial of the solution in its premises for a defined period.

3.6 Specific Roles and Responsibilities

RGSTC

- Identify 4-5 MSME clusters and assess cluster requirements of students as training interns. However, identification of cluster may also be to be undertaken with the proposing Polytechnic.
- Select and associate/link one nearby polytechnic with each of these clusters.
- Facilitate initial dialogue of polytechnic with cluster industries/association.
- Guide, mentor and monitor the activities of the polytechnic.

Polytechnic

- Interact with MSME cluster industries and identify/assess appropriate number of students for placing in industries.
- Attach a guide (faculty) with the student interns towards mentoring the students.
- Identify technical problem and appropriate low cost easily adoptable/implementable solutions in consultation with industries.
- Prepare complete proposals and present the same to RGSTC for consideration
- Develop solutions as per industry requirement and install the same in the industry for testing and trial.
- Prepare comprehensive project report for submission to RGSTC.
- Monitor and mentor the students during the period of internship and project period.
- The project guiding/mentoring faculty (ies) to be the main anchor responsible/accountable for the completion of the projects from the side of institute.

3.7 Monitoring and Screening Mechanism

Monitoring: A monitoring Committee (area wise) to be constituted by the Institute in consultation with RGSTC for approved projects of a particular area consisting of

domain experts to guide, monitor and review the project progress. Technical help may also be provided to the Institute during proposal preparation through Local Experts.

Two Stage Screening Process:

1st Stage Screening:

a) Each proposal from the Institution on a particular problem of the industry to be screened / shortlisted by the Institute initially for completeness and feasibility with the help of locally available technical experts and relevant industry persons.

2nd Stage Screening:

a) Only finalized / shortlisted proposals after incorporating comments to be finally screened for consideration of RGSTC project support at the Institute level through a Technical Screening Committee (TSC) having participation of RGSTC, Institute, Experts and Industries.
b) The finalized proposals to be presented by the Institute (Faculty and students) to the Technical Screening Committee.
c) Recommended projects by the TSC will be considered for RGSTC support.
d) Only approved proposals will be eligible for getting project support from RGSTC depending on extent of project work.

3.8 Perceived Advantages of the Proposed Scheme

For Industries:

- Continued technical and R&D support through nearby Institute
- Low cost and easily adoptable custom made solutions to address their problems
- Opportunity to engage the students in the industry – as the student would have already proved the credentials and is already familiar to the industry

For Institutes

- Greater interaction opportunities for students and faculty (academia) with the industries –enhanced participation of academia in practical problem of industries
- Better and focused training opportunities for students in nearby industries and real hands on experience to the students in the industries
- Add on possibility for Institutes towards placement of students in industries – as a result of enhanced interaction between industries and institutes
- Practical problem of industries may form part of student project required by course curriculum.
- Selected projects with good industrial impact and knowledge value may be awarded – recognition to faculty and students

- Ample opportunities for new IP and knowledge generation in the form of patents and research/review papers etc

3.9 General Terms and Conditions

1. All support under stage 1st and stage 2nd will be provided to the Polytechnic. The institute to open a separate account to handle RGSTC's support.
2. The Institute to strictly follow RGSTC's guidelines for support.
3. The institute to vest the responsibility of coordinating the scheme at its end to a responsible and senior official (faculty or non – faculty). The coordinator of the scheme will be the one point source /contact for all correspondences/communication and with accountability to RGSTC in matters related to this scheme. The institute to engage not more than two students on a particular identified problem.
4. The Institute to work out a proper mechanism for engaging students from other Institutes also.
5. The institute may place any number of interns in the industries. But, the support will remain the same and as per the budget break up and support modalities. Excess funds if any, required at any stage to be arranged by the industries or by the Institute during the internship as also during project. .
6. The maximum number of projects to be taken up from each institute at a time to be not more than three.
7. The Institute will be responsible for all activities of the students during their internship as also during the project period. The internship as well as project work should be part of the academic requirement for the students.
8. Problems and solutions pertaining/related to pure software, arms and armaments and herbal formulation etc and those requiring long term testing/trials will not be considered.
9. The institute has to return back the unutilized fund to RGSTC from Stage 1st and Stage 2nd support.
10. If any project gets foreclosed, the institute has to return back the unutilized fund immediately.
11. The institute has to submit the utilization certificate and statement of expenditure for the fixed support and for the project support.
12. Funds for projects to be released in installments to be decided by RGSTC.
13. The institute will be the owner of the solution or technology developed. The institute to allow details or provide solution to any industry on demand.
14. Any IPR generated as a result of the project will belong to the institute and or to the industry as the case may be to be decided between the institute and the industry. RGSTC will have no role in IPR matters.
15. Mere submission of application for engagement of institute or submission of project proposal to RGSTC under this scheme will not entitle for engagement of support. The decision of RGSTC will be final.

16. Institute will be responsible for designing and delivery of appropriate technical solutions to the Industry and also for any subsequent issues arising out of it, if any.

Annexure 2
Empanelment of Polytechnics

Detailed Advertisement

I. **Background**: The MSMEs in India make significant contribution to employment and country's exports. However, due to lack of resources (finance, knowledge, network, in house capabilities etc), thin margins and increasing market competition; they have not been able to infuse technology in a continuous manner, thus technological obsolescence and as such many of them have become technologically deficient over a period of time. The MSME Program of TIFAC has been facilitating putting up of industry – academia interaction platforms where the MSME cluster industries and the nearby Technical Institutions interact towards utilizing the technical capabilities and expertise of the academia for providing R&D and technical support to the cluster industries. So far, interaction of technical institutes with the cluster industries have remained largely restricted to the level of faculty only (project/study investigators) with little or no involvement of students.

On the other hand, our Academia/Technical Institutes have vast pool of human resource in the form of students. However, these students are not sufficiently oriented towards reaching out to the MSME Sector. The enormous student and faculty resource of engineering and higher technical institutes could be of immense benefit to the cluster industries towards addressing their technical problems besides facilitating adoption of relevant technologies. Greater involvement of students and faculty with industries may also help in developing an innovation culture into the MSMEs by way of access to human resource to transform their innovative ideas into reality. This approach is expected to facilitate greater opportunities for students for hands on practical experience of working in the industries and developing closer linkages with industries which may prove beneficial for them in terms of honing their skills and knowledge and make it more industry relevant.

It is expected that this scheme would encourage enhanced and continued involvement of students and faculty of technical institutions with industries and provide technical support to the otherwise technologically deficient MSMEs. More importantly, such a process should be able to nurture an innovation ecosystem which could benefit both the MSMEs as well as the technical institutions in the country.

II. **Scheme Objectives**

- Creation of a platform for establishing interaction between academia and MSME industries on a mutually win-win basis.
- Establishing a platform for the MSME cluster industries to access R&D and technical support leveraging the knowledge base of faculty and

knowledgeable human resource in the form of students from of technical institutions.

- Providing hands on engagement and practical experience to the students and faculty on existing technical challenges in the industry and nurturing an innovation ecosystem that benefits both the industry as well as the technical institution.

III. Eligibility Criteria:

- Polytechnics either owned by Govt. or recognized by AICTE.
- Institution and concerned Department to have a prior and proven track record of research work, extra mural funding, R&D consultancy and working with industries in the desired domain. Preference to be given to such Institutes having track record of reaching out to MSMEs.
- The Institution should preferably be more than 10 years old with concerned Department (to which faculty and students belong) not less than 7 years old.
- To start with a maximum of five (5) polytechnics would be selected.

IV. Financial Support From RGSTC

The support will be provided to the selected Institutes in two stages.

The 1st Stage support will be a fixed support (Maximum of Rs. 2.70 lakhs/annum) for each polytechnic for internship of students in MSME industries towards identification technical problem of industries and development of problem statement.

The 2nd stage support (Maximum of Rs. 2.37 lakhs per project) will be project based variable technology development support to be provided depending on project work to selected projects.

The Institutes will be responsible for organizing the internship of students in MSMEs as well as for execution of the technology development project as per the agreed terms and conditions.

V. What do we expect from Institutes:

Deliverables

- Interaction with MSME clusters/industries to get an initial feel of their technical problems/challenges and to decide on the placement of students with the industries.
- Identification of students to be placed in nearby industries based on requirement of industries received.

- Placing appropriate students (one or two) in industries based on student's background and interest and area of work of the industry.
- Facilitating initial interaction of students with industries.
- Identifying technical problem/challenge of industries through students under the guidance of mentoring faculty.
- Mentoring of students by faculty (one or two) towards defining the problem statement, defining a credible work plan for developing an appropriate low cost and easily adoptable, time bound solutions and preparing proposals based on such proposed solutions for consideration of 2nd Stage support.
- Preparing a report/booklet of the identified industrial problems by students and details of proposed solutions to be handed over to the industries and to RGSTC.
- Developing complete and finalized proposals based on comments and initial screening duly vetted by the concerned industry.
- Presenting the proposals by faculty and students (along with concerned industry) to the Technical Screening Committee (TSC) constituted for the purpose of screening proposals.
- Project once approved, developing solutions in time bound manner.
- Monitoring the project and submitting progress reports to RGSTC.
- Installing the developed solution in industries for testing and trial.
- Submitting final project report endorsed by industry to RGSTC.

VI. **Selection Criteria for Empanelling Institutes:** Procedure

a. Preliminary screening of application/proposal by RGSTC
b. Presentation of proposals by Invited Institutes
c. Final selection based on decision of Project Appraisal Committee

VII. **Dead line for the submission of the application/proposal**: 21 days from the date of publication of advertisement in newspaper inviting proposals under this scheme.

*Note: Initially a contract of **two** years will be awarded to selected Polytechnics to operate this scheme under RGSTC - TIFAC's MSME Programme. An agreement will be signed between TIFAC and the selected Institutes. Extension of contract is subject to the performance of the institutes and/ or on the decision of competent authority of RGSTC.*

Empanelment of Polytechnics

Application Format

I. **Information about the Polytechnic.**

i. Name of the Institute.....

ii. Full Address.....

iii. Name and designation of proposed scheme coordinator/ nodal person and contact detail (Phone no. & Email ID).....

(Nodal person should be senior official faculty or non –faculty permanently employed by the Institute)

iv. Date & Year of establishment of the Institute.....

v. Details of existing Departments/Centers:

Name of the Department/Centers	**Year of establishment (to be calculated based on proper approvals by UGC/AICTE)**	**Facilities in the department (Labs/other research facilities)**

vi. Latest Rating of Institute/accreditation by Govt., **if any**.

vii. Recognition/awards/acclamations etc. received by the Institute or by any Institute Department related to performance or by students and faculty of Institute (Provide details), **if any**.

viii. Approval status (HRD/UGC/AICTE etc.).

Sl. No.	Course (Diploma)	Date & year of Course initiation and approval	Course wise Faculty information (Provide Details as in **Annex-I**) & Infrastructure (Provide details in **Annex-II**)

ix. Information about extra mural funding, research project executed/technologies developed/technical & management related consultancy activities including industrial consultancy assignments undertaken, studies /innovations developed, technology commercialization & transfer activities, innovation support system etc. (**Annex-III**)

x. Details of activities undertaken during last 3 years towards reaching out to MSMEs or providing technical or R&D related support to MSMEs.

xi. Details about existing activities related to Science & Technology and existing centre of excellence, if any (if necessary provide information in separate sheet).

xii. National/international events organized related to innovation/technological exhibition/workshop/technology transfers/S&T exhibitions in last three years (provide details in separate sheet), if any.

xiii. National/International collaboration (specific areas), if any (provide details).

xiv. Any other information

xv. Why you are interested in being empanelled under this scheme (brief write up attach a separate sheet).

II. Information about MSME Cluster (s) / MSME Industries in the vicinity of the Institute

i. Name (s) of the MSME cluster/MSME industries

ii. Expected no. of micro, small and medium enterprises in the vicinity/cluster

iii. Products manufactured by MSME cluster/MSME industries

iv. Perceived technical issues and challenges in the cluster industries /MSMEs

v. Concerned disciplines/departments of the Institute which can work with the above MSME clusters/MSME industries depending on area of work of the MSMEs.

vi. Linkage of the Institute with the MSME cluster/MSME industries. In what way/form? Pl. specify.

vii. Is the MSME cluster industries/MSME industries ready to place students from your Institute for internship purpose initially and for project execution.

Undertaking by the Institute

The information provided above is true and to the best of Institute's knowledge. If anything is found false or incorrect at any stage, the empanelment of the Institute may be cancelled by TIFAC without any prior notice to the Institute.

Signature and Name of Head of the Institution with date and seal

Endorsement by MSME Cluster Industry Association / MSME Industries

We, the ----------(Industry Association) have read the TIFAC scheme and we are ready to provide internship opportunities and project opportunities to the students of ----------(Institute Name). We will provide our best possible help and infrastructural support to the students placed in our industries during internship as well during project period. We also agree to facilitate testing and trial of solutions developed by students in our industries and their further adoption.

Signature and Name of the authorized signatory from Industry Association with date and seal.

(Note: In case there is no registered industry association then please endorse the proposal by few industries in the vicinity of the institute)

Annex-I

Name of Course	No. of Professors or equivalent	No. of Associate Professors or equivalent	No. of Assistant Professors or equivalent

Annex-II

Name of Course	Labs/workshops (Facility details)	Library	Centre of Excellence

Annex-III

	Total no.	Name /title of the Project/technology	Sponsor name Address & Contact details (Agency/industry for which activity performed)	Status/Remarks
Research Projects Executed		i. ii.		

		iii.....so on		
Technologies Developed		i. ii. iii.....so on		
Technical Consultancies taken		i. ii. iii.....so on		
Management Consultancies taken		i. ii. iii.....so on		
Technology transferred/licensed/commercialized		i. ii. iii.....so on		
Extra Muar Funding for studies/projects		i. ii. iii. .... So on		
Innovation support system created				