



INSTITUTE OF CHEMICAL TECHNOLOGY

STRATEGIC PLAN FOR THE FUTURE

AN APPEAL TO CORPORATES

The Institute of Chemical Technology (ICT), Mumbai is a unique Institute which was established on 1st October 1933 as a University Department of the Bombay University (UDCT), which has created its own brand over the years. Under the TEQIP it was granted full autonomous status in 2004 and declared as Deemed-to-be University on September 12, 2008 by the MHRD under Section 3 of the UGC Act of 1956. It was granted an Elite Status and Centre of Excellence on par with IITs, IISc and IISERs in the State Assembly on April 20, 2012 by the Maharashtra Govt. based on its stellar performance on par with institutes of national importance. Web of Science shows that ICT is number one under Category normalized citation impact of 0.98.

ICT, Mumbai is housed on 16 acres in Mumbai and is running 9 UG (Chemical Engineering; 7 branches of Chemical Technology; 1 Pharmacy), 18 PG (9 interdisciplinary) and 29 Ph D programmes (11 interdisciplinary), 1 PG Diploma in Chemical Technology Management for doctoral students and 1 PG Certificate Course in Chemical Safety and Risk Management for all Masters students. ICT is governed according to special Statutes which go beyond Deemed University concept as approved by the State.

In a historic decision on February 12, 2008, the University Grants Commission has declared Category I Deemed to be University status to ICT which has maintained high academic standards (NAAC grade of A++ CGPA 3.77 out of 4).

Now, ICT will remain within the ambit of UGC but will have the freedom to start new courses, off campus centers, skill development courses, research parks and any other new academic programs. ICT will also have the freedom to hire foreign faculty, enroll foreign students, give incentive based emoluments to the faculty, enter into academic collaborations and run open distance learning programmes.

On March 18, 2018 marked a unique milestone in the chequered history of 84 years of the Institute of Chemical Technology (ICT), Mumbai which crossed for the first time the confines the State of Maharashtra and entered the beautiful and benevolent State of Odisha. ICT is indeed fortunate that the launching of the Institute of Chemical Technology, Mumbai IndianOil Odisha Campus (ICTMumbai-IOC), Bhubaneswar.

May 4, 2018 was a monumental day in the history of ICT Mumbai since its second campus outside Mumbai was established officially at Shiraswadi near Jalna. A land measuring 203 acre was kingly allotted by Government of Maharashtra.

On 3rd April, 2018, ICT received the most coveted ranking awards instituted by the National Institutional Ranking Framework (NIRF) of MHRD during a function by the hands of Shri Prakash Javadekar, Hon'ble Minister of Human Resource and Development, Government of India. ICT has consistently ranked amongst top twenty Engineering Institutes of India and 14th (2022 ranking) amongst top Universities of India. It is also recognized at rank 7th amongst the Pharmacy Institutes.

ICT is the only institute from Maharashtra to be included in Times Ranking (THE) this year in the group of 500-600, far ahead of others including JNU, Jadhavpur and Anna University, which are granted Institute of Eminence. ICT also finds an honorable mention as an institute of sectorial excellence with a recommendation for special funding, in the report of the Committee.

For the first time in international ranking of universities, ICT was invited to participate. The larger the size better is the chance of inclusion. In the BRICS QS universities ranking 2018, ICT has been ranked at 118. Whereas in 2019, ICT is 115 among all BRICS.

ICT: Culture, Creativity and Connectivity

- Three campuses from 2018-19
- 3 Padma Vibhushan, 8 Padma Bhushan, 8 Padma Shri awardees; 2 Fellows of Royal Society (among 5 engineers from India); Several Fellowships- FNA, FNASc, FNAE, FRSC, FTWAS, MUSAE.
- Over 500 first generation entrepreneurs, some owners of Fortune 500 Companies;
- Main Campus at Mumbai: 11 departments and 6 centres of excellence. 9 UG, 18 PG, 29 Ph D, 1 PG Diploma in Chemical Technology Management, 1 Certificate Course in Chemical Safety and Risk Management
- No. 1 in India, 4 globally in publications in Ch E
- 9 UG, 18 PG, 29 Ph D programs, 1 PGDCTM, 1CCCSR
- 640 Ph D Students
- Masters (331 First Year +225 Second Year)
- 1100 UG students
- 360 UG Scholarship
- 140 Ph Ds during 7th Convocation on 23rd Feb. 2018
- 100+ UG Summer Researcher Fellows
- Rs 10K, 100K per student
- 10.27 Ph D per faculty
- Highest citation per faculty
- Annual citations per year more than 10,000
- SCOPUS Awards: 4 faculty in top 10 Chem Engg and 2 in top Chemistry faculty in India: 20th March 2018
- 4 Fellows of INSA, 4 Fellows of TWAS, 4 JC Bose Fellows
- Many of NASI, IASc, INAE,
- 23 Endowment Chairs; 15 UGCFR, 8 INSPIRE, 2 Ramanujam, 2 Ramalingaswami fellows
- 49 Endowment Visiting Fellowships; 11 endowments for library
- India's five Ph Ds in E & T from ICT in 1941-42

- Over 400 international publications per year from a faculty of nearly 100.
- 406 Patents filed in last 10 years
- Over 100 Projects including multinationals new Publications/faculty highest
- Highest Publications/ faculty in India.
- Two Ch E alumni FRS, London
- 1 Company under section 8 of Companies Act
- Donations under CSR, 80G, 35(I) (II) 3 C, 3E
- Many technologies transferred to industry.

ICT Mumbai IndianOil Odisha Campus Bhubaneswar and ICT Marathwada Campus Jalna

Because of the Category I and Deemed to be status, it was possible for ICT to go out of Maharashtra. In view of massive investment in energy, petrochemicals, chemicals, polymers, textiles, minerals, materials, biotechnology and pharmaceutical industries in Odisha, ICT was requested to open a campus in Bhubaneswar. Indian Oil Corporation Ltd took a historic decision to support fully a campus of ICT in Bhubaneswar. It was officially launched at the hands of Hon'ble Shri Ram Nath Kovind, the President of India on 18th March 2018. The following programmes are planned.

1. Integrated M. Tech. after 12th Standard (HSSC) of 5 years duration consisting of 15 trimesters with alternate term in industry, with major in Chemical Engineering and minor in 6 different disciplines. To ensure improved quality and industry relevance in curricula development for integrated M. Tech. (6 trimesters in industry and 9 in institute) in the field of Chemical Engineering as major branch with minor in Petrochemicals, Textiles, Polymers and Materials, Foods and Pharmaceuticals, and Energy Engineering. The last two trimesters will be for promotion of experimental and design project to promote entrepreneurship and start-up companies.
2. Executive M. Tech. for industrial personnel, in collaboration with IIT, KGP
3. Ph. D. programmes in various disciplines including basic sciences
4. Centre of Excellence in Research and Innovation.

All these programmes are new and being introduced in India for the first time. During the industrial internship the student will receive stipend from industry making the education affordable to one and all. The campus will be equipped modern equipment for carrying out high class research and innovation at Centres of Excellence to develop technology and to support Research & Development in industry and Skill Development in Chemical Engineering, Petrochemicals, Textiles, Polymers, Pharmaceuticals, Energy, etc.

ICT will be completing 90 years of its glorious existence on October 1st 2023 and it has been planned to start a **“Granite Foundation”** (90 years) on the occasion with the creation of endowment of Rs. 100 crores. Thus, an appeal has been made as below to individuals, Alumni and Corporates to donate generously. The plan to utilize these funds for the benefit of your Alma-matter are as below.

DETAILS OF INSTITUTE

1. Name of Entity through CSR to be spent :

Institute of Chemical Technology.

2. Statutory documents of the entity:

Institute of Chemical Technology is registered as a trust under Charity Commission having 12AA Certificate and statutory documents (Society Registration Certificate, PAN attached as Annexure-I)

3. Tax Benefits available :-

ICT derive 100% IT tax benefit under section 80G of Income Tax Act 1961. Copy of 80G is attached.

4. Proposed Granite Foundation/ CSR Activity(s)/under the banner.

Laboratories are valuable assets, of which institutions generally have a finite resource. It is a well known fact that, labs go out of date primarily due to equipment configurations and layouts that no longer meet the evolving protocols of the laboratory functions and internally accepted scientific norms. Institute has kept modifying the laboratories as per requirement of new set of equipment, newly developed security measures, change in the safety norms, etc. Up-gradation of laboratories are all-time ongoing process. Hence, with the current CSR and Granite Foundation activity we are proposing laboratory renovation to create a facility which is capable of conducting basic research as well as innovative technology development and provide solutions to the current industrial problems in the field of Chemical biological and energy technologies involving, manufacturing and safe disposal/ reuse of the waste. Some of the laboratories in old building cannot just be renovated but requires a construction of completely new infrastructure. We are currently involved in such a construction having more than 50 modern labs. Already, more than Rs. 40 Crores have been spent in its foundation and basement construction with the association of DAE. More than Rs. 70 Crores still are needed to complete this building. The facility will be used to train students from all Institutes and industry from across the country in this proposed new facility.

5. Proposed statement of the CSR/Granite Foundation activity is as below:

a) Benefits to the society at large :

The Institute has a glorious history of innovations in all branches of Chemical Processing Technology and Synthesis/ Manufacturing. We are training our students to be the messenger of this great tradition. We are promoting our students to apply, reconstruct, and redefine the basic principles in chemical processing so that it can be categorized as the cutting edge technologies. Hence, the practical laboratories are equipped with fundamental processing setups as well as modern sophisticated analytical/Characterising instruments/equipment/machineries. In order to accommodate the instruments we need to think about strategic and efficient utilisation of the available space. Presently, maximum number of laboratories are ceaselessly used by UG, PG students for their practical courses as well as for their research projects. They are being encouraged to do this with an interdisciplinary approach. These laboratories have also been used to train students, involving interdepartmental project.

Apart from the curricular aspects behind the utilisation of the lab space, we are frequently organising training sessions for small scale entrepreneurs and artisans to improve their skills and to instil some new processing technologies which can help to have value addition in their products with a training in science behind these processing techniques.

Due to the space constrain here and training sessions sometimes suffer due to the lack of facilities or required infrastructure. With the proposed CSR/Granite Foundation we can have more space to accommodate maximum number of participants who will get hands on experience with new machineries/technologies and improve their skills. In order meet all these requirement along with infrastructural needs, laboratory refurbishment has to take place with higher priority with a plan that will allow reconfiguration and future renovations without shutting down the exiting facility. This needs additional Rs. 150 crores as per the recent estimates.

We are contemplating the renovation not only to accommodate the requirement/needs of our direct stakeholders but also for the upliftment of a societal segments related small scale industries. The proposed CSR/ Foundation will help us to develop and promote already existing and new skills as a means of livelihood for young Indians especially from underprivileged segments of society.

b) Benefits to the individual, corporate or the company:

Since last 90 years, ICT is providing solutions to the industrial problem at all the levels of complexities. The involvement of industries has played a vital role in the development of ICT whether it is in terms of curriculum development, infrastructural or technology innovation. We are also very well acquainted with industries not only in the terms of providing technical solutions to the problems but also we organise training sessions, certificate courses, short term workshops for industry workers which helps them to hone their skills and get to know upcoming technologies in their respective fields. To promote these activities further we need a makeover and get in line with present modern facilities and infrastructure on par with that available in the industries. This will help us to provide solutions related to current technologies as well as to innovate new efficient and sustainable technologies that's is going to be the need of tomorrows industries.

Hence the proposed CSR/ Foundation activity has been framed taking into consideration the requirements of industries in the form of solutions to their exiting problem and their projected future growth and skilled workforce with sound technological background and thrust for innovations and environment.

6. Monitoring/ status undated post the CSR fund is disbursed:

There will be regular monitoring and reporting of the progress for implementation of all the projects initiated under the foundations. Also, there will be mechanism of reporting of progress of each such activity and the resources spent thereon. Institute shall submit the Audit reports and or satisfy queries raised by you or the organization after the completion of each financial year to you as and when requested within 2 weeks of request.

7. Any other relevant/useful information about the indeed activities:

Your assistance will go a long way in the interest of India and society at large.

SEAL:

Professor Aniruddha Pandit
Vice Chancellor, Chairperson

DATE: November 9, 2022

