



# INSTITUTE OF CHEMICAL TECHNOLOGY MUMBAI



DEEMED TO BE UNIVERSITY UNDER SECTION-3 OF UGC ACT-(1956)  
FIRST ELITE STATUS AND CENTRE OF EXCELLENCE—GOVT. OF MAHARASHTRA  
TEQIP III FUNDED

THE CHANCELLOR AND THE VICE-CHANCELLOR

ON BEHALF OF  
THE BOARD OF MANAGEMENT

CORDIALLY REQUEST THE PLEASURE OF YOUR COMPANY FOR  
THE INAUGURATION OF NOVEL PROGRAMMES OF



INSTITUTE OF CHEMICAL TECHNOLOGY MUMBAI  
INDIANOIL ODISHA CAMPUS BHUBANESWAR



AND ALSO INAUGURATION OF



CENTRE OF EXCELLENCE IN RESEARCH AND INNOVATION

FOR WHICH



INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

WILL JOIN HANDS  
ON  
SUNDAY, 18<sup>th</sup> MARCH 2018 AT 3.30 P.M.

\*\*\*

HON'BLE PRESIDENT OF INDIA  
SHRI RAM NATH KOVIND  
WILL BE THE CHIEF GUEST

AND

HON'BLE GOVERNOR, ODISHA  
DR S.C. JAMIR

HON'BLE UNION MINISTER FOR  
PETROLEUM & NATURAL GAS, SKILL DEVELOPMENT AND ENTREPRENEURSHIP  
SHRI DHARMENDRA PRADHAN

AND

HON'BLE MINISTER OF STATE FOR  
HUMAN RESOURCE DEVELOPMENT (HIGHER EDUCATION)  
DR SATYA PAL SINGH

WILL BE THE GUESTS OF HONOUR

VENUE : IIT BHUBANESWAR ARGUL CAMPUS.



1933 - 2012



# ICT SUPERSTARS



**Padma Bhushan (LATE)  
Professor K.  
Venkatraman,**  
First Indian Head and  
then Director, UDCT  
(1938-1957)



**Padmashri (LATE)  
Dr. G. P. Kane,**  
Head and Professor of  
Chemical Engineering  
(1943-1954)



**Professor (LATE) J.G.  
Kane,**  
R T Mody Professor of  
Chemical Technology  
& Director (1969-1971)



**Padma Bhushan (LATE)  
Professor B. D. Tilak,**  
Former Professor of Dyestuff  
Technology,  
UDCT: Director, NCL,  
Pune (1966-1978)



**Dr. K. H. Gharda,**  
Chairman and Managing  
Director,  
Gharda Chemicals Ltd.



**Padmashri Dr. A. V.  
Ramarao,**  
Former Director, IICT,  
Hyderabad and  
Founder Chairman,  
AVRALAB, Hyderabad



**Padma Bhushan Dr. K.  
Anji Reddy,**  
Founder Chairman,  
Dr. Reddy's Laboratory,  
Hyderabad



**Padma Vibhushan  
Professor M.M. Sharma,  
FRS**  
Professor of Chemical  
Engineering (1964-1997),  
Head (1964-1989), Director,  
UDCT (1989-1997)



**Padma Bhushan Dr. R.A.  
Mashelkar, FRS**  
Director, NCL Pune  
(1989-1995),  
Director General, CSIR  
(1995-2006),  
First Chancellor, ICT



**Shri Narotam S. Sekh-  
saria,**  
Chairman,  
Gujarat Ambuja Cement Ltd.



**Professor J. B. Joshi,**  
Director, UDCT/UICT  
(1999-2009)



**Shri Mukesh D. Ambani,**  
Chairman and Managing  
Director,  
Reliance Industries Ltd.

During the 80th Foundation Year of the ICT, the achievers who made truly outstanding contributions to the growth and glitter of the institute were honoured as The ICT Superstars.

November 24, 2012

**Professor G. D. Yadav,**  
Vice Chancellor and R. T. Mody Distinguished Professor  
J. C. Bose National Fellow (Govt. of India)

**Dr. S. C. JAMIR**  
Governor, Odisha



**RAJBHAVAN**  
**BHUBANESWAR- 751008**

### MESSAGE



I am glad to know that the Institute of Chemical Technology, (ICT) Mumbai is setting up its Odisha Campus with total support of Indian Oil Corporation (IOCL) on March 18, 2018 at Bhubaneswar.

Odisha is proud that this prestigious Institute which is a Deemed University will be having a campus in the state. This is a welcome addition to the national and international level institutions already in the state and it will consolidate Odisha's growing reputation as a higher education hub and as a favoured destination for investment. The Institute of Chemical Technology Mumbai Indian Oil Odisha Campus at Bhubaneswar is being set up at a time when Petroleum, Chemical and Petrochemical Investment Region (PCPIR) is coming up in a big way in Odisha. The state is expected to be benefited a lot from IOCL and ICT cooperation considering ICT's excellent record in academic, research, training and innovation in Chemical Engineering and Technology. I am sure the Institute's Odisha Campus will be recognised for its quality and high standard. I wish the endeavour and ICT's Odisha Campus all success.

(S.C. Jamir)

**NAVEEN PATNAIK**  
**CHIEF MINISTER, ODISHA**



**STATE SECRETARIAT**  
**BHUBANESWAR**

## MESSAGE



I welcome and complement the Institute of Chemical Technology, Mumbai for embarking upon several new programmes such as Integrated M Tech with 15 trimesters including 2 years industrial internship, Executive M Tech and Ph D in Chemical Engineering and Technology, Biotechnology, Materials and Energy Engineering and establishment of a Centre of Excellence in Research and Innovation at Bhubaneswar. Odisha has enormous scope for investment in petrochemicals, polymers, textiles, pharmaceuticals, materials and minerals, energy etc. Odisha needs highly skilled, trained and talented personnel in the coming years to drive its economic growth. By setting up this new Campus, the Institute of Chemical Engineering will render a yeoman service to the people of Odisha and the nation at large.

My Government is committed to nurture and provide a congenial atmosphere for the growth of ICT Mumbai Campus at Bhubaneswar and will provide all necessary assistance to fulfill its ambitious plans.

I once again congratulate the entire ICT team for this noble venture and wish the inaugural function a grand success.

(Naveen Patnaik)

प्रकाश जावडेकर  
*Prakash Javadekar*



मंत्री  
मानव संसाधन विकास  
भारत सरकार

**MINISTER  
HUMAN RESOURCE DEVELOPMENT  
GOVERNMENT OF INDIA**

## MESSAGE



I have been constantly stressing on the importance of quality higher education, path breaking research and innovation not only on par with the best in the world but which results in technology development for generation of wealth and welfare of all segments of Indian society. We have to solve our own problems in the domains of energy, environment, affordable healthcare, food for all and increasing the agrarian income by two-fold in consonance with the clarion call of our Hon'ble Prime Minister Shri Narendra Modi.

The Institute of Chemical Technology, Mumbai, which I have known over the years as UDCT, is distinct in its achievements and brand value. I am delighted that Indian Oil has come forward to support ICT to establish a campus in Bhubaneswar, thereby ensuring availability of highly competent manpower, research and innovation for the growth of economy in petrochemicals, polymers, textiles, pharmaceuticals, foods and the like. I am further happy that Indian Institute of Technology, Kharagpur will assist ICT during its formative years and also join hands in the Centre of Excellence in Research and Innovation. I am positive that Odisha will welcome ICT with all its force on this auspicious day of Gudhi Padwa in the august presence of Hon'ble President Shri Ram Nath Kovind Ji and my cabinet colleagues Hon'ble Shri Dharmendra Pradhan and Dr. Satya Pal Singh.

I will miss this grand event due to pre-commitment. I wish the launch a tremendous success.

(Prakash Javadekar)

**DEVENDRA FADNAVIS**  
Chief Minister  
Maharashtra



**Mantralaya**  
**Mumbai - 400032**

16<sup>th</sup> March 2018

**MESSAGE**



It gives me immense pleasure to know that Institute of Chemical Technology, Mumbai which is a unique state funded Deemed to be University is spreading its wings beyond Maharashtra through its off Campus Centre at Bhubaneswar.

I am sure that the Institute with its proven caliber shall succeed in its endeavor and also shall bridge the gap between the scientific world of Eastern and Western India, especially between that of Maharashtra and Odisha.

Interaction of the Institute with other internationally renowned counterparts of Eastern India will go a long way in knowledge sharing to help in creating quality manpower and realizing fruitful research which shall of immense importance to compete globally.

I also appreciate association of Indian Oil Corporation and support of Indian Institute of Technology, Kharagpur in this noble cause of establishing first off-campus Centre of Institute of Chemical Technology, Mumbai at Bhubaneswar.

I wish all success to the occasion.

(Devendra Fadnavis)

**VINOD TAWDE**  
**Minister**  
**School Education, Sports And**  
**Youth Welfare, Higher And Technical**  
**Education, Marathi Bhasha, Cultural Affairs,**  
**Minorities Development And Wakf**  
Government of Maharashtra, Mantralaya,  
Mumbai 400032  
[www.maharashtra.gov.in](http://www.maharashtra.gov.in)



## MESSAGE



The expansion of educational horizons and grooming of students with the best possible pedagogy, is the way forward for our Nation. We, as the nation, are the youngest demographic in the world and to harness this immense potential, we need to equip our students. In doing so, geographical boundaries should never pose as an hurdle and quality education should be accessible for all.

I was pleased to learn about the inauguration of the off-site campus for Mumbai's Institute of Chemical Technology at Bhubaneswar, Odisha.

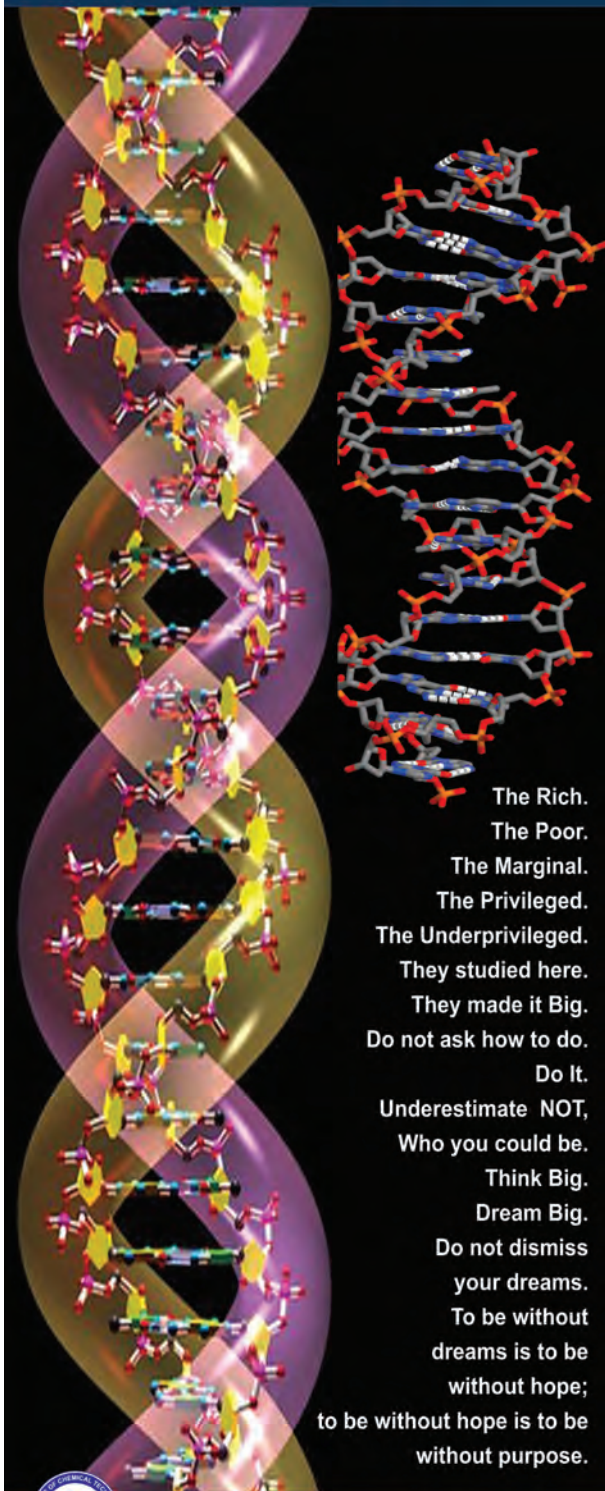
I extend my best for this and all future endeavours.

Thank you.

Yours,

(Vinod Tawde)

# REACH THE STARS



The Rich.  
The Poor.  
The Marginal.  
The Privileged.  
The Underprivileged.  
They studied here.  
They made it Big.  
Do not ask how to do.  
Do It.  
Underestimate NOT,  
Who you could be.  
Think Big.  
Dream Big.  
Do not dismiss  
your dreams.  
To be without  
dreams is to be  
without hope;  
to be without hope is to be  
without purpose.



आ नो भद्राः क्रतवो यन्तु विश्वतः  
Let noble thoughts (new knowledge) come to us from all directions.  
दशदिशान्तु आमन्त्र्य (नव्या ज्ञानाचे) सुखिचारं प्राप्तं भवेत्.



## VISION

We shall perennially strive to be a vibrant institute with continuously evolving curricula to brighten the future of the chemical, biological, materials and energy industries of the nation, and rank amongst the very best in the world through active participation and scholarship of our faculty, students and alumni. We shall be creators of sprouting knowledge and design cutting-edge technologies that will have the greatest impact on society and benefit mankind at large.

## MISSION

We shall generate and sustain an atmosphere conducive to germinating new knowledge at every available opportunity. The education we shall impart will enable our students to devise new solutions to meet the needs of all segments of society with regard to material and energy, while protecting the environment and conserving the natural resources. Our endeavours, while extending well beyond the confines of the classroom, will aim to enhance public welfare and our attempts to disseminate knowledge will spread to a greater multi- and cross-disciplinary platform to conduct research, discovery, technology development, service to industry and entrepreneurship, in consonance with India's aspirations to be a welfare state. We will team scientists and engineers with professionals in other disciplines to arrive at better solutions. We will provide all our students with a strong foundation to encourage them to be our ambassadors in the professional activities that they choose to undertake in service of society at national and international levels. Through our vision, we will serve the profession and society and strive to reach the summit as a team, and ultimately serve as role models to the younger generation.





## Historical Moment on Gudhi Padwa Day

ICT Mumbai campus

Today, the March 18, 2018 marks a unique milestone in the chequered history of 84 years of the Institute of Chemical Technology (ICT), Mumbai which has crossed for the first time the confines of the State of Maharashtra and come to the beautiful and benevolent State of Odisha. ICT is indeed fortunate that the launching of the Institute of Chemical Technology, Mumbai Indian Oil Odisha Campus (ICTMumbai-IOC), Bhubaneswar is done at the hands of Hon'ble Shri Ram Nath Kovind, the President of India in the august presence of Hon'ble Dr. S.C. Jamir, Governor of Odisha; Hon'ble Shri Dharmendra Pradhan, Union Minister for Petroleum and Natural Gas, Skill Development and Entrepreneurship, Dr. Satya Pal Singh, Union Minister of State for Human Resource Development (Higher Education) and a galaxy of bureaucrats, distinguished academics and citizens, stalwarts from industry and well-wishers from across the country. It is a fortuitous coincidence that the ceremony is being held on the premises of the Indian Institute of Technology, Bhubaneswar immediately after its 6<sup>th</sup> Annual Convocation. One Brand welcoming another Brand; such occasions are rare and distinct! March 18 is a special day in Maharashtra. It is Gudhi Padwa, Chaitra Shukla Pratipada, beginning of the New Year. Thus, ICT is having a new Foundation Day of ICTMumbai-IOC.

ICT, Mumbai : Bhubaneswar Campus Inauguration | 7



Hon'ble Minister emphasized the need to replicate the brand ICT in Eastern India and advised ICT to explore possibilities and potential for the benefit of the nation. He specifically mentioned that ICT should produce tomorrow's MukeshAmbanis and Mashelkars and the likes in the interest of India at large that has happened today. Thank you Hon'ble Minister Sir for your encouragement.

To quote Rig Veda:

आ नो भद्राः क्रतवो यन्तु विश्वतः

*Aa No Bhadra Krutuwo Yantu Viswata*

The idea of having ICT campus in Bhubaneswar was conceived in 2016 and a few meetings were held with Odisha Govt. officials for allocation of land and funds since ICT is a State Govt. owned institute but being a deemed university can go beyond the boundaries of the State. Indeed the Govt. of Maharashtra has asked ICT open up Marathwada campus with allocation of land of 203 acres near Jalna with full support.



**Dharmendra Pradhan**

*Minister for Petroleum & Natural Gas, Skill Development & Entrepreneurship,  
Government of India*

March 18th 2018 is a great day for the people of Odisha as Shri Ram Nath Kovind, Hon'ble President of India, launches two important educational and skill development initiatives in the State.

Hon'ble Prime Minister Narendra Modi's comprehensive Energy Vision is our inspiration to create a new and vibrant India. We need skill, scale and scope to make the most of India's young demographic dividend.

With the massive investment of about Rs. 1.2 lakh crore in the oil & gas sector and upcoming associated industries, such as Petrochemicals Park and Plastics Park, in Odisha, it is important that the requisite institutional infrastructure and talent are created in the State to educate and skill the local youth so that they can obtain gainful employment in the energy sector.

The inauguration of world-class Post-Graduate programmes at the Institute of Chemical Technology Mumbai - IndianOil (ICT-IOC) Campus in Bhubaneswar signifies a new dawn of empowerment for the youth of Odisha. ICT Mumbai is one of the leading research institutions worldwide, and has produced many outstanding alumni like Dr. RA Mashelkar, Prof. MM Sharma and Dr. Homi Sethna, who have made significant contributions in Chemical Engineering and allied fields.

I am happy that ICT Mumbai, and IndianOil Corporation have joined hands to set up this world-class Centre of Excellence in Chemical Engineering & Technology at Bhubaneswar to catalyse the structured growth of industries in Odisha in diverse sectors such as petrochemicals, chemicals, polymers, textiles and fibres. Other sectors such as herbal, pharmaceuticals,

pesticides, dyestuff & fine chemicals, perfumers & flavours, rubber and chemicals will also benefit from the expertise of the Institute. With an investment of Rs. 500 crore, I am sure that ICT-IOC will shape up into a world-class institute with latest facilities and equipment.

The ground-breaking ceremony of the permanent campus of IndianOil's Skill Development Institute (SDI) at Jatni is also taking place on the same day. Establishment of SDIs in different parts of the country is a unique initiative taken up by the leading oil & gas sector PSUs, and I compliment IndianOil for taking the lead in setting up the first SDI at Bhubaneswar. The pilot campus of SDI, Bhubaneswar, was inaugurated on 9th May 2016. Since then, the Institute has been skilling the youth in five trade courses with a capacity of more than 150 students per batch.

The permanent campus of SDI Bhubaneswar will be equipped to train about 3,000 to 4,000 youth every year in 16 regular trades pertaining to the hydrocarbons sector and local industry. Spread over 60 acres, the institute is being set up with an initial investment of Rs. 500 crore. It will train about 50,000 youths from Odisha and other States, imparting global employability skill sets in the next 10 years.

Courses in advanced and disruptive technology areas are also planned through collaboration with academic institutions like IIT-Kharagpur and industry partners. They include Artificial Intelligence, Machine Learning, 3D-printing, Advanced Robotics, Augmented Reality, Virtual Reality, Renewables and Energy Storage.

I welcome Hon'ble President of India to Odisha on this happy occasion and thank him for gracing the launch of these two initiatives.



MOU with IOC was signed on 16<sup>th</sup> Nov 2017

## 85<sup>th</sup> Foundation Day Celebration

On the occasion of the celebration of ICT's Foundation Day, October 1, which was held on October 7, 2017, Hon'ble Shri Dharmendra Pradhan, Union Minister for Petroleum & Natural Gas, Skill Development and Entrepreneurship was the Chief Guest, who had the opportunity to visit some of the laboratories and research centres and to interact with faculty, students and alumni, and listen to the impeccable accomplishments. He greatly appreciated the importance of ICT in creating national wealth, intellectual property, development of high quality human resource, generation of new knowledge, technology transfer, and skill development in areas related to ICT's core strength, which have been grossly overlooked. He was highly impressed and during his address Hon'ble Minister emphasized the need to replicate the brand ICT in Eastern India and advised ICT to explore possibilities and potential for the benefit of the nation. He specifically mentioned that ICT should produce tomorrow's Mukesh Ambanis and Mashelkars and the likes in the interest of India at large.

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**Prof. G D Yadav**  
*Vice-Chancellor & R.T. Mody Distinguished Professor  
 J. C. Bose National Fellow  
 Institute of Chemical Technology, Mumbai*

The industrial growth of Eastern India needs high-quality manpower for petroleum, petrochemicals, polymer, pharmaceuticals, materials, food and allied industries.

We are immensely pleased to launch the Institute of Chemical Technology Mumbai-IndianOil Odisha Campus in the august presence of the Hon'ble President of India. The Campus will offer innovative programmes leading to integrated M Tech with alternate trimester in industry, Executive M. Tech and Ph. D. degrees. I am happy that IIT Kharagpur will join us in our Centre of Excellence in Research and Innovation.

ICT Mumbai's past record of 84 years, producing scores of world-renowned academics, 500+ celebrated entrepreneurs and 19 Padma awardees is a testimony of its standing among branded institutes. The overwhelming support of the Board of IOCL and all officials will make this new initiative a grand success and change the path of technical education. We dedicate this new campus to the nation with great planning, fervour and commitment.

This is a dream cum reality for ICT which would not have been possible but for the visionary leadership of Hon'ble Prime Minister Shri Narendra Modi and the great support and encouragement of Hon'ble Shri Dharmendra Pradhan, Union Minister for Petroleum and Natural Gas, Skill Development and Entrepreneurship, who saw the uniqueness of ICT and firmly believed that it should spread its wings to Eastern India for the benefit for the nation at large. It will catapult into industrial growth and generation of entrepreneurs.



ICT has produced 6 CSIR directors and 1 Director General, and 1 Chairman, Atomic Energy Commission, and several bureaucrats and freedom fighters including Union Minister for Commerce Shri Manubhai Shah, a freedom fighter, in Pt Nehru's cabinet

## Petrochemicals Investors Conclave

Petrochemicals Investors Conclave was organized by IOC in Bhubaneswar during 15-16 November for which ICT Mumbai was chosen as the academic partner. The executives of all oil PSUs and Govt. secretaries from Oil and Natural Gas, Chemicals and Fertilizers and Skill Developments were present along with Hon'ble Shri Dharmendra Pradhan and Odisha State ministers. On 16<sup>th</sup> November, 2017, the Vice Chancellor of ICT Mumbai, Professor G.D. Yadav, made a presentation on future of petrochemical,



**Devendra Fadnavis**  
Chief Minister,  
Maharashtra

After acquiring knowledge, if it's not put to the use of society, the knowledge is of no use. We are one of the youngest nations or youthful nations in the entire world. And we will remain so; for the next 20 to 40 years. We will be able to provide the human resource to the entire world. And if the entire world economy is enriched and fueled by the Indian minds, brains, hands, our dream to be one of the developed countries in the world can be accomplished.

We have a lot of opportunities and challenges as well. On one hand, the agriculture sector needs a lot of innovation, it needs a lot of capital, a lot of efforts and initiatives. On the other hand, we need a lot of technologies to be infused in our cities, so that the lives of urban people can be scaled up.

Ultimately, if you really want to work on the challenges, the disruptive technologies is a solution where one single technology changes the life of people. This institute can produce so many alumni of which we can take pride of.

I would also like to request the Honourable Chancellor and Vice Chancellor that they should also look at creating such institutions elsewhere in Maharashtra.

*-(Excerpt from the 5<sup>th</sup> Convocation speech, March 2016)*



ICT has been closely working with industry ever since and government in the interest of the nation and currently have active MOUs with many national and international renowned universities in USA, Canada, UK, Germany, France, Australia, Finland, Spain, and foreign such as Mitsubishi, Huntsman, Unilever, Biorad, Coca Cola, Pepsico, Reliance, etc.

polymer, textiles and allied industries in India in the context of global scenario and the need for creation centre of excellence and human resource development in Odisha. He stressed upon the need of having brand ICT in Odisha in view of acute shortage of trained manpower for energy and petrochemical sector. An umbrella MOU was signed between IOC and ICT Mumbai for establishing ICT Mumbai campus in Odisha and for supporting research and innovation in all sectors related to refinery, petrochemicals and post-processing.

## The ICT Brand

Institute of Chemical Technology, Mumbai (ICT) is a World Class Deemed University having an elite status and Centre of Excellence on par with IITs/IISc/IISERs which was granted by the State Assembly on October 20, 2012; a unique distinction in history of India. ICT's track record of 84 years is phenomenal. ICT is ranked among the best in

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**Prof. Jean Marie Lehn**  
Noble Laureate,  
Professor at  
Collège de France  
in Paris

Chemistry plays a central role both in natural sciences and in knowledge. Without chemistry, many achievements we consider as very basic would not be recognized. It contributes to meet your needs and food and medication and clothing and shelter in energy and raw material. It supplies material for Physics. It makes models and substrates for biology and pharmacology. It is a science of matter and energy transformation.

Science education in our schools and colleges must be a major priority to train the researchers and discoverers tomorrow, to develop scientific spirit and attitude, it is my strong opinion that the scientist have first of all general responsibility to prove. Many of you must have heard about Leonardo da Vinci. When he wrote, where nature finishes to produce own species, man begins using natural things. By this, I mean elements of the universe. Development of science is an irreversible process. We must walk the way from the conquest of knowledge to the control of our own destiny.

- (Excerpt from speech delivered while accepting D.Sc. (Hon. Causa))

India having the highest NAAC rank of A++ with CGPA of 3.77. The National Institutional Ranking Framework (NIRF) of MHRD placed ICT at number 2 in 2016 behind IISc, Bangalore among all universities. ICT was the only state funded institute being recognized among all top 25 universities. The Web of Science, an international agency, showed that based on the normalized citation index, ICT was ranked number one, ahead of IISc and IITs, and central universities in September 2016. In QS BRICS ranking, ICT secured 118th rank among all with 100/100 marks for research and innovation, along with IISc Bangalore and IIT-Delhi. Once again in the Scopus Survey January 2018, ICT is found to be among top 3 in the country.

## Genesis, Growth and Glamour

Having been established as the University Department of Chemical Technology (popularly called UDCT during yesteryears) by the University of Bombay (now Mumbai), on October 1, 1933 by the desire of government, industry and philanthropists, the Institute of Chemical Technology (ICT) Mumbai has made the India proud by having on its roll distinguished alumni, be they industrialists, bureaucrats, academicians, social workers, freedom fighters, who have



**Prof. Damodar Acharya**  
*Former Director IIT Kharagpur,  
Former Chairman AICTE and  
Founding VC BPUT*

Eighty four years old Institute of Chemical Technology, Mumbai is a world class research University with possibly the best industry connectivity, This University has produced some of the outstanding academicians, over 500 first generation entrepreneurs and has made significant contributions to Chemical Engineering and allied fields. The Institute is the driver of Chemical, Petrochemical and Pharmaceutical Industries in the Western India. best Eastern India has immense potential to become a hub of Chemical, Petrochemical and Pharmaceutical Industries. Lack of quality manpower and a driver Institute like ICT are important hurdles to the realisation of the full potential. Paradip, Dhamra and proposed PCPIR are expected to make Odisha as a Chemical, Petrochemical, Fertilizer, Plastic, Vegetable Oil, and Pharmaceutical Hub of the Country. Coal and coal based chemicals and fertilizers have immense potentiality in the State. Indian Oil as anchor industry of PCPIR at Paradip is naturally interested in having an Institute of ICT Mumbai Capability and Stature to drive its own growth as well as the industries in the proposed PCPIR.

Government of Odisha has also shown keen interest to have the presence of this iconic Institution. IIT Kharagpur is willing to have academic and research collaboration. ICT Mumbai-IOC Campus is coming up in Bhubaneswar and IIT Kharagpur Bhubaneswar Campus will be its Incubator, Financial and Industry support will provide Industry support .Government of Odisha is considering giving land for its permanent Campus. Bhubaneswar is creating history in the field of education and research with the opening of this Campus with full cooperation of a leading Industry, two world class Institutions and the expected support of the State, Producing industry savvy, research focussed quality manpower and providing technical support to the industries in the zone will be its goal. The success of this unique experiment will pave the way for a different model of industry oriented research and problem solving centred technical education and research. The Institute as a driver of growth in a particular sector of Industries.



**Dr R.A. Mashelkar**  
(Chancellor,  
Institute of  
Chemical  
Technology)

Today is a momentous day for ICT. As an alumnus, I feel even prouder to see my alma mater spreading its wings beyond Mumbai ( and hopefully beyond India in time to come) for the first time since it's birth in 1933.

ICT has its own brand having produced 19 Padma awardees and some of the greatest global achievers in academia and industry.

I salute the grand vision of our Hon'ble Minister Shri Pradhan. The unique support by Indian Oil Corporation to make this happen is unparalleled. Partnering of IIT Kharagpur in research and innovation marks yet another landmark.

We promise to offer world class innovative programmes. We will also create a unique innovation hub for inclusive growth of higher education and industry in Eastern India. As Chancellor of ICT, I feel, this is the greatest achievement and the proudest moment in our history.



come from all strata of society- the rich, the poor, the marginal, the socially disadvantaged and the underprivileged, from across the country. To its credit, ICT has so far produced 19 Padma awardees: 3 Padma Vibhushan, 8 Padma Bhushan and 8 Padmashri; a few billionaire industrialists among 500+ first generation entrepreneurs, topmost science and engineering bureaucrats, and brilliant academicians who have served the nation in various policy making committees and won many international honours and prestigious fellowships. Some of them are well known to the masses – Shri Mukesh D. Ambani, CMD, Reliance Industries, Padma Vibhushan Dr R.A. Mashelkar (former DG, CSIR), Padma Vibhushan Prof M.M. Sharma (former Director, UDCT/ICT), Padma Vibhushan Dr Homi Sethna (former Chairman, AEC), Padmashri Dr K.H. Gharda (CMD, Gharda Chemicals), Padma Bhushan Dr. K. Anji Reddy (Founder CMD, Dr Reddy's Laboratory, Hyderabad), Padma Bhushan Dr A.V. Ramarao (former





Director, CSIR-IICT Hyderabad and Chairman, AVRA Lab), Shri Madhukar Parekh (CMD, Pidilite Industries), Shri Narotam Sekhsaria (Founder CMD, Gujarat Ambuja Cement), Shri Chandrakant Gogri (CMD, Aarti Group) among many others. ICT has produced 6 CSIR directors and 1 Director General, and 1 Chairman, Atomic Energy Commission, and several bureaucrats and freedom fighters including Union Minister for Commerce Shri Manubhai Shah, a freedom fighter, in Pt Nehru's cabinet.

The current Chancellor Dr Raghunath A. Mashelkar (Padma Vibhushan, 2014) and Vice Chancellor Professor Ganapati D. Yadav (Padmashri, 2016) are world renowned Chemical Engineering scientists, technologists and academicians having been decorated with



**Sanjiv Singh**  
Chairman, IndianOil

With IndianOil's Paradip Refinery and other mega oil & gas projects fuelling industrial growth in Odisha and other States of Eastern India, it is critical that we create an eco-system for skilling and employment in the oil & gas sector. Paradip offers a conducive business environment for attracting and promoting exclusive investments in petroleum, chemicals, petrochemicals and allied sectors. In this backdrop, IndianOil is privileged to collaborate with the Institute of Chemical Technology, Mumbai, for the launch of the ICT-IndianOil Campus at Bhubaneswar to run three programmes: Integrated M.Tech; Executive M.Tech and Ph.D. focussed on Chemical Engineering & Technology.

IndianOil's Skill Development Institute at Bhubaneswar, another initiative undertaken under the aegis of the Ministry of Petroleum & Natural Gas, is a symbol of our continuing commitment to serve Odisha and its people. SDI, Bhubaneswar, will fulfill a major need for imparting multiple skills and making workforce ready for the industry. The institute, operating successfully from temporary premises since May 2016, will now evolve into a full-fledged mega-model Skill Academy as it moves to its permanent campus at Jatni.

We hope that both these initiatives will go a long way in fulfilling the vision of Hon'ble Prime Minister and Hon'ble Union Minister of Petroleum & Natural Gas for industrial growth and the evolution of a petrochemicals hub in Odisha.



**Ch. Vidyasagar Rao**  
Governor of  
Maharashtra and  
Tamilnadu

ICT was placed at second position among all Indian leading universities in April 2016. Further, it was ranked number 1 among premier universities Indian Institute of Science and all IITs in september 2016. It's immense pride that the Institute enjoys a global standing of number 4 among all chemical engineering programs. ICT was once a Department of University of Mumbai. It was then known as UDCT. It's a classic example of how autonomy could be used to transfer our centres of excellence.

Recognizing the important work of ICT the Government of Maharashtra has taken a decision - to allot 200 acres of land to ICT to build a satellite campus in Marathwada near Aurangabad, Jalna. Govt. of India has launched many ambitious missions. The role of University in these missions is going to be crucial since you have been working on solving problems.

It is necessary that we provide the best of education and skills to the youths to make them stakeholders and serve in nation's progress and development.

*(Excerpt from the speech as Chief Guest for 6th Convocation of ICT)*



numerous fellowships and honours across the globe.

ICT stands No. 1 in India, 4 globally in publications in Chemical Engineering and allied Technologies with 9 UG, 18 PG, 29 Ph D programs, and 1 Post-graduate Diploma in Chemical Technology Management for entrepreneurship development, having 700 Ph. D., 450 Masters and 1100 students. ICT supports 360 UG Scholarship (Rs 25,000 to 1.00 Lakh) and 100+ UG Summer Researcher Fellows. During last 10 years ICT has filed 406 patents of which 155 have been granted; including technology development and transfer to convert agricultural waste to 2G bioethanol with BPCL and HPCL, municipal solid waste to bio-oil and CNG with industrial partners. DBT is a partner in this section 8 company. Several technologies have been transferred to industry in chemicals, petrochemicals, foods, polymers and pharmaceutical sectors, as well as waste management under Swacch Bharat Mission.

# Mass Transformation



## Recognition by Central and State Governments

ICT's standing and contribution to nation building has been recognised since beginning by the Union Govt. from time to time including visits by the First Prime Minister Pt. Jawaharlal Nehru and Chief Minister, Maharashtra Shri Y.B. Chavan (1959), Shri Prithviraj Chavan, MoS PMO and MoS for Science, Technology and Earth Sciences (May 15, 2010) and Chief Minister (March 7, 2012), Shri Srikant Jena, Minister for Chemicals and Fertilisers (May 11, 2011), Shri Pranab Mukherjee, President of India (Dec 27, 2013), Shri Devendra Fadanvis, Chief Minister, Maharashtra (March 2016), Shri Suresh Prabhu, Railway Minister (Oct 2016), Shri Ch. Vidyasagar Rao, Governor Maharashtra (Feb. 2017), and Shri Dharmendra Pradhan, (Oct 2017). All of them have witnessed how a small State funded institute has carved a place for itself among leading institutions of national importance.



**Professor M M Sharma** *FRS*  
Former Director  
UDCT/ICT (1989-97),  
Emeritus Professor  
of Eminence

The University Department of Chemical Technology (UDCT) now the Institute of Chemical Technology (ICT), deemed university, was established as early as 1933 by the uncommon initiatives of the industrialists and philanthropists with very generous financial support via endowments of fairly large magnitudes. The ICT pioneered research from the very beginning, with an outstanding Library, which also now has its own endowments to partially support activities, with heavy emphasis on teaching, scholarly writing, and live connections with industry. Indeed the ICT is considered a role model for very active and rewarding interactions with industry. The ICT has an enviable record of graduating PhD's per faculty member.

It is most gratifying that ICT Mumbai IndianOil Odisha Campus is being inaugurated with the blessings of the President of India. The Indian Oil Corporation merits a special mention for the daunting task, and full financial support, this endeavour has undertaken with very innovative courses. Odisha has a great potential for Chemical Industries based on the Paradip Refinery, Petrochemicals etc. and the mineral wealth.

I wish this most unusual, uncommon, but, exciting innovative endeavour, great success.



The manpower being trained in this institute will cater to chemical, energy, materials and bio-tech industries including sectors of petrochemicals, textile, pharmaceutical, food & food processing industries, etc. for industries in Eastern Region.

## ICT Connectivity with Industry

The role of industry in promoting education and research at ICT has its roots in its foundation. Leading magnates from textile and chemicals industry and philanthropists donated funds to establish professor's positions and laboratories right from beginning and research started from the inception keeping faculty engaged in development of industry. It is matter of pride that the very first position created through endowment is R.T. Mody Distinguished Professor which the current Vice Chancellor occupies. Faculty used to offer free consultation to industry for its growth and many new industries were started by ICT graduates.

ICT has been closely working with industry ever since and government in the interest of the nation and currently have active MOUs with many national and international renowned universities in USA, Canada, UK, Germany, France, Australia, Finland, Spain, and foreign such as Mitsubishi, Huntsman, Unilever, Biorad, Coka Cola, Pepsico, Reliance, etc. Bestowed with numerous awards and accolades, ICT has created a niche for translational research and technology

18 | ICT, Mumbai : Bhubaneswar Campus Inauguration



**Robert H Grubbs**  
*Noble Laureate,  
Victor and  
Elizabeth Atkins  
Professor of  
Chemistry,  
California  
Institute of  
Technology*

Over the past several years, I have the opportunity to learn the progress of Indian chemistry. It appears that India is going through a big transition and growth in the development of chemistry and chemical engineering. As academic scientists, we are entering a new world where the opportunity to be involved in translation of fundamental research and commercial products is not only possible but it's really encouraged. This close interaction between academia and commercial science and technology is very rewarding. For those who are not going to go into academia, very exciting jobs are opening into startups and lots of new enterprises may provide many many job opportunities. The possibilities today allow to work in wide range of fields from basic science to design and synthesise the material for medical devices. It is upto you and your creativity, hard work to be able to push this field of chemistry and chemical engineering to new heights.

*- (Excerpt from speech delivered while accepting D.Sc. (Hon. Causa))*



development and transfer. ICT is not only a Chemical Engineering and Chemical Technology institute, dealing with all sub-sector, but also deals with Biological Sciences and Engineering, Materials and Energy Engineering.

## Why ICT is in Odisha?

India's economy is mainly agriculture based which is in transition towards industry based economy and the ultimate aim of the Indian economy is to become Knowledge Based Economy (KEB). The economy of Odisha is one of the fastest growing economies amongst various States in India. According to current economic survey, Odisha's gross state domestic product (GSDP) is expected



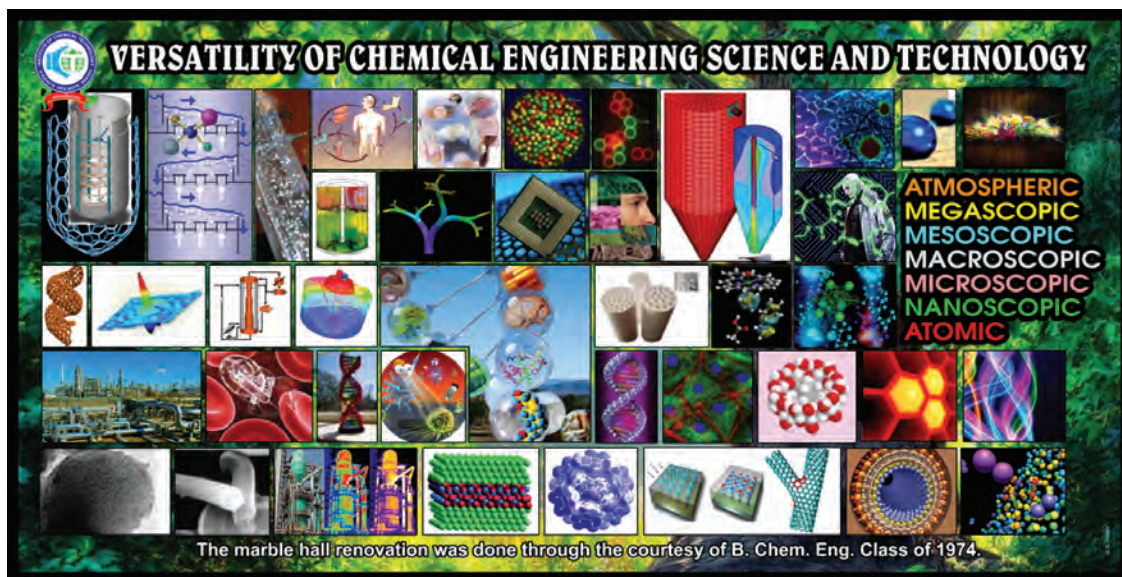
**Professor Ryoji Noyori**  
*Noble Laureate,  
Professor, Nagoya  
University Japan*

Scientific research is a long, endless journey of knowledge, but it is not the destination that is important. Rather, it is more meaningful to have many and diverse encounters along the way. Outstanding research fosters talented people and contributes to society. This is the value of scientific research.

Chemistry is limitless. While young people are full of curiosity, they tend to lose sight of their objectives. Eventually, I developed a keen interest in the handedness in chemistry, in what is known as molecular chirality. Numerous organic compounds have left and right chirality with the same chemical formula, and these are known as enantiomers. Notably, life depends on chirality. Because enantiomers can evince very different biological phenomena, this has profound implications for scientific research and industrial technology related to pharmaceuticals, agrochemicals, fragrances, and flavors. Thus the practical acquisition of pure enantiomers is essential. It was our task to make this difficult process possible.

We cannot walk alone. Our individual knowledge is inextricably bound to the combined knowledge of all humanity. The 20<sup>th</sup> century was an era of international competition, symbolized by war and economic rivalry. In the 21<sup>st</sup> century, however, we will have to cooperate globally for the survival of our species. Whatever we do, we must do our best.

*- (Excerpt from speech delivered while accepting D.Sc. (Hon. Causa) on 23<sup>rd</sup> Feb. 2018)*



to grow at around 8.5% during current fiscal year. Education is the key enabler of economy of any State; in particular, higher technical education along with related research and innovation. In order to develop any State as preferred destination for industrial services, R&D, it is necessary to invest in training high-quality manpower and develop indigenous technology. This shall enable the State to seize the emerging opportunity and ensure a rate of satisfactory growth.

The primary industries in Odisha are manufacturing; mining & quarrying; electricity, gas and water supply & construction. The industrial sector's contribution to the state's GSDP by almost 35%. Most of Odisha's industries are mineral-based. Odisha has 25% of India's iron reserves. It has 10% of India's production capacity in steel. Odisha is the top aluminium producing State in India. Two of the largest aluminium plants in India are located in the state. Odisha is the first State in India to reform its power sector and become surplus power generating state.

Similar to Maharashtra in the past, recent years have witnessed large projects in Odisha like Indian Oil's 11<sup>th</sup> Refinery at Paradip, envisioned as the Energy Gateway to Eastern India, the 15 MMTPA Refinery has been set up at an estimated cost of Rs. 34,555 crore. Other mega-projects include large Coal Gasification Plant at Angul, World's Largest Phosphatic Fertilisers Plant at Paradip, Vegetable Oil Plant at Paradip to name a few. Govt. of India's PSUs, RCF and GAIL are embarking a large scale Fertiliser Plant at Talcher using gasification of coal. Based on Petroleum Refinery at Paradip, Govt. of India has also approved setting

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In order to develop any State as preferred destination for industrial services, R&D, it is necessary to invest in training high-quality manpower and develop indigenous technology. This shall enable the State to seize the emerging opportunity and ensure a rate of satisfactory growth.

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up a Petroleum, Chemical, Petro-chemical Investment Region(PCPIR) for which Govt. of Odisha has earmarked 250 sq. km of land. Indeed all these sectors are linked to ICT's portfolio and strength. Therefore, it was felt by ICT and endorsed by Hon'ble Minister the need of a World Class Centre of Excellence in Chemical Engineering and Technology in Odisha to catalyse structured growth of petro-chemical, chemical, polymer, textiles and fibres, herbal and pharmaceuticals, pesticide, dyestuff and fine chemicals, perfumers and flavours, rubber chemicals industry in Odisha. All of these For SEZ, PCPIR and Innovation hubs in Pharmaceuticals, Govt. of Odisha needs extensive and innovation input from Institute like the ICT, Mumbai.

As a consequence too the MOU between IOC and ICT on 16<sup>th</sup> November 2017, a proposal was submitted to the IOC Board giving the details of plan to promote several activities including setting up of campus at Bhubaneswar.

1. Integrated M. Tech. after 12<sup>th</sup> Standard (HSC) 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. (6 trimesters, 2 years, alternate trimester in classroom) for industrial personnel
3. Ph. D. programmes in various disciplines.
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

## DIRECTORS OF ICT AND THEIR TENURES

- 1. Sir V. N. Chandavarkar**  
*Vice-Chancellor and Founder of UDCT*  
1933 - 1939
- 2. Dr. R.B. Forster**  
Oct 1933 to Oct 1938
- 3. Professor K. Venkatraman**  
Oct 1938 to Aug 1957
- 4. Professor G.M. Nabar**  
Aug 1957 to Jun 1969
- 5. Professor J. G. Kane**  
Jul 1969 to Sep 1971
- 6. Professor E.H. Daruwalla**  
Sep 1971 to Oct 1983
- 7. Professor D. V. Rege**  
Nov 1983 to Oct 16, 1986
- 8. Professor S.P. Potnis**  
Oct 17, 1986 to Aug 31, 1989
- 9. Professor M. M. Sharma**  
Sept 1, 1989 to Apr 30, 1997
- 10. Professor S.B. Chandalia**  
May 1, 1997 to Apr 30, 1998
- 11. Professor T.K. Venkatesan**  
May 1, 1998 to Oct 31, 1999
- 12. Professor J. B. Joshi**  
Nov 1, 1999 to May 28, 2009
- 13. Professor G.D. Yadav**  
Director from May 29, 2009 to Apr 2010, and thereafter as Founding Vice Chancellor till date



DBT-ICT  
Technology:  
2G bioethanol  
demo plant  
at Kashipur,  
Uttarakhand



**Dr Anil Kakodkar**  
*Former Chairman, Atomic Energy Commission, Chairman, Rajiv Gandhi Science & Technology Commission, GoM Chairman, Technology Information, Forecasting & Assessment Council*

industry and Skill Development in Chemical Engineering, Petrochemicals, Textiles, Polymers, Pharmaceuticals, Energy, etc.

IIT Bhubaneswar which was occupying the Extension Centre of IIT Kharagpur temporarily until recently has shifted to its new campus. IIT Kharagpur has thus shown interest in joining hands in the research programmes and the Centre of Excellence in Research and Innovation and to share its premises in Bhubaneswar temporarily. This campus will be inaugurated by Hon'ble President on 18<sup>th</sup> March.

The initial investment for establishing the first phase in temporary campus is around Rs 100 Crore. ICT has applied to the State Govt. for 100 acres of land for setting up full-fledged campus with an approximate investment of Rs 500 Crore for establishing world class institute with latest facilities and equipment. The construction of this new campus will be started as soon as the land is allocated. IOC is committed to assist ICT in this regard. Number of students to be trained in this institute after setting up will be around 2000 students including graduates, M.Tech.s and Ph.Ds. Highly accomplished faculty will be recruited including superannuated scientists and engineers from industry.

The manpower being trained in this institute will cater to chemical, energy, materials and bio-tech industries including sectors of petrochemicals, textile, pharmaceutical, food & food processing industries, etc. for industries in Eastern Region. The first academic session of the maiden programme of the IOC-ICT campus is starting from this academic session.

22 | ICT, Mumbai : Bhubaneswar Campus Inauguration

Compliments on the occasion of Inauguration of the Institute of Chemical Technology, Mumbai - Indian Oil Corporation, Odisha Campus (ICTM-IOC), at Bhubaneswar on 18<sup>th</sup> March.

Institute of Chemical Technology through its high quality research and teaching as well as deep industry engagement has established itself as a top chemical engineering university of high global standing. The institute has been pursuing research on problems of key national importance in areas such as value added chemicals, energy, biotechnology, pharmaceuticals and others. Several industries in these domains have benefitted from research at ICT apart from the contributions made by its students and faculty. DAE research institutions e.g. BARC and IGCAR have been collaborating with ICT for over 15 years on large number of challenging projects.

Indian Oil Corporation, apart from being one of the largest oil PSU of the country, has also been in the forefront of industrial research in the country, particularly in refining segment and has some key technological achievements to its credit.

Coming together of these two leading entities, one in academics and research and the other in industrial research and deployment in a campus at Bhubaneswar which is fast becoming a S&T knowledge hub, will clearly boost technology led growth of IOC and knowledge led growth of the region. My best wishes to this endeavour.



## DISTINGUISHED ALUMNI



**1990**  
**PROFESSOR M.M. SHARMA**  
B.Chem.Eng. 1958, M.Sc. (Tech), Chem. Eng. 1960, Former Director, UDCT, Professor of Eminence, Institute of Chemical Technology



**1991**  
**DR. R.A. MASHEKAR**  
B.Chem.Eng. 1966, PhD (Tech), Chem. Eng. 1969, Former Director, NCL; Former DG, CSIR; Chancellor, Institute of Chemical Technology



**1991**  
**DR. A.V. RAMARAO**  
B.Sc. (Tech), (Pharma), 1960, Founder and Managing Director, Avra Laboratories, Former Director, IICT, Hyderabad



**1991**  
**DR. H.N. SETHNA**  
B.Sc. (Tech), Chem. Eng. 1944, Former Chairman, Atomic Energy Commission



**1992**  
**DR. B.D. TILAK**  
B.Sc. (Tech), 1939, PhD (Tech), Textile Chemistry 1943, Former Director, National Chemical Laboratory



**1992**  
**MR. D.M. TRIVEDI**  
B.Sc. (Tech) Textile Chemistry 1937, Famous Textile Technologist



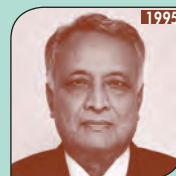
**1993**  
**MR. V.G. RAJADHYAKSHA**  
B.Sc. (Tech) Chem. Eng. 1944, Former Chairman, Hindustan Lever Limited



**1994**  
**MR. I.A. MODI**  
B.Sc. (Tech) Pharma 1949, Managing Director, Cadila Laboratories Ltd.



**1994**  
**DR. K.H. GHARDA**  
B.Sc. (Tech) 1950, M.Sc. (Tech) Chem. Eng. 1950, Chairman & Managing Director, Gharda Industries Ltd.



**1995**  
**MR. C.V. GOGRI**  
B.Chem. Eng. 1969, Chairman, Aarti Industries Ltd.



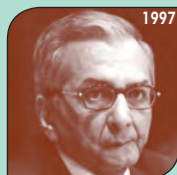
**1995**  
**MR. R.V. GOGRI**  
B.Chem. Eng. 1981, Managing Director, Aarti Industries Ltd.



**1996**  
**MR. N.K. PAREKH**  
B.Sc. (Tech) Dyes 1961, Vice Chairman, Pidiite Industries Ltd.



**1996**  
**MR. M.B. PAREKH**  
B.Chem. Eng. 1968, Managing Director, Pidiite Industries Ltd.



**1997**  
**MR. N.S. SEKHSARIA**  
B.Chem. Eng. 1970, Managing Director, Gujarat Ambuja Cement Ltd.



**1997**  
**MR. B.S. RAJPUROHIT**  
B.Sc. (Tech) Plastics 1960, Chairman & Managing Director, Chemical Process Equipments Ltd.



**1998**  
**MR. P.R. RASTOGI**  
B.Sc. (Tech) 1966, M.Sc. (Tech), Textile Chemistry 1968, Managing Director, Clariant India Ltd.



**1998**  
**MR. U. SHEKHAR**  
B.Chem. Eng. 1976, Chairman, Galaxy Surfactants Ltd.



**1998**  
**MR. SUDHIR PATIL**  
B.Chem. Eng. 1976, Director, Galaxy Surfactants Ltd.



**1999**  
**MR. P.D. KAMAT**  
M.Sc. (Tech) Oils, Fats & Waxes 1971, Director, Fine Organics Ltd.



**1999**  
**MR. J.R. VYAS**  
B.Sc. (Tech) Pharma 1974, Managing Director, Dishman Pharmaceuticals & Chemicals Ltd.



**1999**  
**MR. KISHORE V. MARIWALA**  
B.Chem. Eng. 1957, Director, Hindustan Polyamides and Fibers Ltd.



**2000**  
**MR. J.R. SHAH**  
M.Sc. (Tech) Plastics 1956, Director, Jayvee Organics & Polymers Pvt. Ltd.



**2000**  
**DR. D.S. PATEL**  
M.Sc. Organic Chemistry 1979, Managing Director, Themis Chemicals Ltd.



**2000**  
**MR. R.H. MEHRA**  
B.Sc. (Tech), M.Sc. (Tech) Textile Chemistry 1956, Founder, Auxichem Pvt. Ltd.



**2000**  
**MR. Z.F. LASHKARI**  
B.Sc. (Tech) Oils, Fats & Waxes 1956, Founder President, Yezper Consultants



**2001**  
**MR. C.J. BHUMKAR**  
M.Sc. (Tech) Plastics 1959, Founder, Soujanya Enterprises



**2001**  
**PROFESSOR K.D. MUKHERJEE**  
M.Sc. (Tech) Oils, Fats & Waxes 1961, Professor, Institute for Biochemistry & Technology of Lipids, H.P. Kaufmann-Institute



**2001**  
**DR. R.Y. MANTRI**  
PhD Chemistry 1974, Chairman and Managing Director, Beeta Chemicals



**2002**  
**PROFESSOR E.H. DARUWALLA**  
B.Sc. (Tech) Textile Chemistry 1942, Former Director, UDCT



**2002**  
**DR. N.V. BRINGI**  
PhD Chemistry 1955, Chief Scientist, Hindustan Lever Research Centre

## DISTINGUISHED ALUMNI



**DR. V.D. SHAH**  
B. Chem. Eng. 1956,  
Executive Chairman,  
Chembond Chemicals Ltd.



**MR. P.M. PATIL**  
B. Chem. Eng. 1969,  
Managing Director,  
Aarti Drugs Ltd.



**MR. R.A. BAKSHI**  
B. Chem. Eng. 1956,  
Former Director,  
Indian Organic Chemicals Ltd.



**DR. HAREN S. GANDHI**  
B. Chem. Eng. 1963,  
Ford Technical Fellow and Manager of Chemical  
Engineering Dept, Ford Motor Corporation, USA



**DR. B.S. JOSHI**  
PhD (Tech). Dyes 1951,  
Research Scientist at the Institute for Natural Products  
Research, University of Georgia, Athens, USA



**PROFESSOR A.P. KUDCHADKER**  
B.Sc. (Tech) Oils, Fats, Waxes 1958,  
Former Deputy Director,  
Indian Institute of Technology, Bombay



**MR. O.P. MALHOTRA**  
B. Chem. Engg. 1956,  
Director, Philips Carbon Black Ltd.



**DR. V. SRINIVASAN**  
B.Sc. (Tech), Chem. Eng. 1951,  
Indian Administrative Services,  
Government of Maharashtra



**MR. R.T. BANDODKAR**  
B. Chem. Eng. 1962,  
Managing Director,  
Hindustan Monomers Pvt. Ltd.



**MR. V.Y. DIVEKAR**  
B.Sc. (Tech), Chem. Eng. 1946,  
Technical Director,  
Indian Organic Chemicals Ltd.



**MR. A.E. LADHABHOY**  
M.Sc. (Tech) Plastics 1956,  
Chief Executive,  
Plastiblend India Ltd.



**DR. M.V. NIMKAR**  
B.Sc. (Tech) Textile Chemistry 1945,  
Founder,  
Texanlab



**MR. K.L. RATHI**  
B.Sc. (Tech) Dyes 1961,  
Executive Chairman,  
Sudarshan Chemical Industries Ltd.



**MR. N.V. BHAGWAT**  
B. Chem. Eng. 1972,  
Chairman,  
Quality Industries



**PROFESSOR S.B. CHANDALIA**  
B. Chem. Eng. 1960, M.Sc. (Tech) 1962,  
PhD (Tech) Chemical Engineering 1967,  
Former Director, UDCI



**MR. MANOJ H. MODI**  
B.Chem.Eng. 1979,  
Senior Executive,  
Reliance Industries Limited



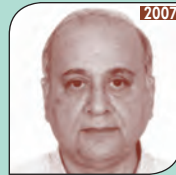
**PROFESSOR G.D. YADAV**  
B.Chem.Eng. 1974,  
PhD (Tech) Chemical Engineering 1980,  
Vice Chancellor, Institute of Chemical Technology



**PROFESSOR P.R. KULKARNI**  
B.Sc. (Tech), Foods 1966,  
Professor and Head Dept. of Food Technology  
Institute of Chemical Technology



**MR. N.R. MESWANI**  
B.Chem.Eng. 1989,  
Executive Director,  
Reliance Industries Ltd.



**MR. Y.M. KOTHARI**  
B.Chem.Eng. 1971,  
Managing Director  
Alkyl Amines Chemicals



**MR. S.M. MOKASHI**  
B.Chem.Eng. 1958,  
Managing Director,  
Xytel India



**DR. A.B. PANDIT**  
PhD (Tech) Chemical Engineering 1984,  
Professor,  
Institute of Chemical Technology



**MR. BIPIN M. SHAH**  
B.Chem.Engg. 1966,  
Former President,  
Plastindia Foundation



**MR. D.G. UDASA**  
B.Sc. (Tech) Dyes 1972,  
Founder,  
Speciality Molecules Pvt. Ltd.



**DR. RAMESH C. AWASTHI**  
PhD (Tech) Chemical Engineering 1982,  
Founder,  
Masum NGO



**MR. VIJAY H. JADHAV**  
B.Chem.Eng. 1989,  
I.A.S.  
Director, Indian Film Archive



**MR. SATISH M. JOSHI**  
B.Chem.Eng. 1973,  
Managing Director,  
SBI Cap Securities Ltd.



**MR. D. SRINIVAS**  
B.Sc. (Tech) Dyes 1984,  
Singer



**DR. PRAKASH D. TRIVEDI**  
M.Sc. 1970,  
Managing Director,  
Solvay Specialities India.



**PROFESSOR M.R. BAICHWAL**  
B.Sc. (Tech), PhD (Tech), Pharma. 1957,  
Former Director,  
C U Shah College of Pharmacy,  
SNDT University

## DISTINGUISHED ALUMNI



**2009**  
**PROFESSOR S.V. SUNTHANKAR**  
B.Sc. (Tech) Chem. Eng. 1941; PhD (Tech),  
Former Professor of Dyestuff Technology,  
Institute of Chemical Technology



**2009**  
**MR. D.K. DESHPANDE**  
B.Chem. Eng. 1976,  
Executive Director,  
Hindustan Petroleum Corporation Ltd.



**2009**  
**MR. A.R. BOOB**  
B.Chem. Eng. 1974,  
Founder Director,  
Clean Science and Technology Pvt. Ltd.



**2009**  
**MR. BHARAT KAMDAR**  
B. Chem. Eng. 1974,  
President,  
Ingenuous Inc.



**2010**  
**DR. R.B. MITRA**  
PhD (Tech) Dyestuff 1956,  
Former Director,  
Central Leather Research Institute



**2010**  
**PROFESSOR R.P. IYER**  
B.Sc. (Tech) 1973, M.Sc. (Tech) Pharma. 1975,  
Chief Scientific Officer  
Spring Bank Pharmaceuticals Inc.



**2010**  
**MR. N.V. DHEKNE**  
B.Chem. Eng. 1979,  
Director,  
Hercules Asia Pacific- Aqualon Division



**2010**  
**MR. A.A. PANJWANI**  
B.Chem. Eng. 1972,  
Bharuch Enviro Infrastructure Ltd.



**2010**  
**MR. HARSHAVARDHAN V. BHAWE**  
B.Sc. (Tech) Textile 1980,  
Managing Director  
Berg + Schmidt Asia Pacific Pvt Ltd.



**2010**  
**MR. ASHVIN J. DESAI**  
B.Chem. Eng. 1974,  
Managing Director,  
Anupam Rasayan Ltd.



**2011**  
**DR. DEEPA V. BHAJEKAR**  
PhD. Industrial Microbiology 1992,  
Managing Director,  
Microchem Laboratory Pvt. Ltd.



**2011**  
**DR. ASHOK B. AMIN**  
B.Chem. Eng. 1961,  
Chairman & Managing Director,  
Aron Universal Limited



**2011**  
**MR. LALCHAND N. GANDHI**  
B.Sc.(Tech) Textile Chemistry 1957,  
Chairman and Managing Director,  
L.N. Chemical Industries



**2011**  
**MR. MADHUKAR A. NAIK**  
B.Chem.Eng. 1976,  
Managing Director,  
Aquachem Enviro Engineers Pvt. Ltd.



**2011**  
**DR. KISHORE M. SHAH**  
B.Sc. (Tech) Dyestuff 1961,  
Chairman,  
Sauradip Chemical Industries Pvt. Ltd.



**2011**  
**DR. N.M. SARAF**  
PhD. Textile Chemistry 1980,  
Technical and Sales Director,  
Sarex Chemicals Ltd.



**2011**  
**MR. ANAND K. APTE**  
B.Chem.Eng. 1972,  
Managing Director,  
Merck India Ltd.



**2011**  
**MR. BHARAT I. BHATT**  
B.Chem. Eng. 1968,  
Chairman,  
Avishkar Consultancy Services



**2011**  
**MR. S.R. PARANJAPE**  
B.Chem. Eng. 1955,  
Former Director,  
Indira Gandhi Center for Atomic Research



**2011**  
**DR. VIVEK V. RANADE**  
B.Chem. Eng. 1984,  
PhD (Tech) Chem. Eng. 1988,  
Deputy Director, CEEP, National Chemical  
Laboratory



**2011**  
**DR. AJIT V. SAPRE**  
B.Chem. Eng. 1976,  
President,  
Reliance Technology Group, RIL



**2011**  
**DR. VINAY C. VORA**  
B.Sc. (Tech) Pharma. 1947,  
Former Director,  
Institute of Microbial Technology, Chandigarh



**2011**  
**MR. SHRIKANT DESHPANDE**  
B.Chem. Eng. 1984,  
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**PROF. DHIREN R. THAKKER**  
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Managing Director - Rudolf Atul Chemicals Limited  
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Former Director, B.A.R.C.



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Professor of Chemical Engineering & Head,  
DBT-ICT Centre for Energy Biosciences, ICT  
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**PROFESSOR SMITA S. LELE,**  
Registrar and Professor of  
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**SHRI SUNIL RAMANAND,**  
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Technological University, Lonere



**DR. R. P. VERMA**  
Ph.D (Tech) Chem.Eng. 1974  
Consultant / Advisor, (freelance) to Oil /  
Energy / Chemical Companies



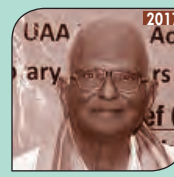
**MS. JAYASHREE THACKER**  
B.Pharm. (1983)  
President and Country Manager and Director  
on the Board of four group companies of  
Perkin Elmer India Pvt. Ltd.



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Managing Director and Group CEO,  
VA Tech Wabag Ltd.



**MR. HIRALAL SABADRA**  
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**MR. MUKUND TURAKHIA**  
B.Chem. Engg. (1966)  
Managing Director, Neelikon Food  
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**DR. ANISH ANDHERIA**  
Ph.D. (Science) 2001  
Current Designation - President -  
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**PROF. K. D. P. NIGAM**  
Ph.D. (Tech) Chemical Engineering 1977  
Current Designation - Emeritus Professor,  
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**DR. VILAS H. DAHANUKAR**  
M. Pharm Pharmaceuticals 1988  
Current Designation - Chief Scientist-Process  
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CEO, Swipe Technologies Pvt Ltd



**MR. SNEHA JAIN**  
B. Tech. (Pharma) (2007)  
Strategy Consultant, McKinsey & Co.

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# UDCT DIAMONDS 1994



**Mr. Mukesh D. Ambani**  
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Vice Chairman Reliance Industries Ltd.



**Mr. K. H. Gharda**  
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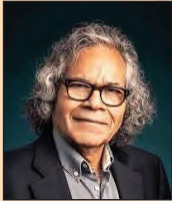
**Mr. S. S. Gothaskar**  
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**Prof. J. B. Joshi**  
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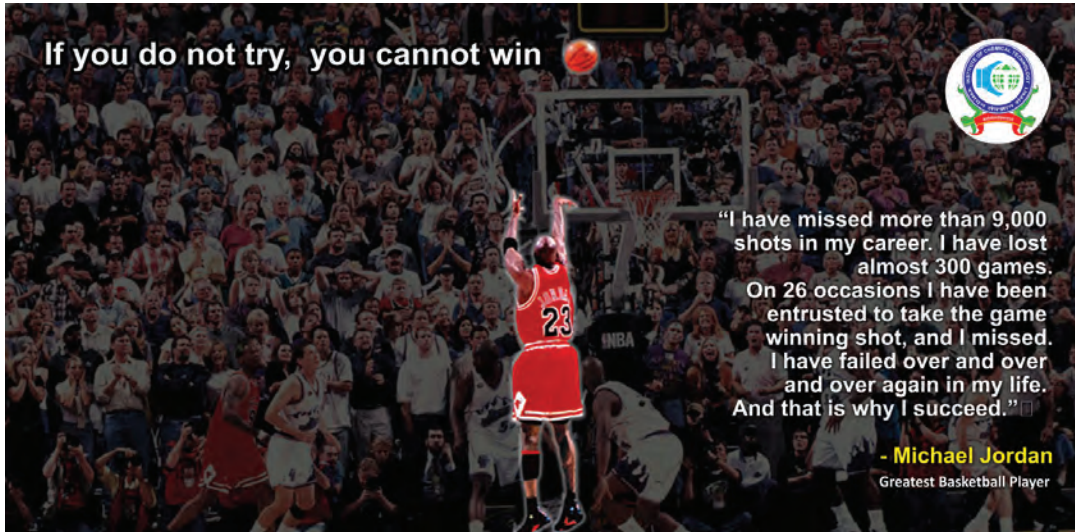
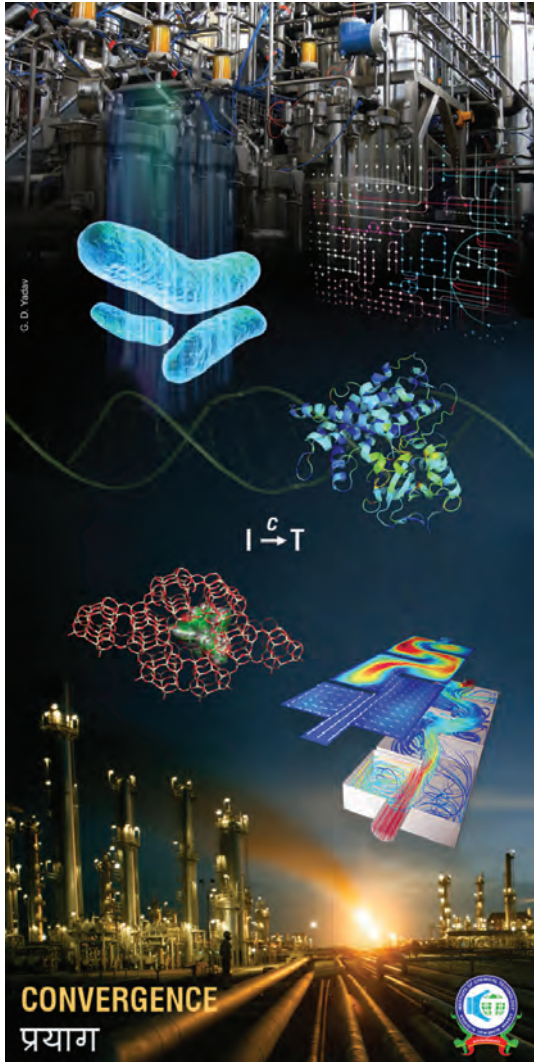
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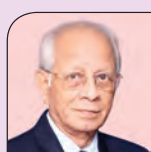
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*Department of Food Engineering and Technology  
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**Dr. HOMI SETHNA**

**1975**  
PADMA  
VIBHUSHAN  
Chairman,  
Atomic  
Energy  
Commission

**1959**  
PADMA  
SHRI  
Director,  
BARC



**PROF. M M SHARMA**

F.R.S., F.N.A., F.T.W.A.S.

**2001**  
PADMA  
VIBHUSHAN  
Former  
Director,  
UDCT/ICT

**1987**  
PADMA  
BHUSHAN  
Professor of  
Chemical  
Engineering,  
UDCT



**DR. R A MASHELKAR**

F.R.S., E.N.A., F.T.W.A.S.

**2014**  
PADMA  
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National  
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Chancellor,  
ICT

**2000**  
PADMA  
BHUSHAN  
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General, CSIR

**1991**  
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NCL,  
Pune



**PROF. K VENKATARAMAN**

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**1961**  
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National Chemical Laboratory, Pune  
and Former Director, UDCT



**PROF. B D TILAK**

F.N.A.

**1972**  
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National Chemical Laboratory,  
Pune and Former Professor of  
Dyestuff Technology, UDCT



**PROF. A SREENIVASAN**

F.N.A.

**1974**  
PADMA BHUSHAN

Former Head &  
Professor of Food Technology &  
Director, CFTRI, Mysore



**DR. K ANJI REDDY**

**2011**  
PADMA  
BHUSHAN

Chairman,  
Dr Reddy's  
Laboratory,  
Hyderabad

**2001**  
PADMA SHRI



**PROF. J B JOSHI**

F.N.A., F.T.W.A.S.

**2014**  
PADMA BHUSHAN

Former Director, ICT  
J. C. Bose National Fellow



**DR. A V RAMARAO**

F.N.A., F.T.W.A.S.

**2016**  
PADMA  
BHUSHAN  
Chairman, AVRA  
Labs & Former  
Director,  
IICT, Hyderabad

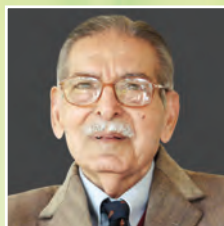
**1991**  
PADMA SHRI  
Director, ICT,  
Hydrabab



**DR. G P KANE**

**1968**  
PADMA SHRI

Former Director, DGTD, and  
Former Professor of  
Chemical Engineering, UDCT



**DR. NITYA ANAND**

F.N.A.

**2012**  
PADMA SHRI

Former Director, CDRI,  
Lucknow



**DR. K H GHARDA**

**2016**  
PADMA SHRI

Chairman & Managing  
Director,  
Gharda Chemicals Ltd



**PROF. G D YADAV**

F.N.A., F.T.W.A.S.

**2016**  
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Vice Chancellor & R T Modi  
Distinguished Professor, ICT  
J. C. Bose National Fellow

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