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#### MESSAGE

I am pleased to learn that that the Alumni Association of the Delhi College of Engineering (now Delhi Technological University) is organizing its Annual Alumni Meet in Delhi on 31st March 2018.

As the Chancellor of DTU, I take immense pride in the quality of education imparted here. It is a prestigious institution and its Alumni have made significant contribution across diverse fields.

I am happy to know that the Association regularly provides a forum for connecting the Alumni and recognizing their achievements. I am sure that DTU will continue to chisel and hone skills of our youth, to become bright leaders of tomorrow.

I once again extend my warm greetings to the Alumni Association and wish the Alumni Meet a great success.

(Anil Baijal)











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# ARVIND KEJRIWAL CHIEF MINISTER





GOVT. OF NATIONAL CAPITAL TERRITORY OF DELHI DELHI SECRETARIAT, I.P. ESTATE, NEW DELHI-110002 PHONE: 23392020, 23392030

D.O. No.: OSD(MI/22 Date: 21/03/2018

#### MESSAGE

It gives me immense pleasure to know that **Alumni** Association of Delhi College of Engineering (Now Delhi Technological University) is organizing its' Annual Alumni Meet-2018 on 31<sup>st</sup> March in Delhi.

It is a matter of great pride that the Delhi College of Engineering, which is now popularly known as Delhi Technological University is one of the oldest institutions in India. It stated functioning as Delhi Polytechnic in the year 1941 to cater to the needs of the Indian Industry for trained manpower. In its glorious existence of over past 76 years, it has produced thousands Engineers, who have contributed immensely to the development of the industries in India as well as globally in areas like Administrative Services, Atomic Energy, Defence, Infrastructure Development, Railways and Telecommunications.

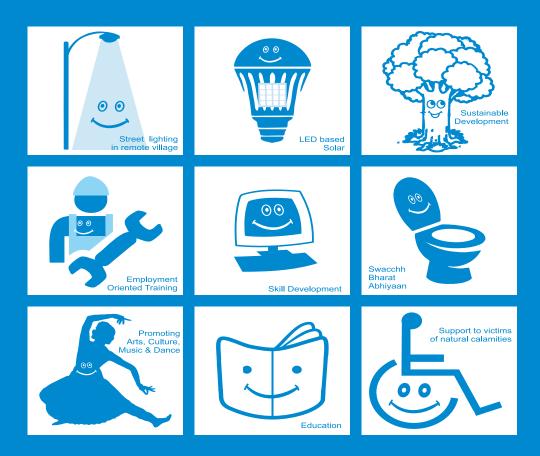
The Government of Delhi is committed to develop and nurture the Delhi Technological University to its' fullest potential so that the students of Delhi continue to take pride in this institution.

I am sure that the students at DTU are inspired by the achievements of their alma mater and are well prepared for their better future.

I extend my heartiest congratulations to the Alumni members and for success of the entire endeavour.

(Arvind Kejriwal)

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नई दिल्ली-110002
Email: msisodia.delhi@gov.in

D.O. No. 582 DY 2018

Date: 09th March, 2018.

#### **MESSAGE**

I am happy to learn that that the Alumni Association of the Delhi College of Engineering (now Delhi Technological University) is organizing its Annual Alumni Meet on 31st March, 2018 in Delhi.

As Deputy Chief Minister of the State of Delhi, I am very proud of this prestigious technology institute in my state. I am aware that it occupies a very high position in overall ranking of the technological institutes in the country. DTU has enhanced its services to the country and now is providing MBA also, besides the technical streams leading to B.Tech, M.Tech and PhDs. The institute has been providing quality education to its students who have proved their caliber and are serving the country in almost all sectors of the economy.

I am happy to know that the Alumni Association provides a forum for connecting the Alumni regularly and recognizes their contributions to the country by awarding Life Time Achievement, Distinguished Alumni to its alumni who have excelled in their fields with exemplary services.

On this occasion, I extend my warm greetings and felicitations to the Alumni Association and wish the Alumni Meet all success.

(MANISH SISODIA)

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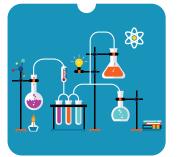


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# Alumni Association, Delhi College of Engineering



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Suresh Raheja Vice President



**Dr. Muktesh Chander**Vice President



**Dr. Dipti Mal**Joint Secretary &
Secretary (OC -2018)



Sunil Kumar Saxena Chairman (OC-2018)

# Governing Council Members



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Satish Kumar Vij



Rajeev Agarwal



**Bir Singh** 



Ms. Renu Gupta



Sagar Maji



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**Akhil Choudhary** 



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ENFORCEMENT DIRECTORATE

Government of India 6th Floor, Lok Nayak Bhawan, Khan Market, New Delhi-110 003 Tel.: 24693577 Fax: 24631847

MESSAGE



Dear Alumni,

It is a matter of great pride that keeping with its tradition, the Alumni Association of Delhi College of Engineering – Delhi Technological University is organising its annual get together on 31.03.2018 at the Air Force Auditorium in Delhi. On this occasion the Alumni from all over the world will meet, celebrate and rejoice.

The Alumni Association headed by Mr.Sanjay Diwan and organising committee headed by Mr.Sunil Saxena, along with their teams, have spent tremendous energy and efforts in organising the event.

I wish the Alumni Meet 2018 to be a grand success.

Yours sincerely,

(KARNAL SINGH)

Patron

Alumni Association, Delhi College of Engineering (DCE-DTU Alumni Association)

## Message From President



Founder & Managing Director

Consulting IN.

New Delhi, India

Dated 31st March 2018

Dear Friends,

We are glad to have you all back on the occasion of the Annual Alumni Meet 2018 – at our same venue to live nostalgia and create new memories of togetherness. Our alma mater - Delhi Polytechnic, Delhi College of Engineering and Delhi Technological University, has a glorious past with contributions by our fellow alumni world over. We express our gratitude to all the Vice Chancellors, Principals and the Faculty Members through the 77 years for creating the best of engineers serving the world.

The association continues to work in developing strong connect for alumni with the DTU Management, Faculty & Students facilitating mentorship & funds for projects to support new initiatives. The Alumni Association USA Chapter organized second Annual Meet in February 2018. We look to expand the network globally with chapters in Europe &, South Asia next and also in India. We have excellent support from the Vice Chancellor Yogesh Singh, Pro Vice Chancellors Prof. SK Garg, & Prof Anu Singh Lather, Dean Alumni Affairs Prof Pravir Kumar, Registrar Samsher Singh and PRO Mr. Anoop Lather, a huge thank you to each of them and all as well as all the Deans, Faculty & staff on behalf of the entire alumni fraternity. We look to ramp up support for the DTU Technology Business Incubator which has been helping students, alumni and faculty to start new business at in-house Start-up Facility including financial support with help from all alumni..

I am glad to share the contributions from our overseas alumni has increased multifold for scholarships and student projects. The facility at DTU is slated to expand and we are committed to support new projects of DTU to create new world class level facilities for the students. The group volunteers keep growing in both contributions and numbers, helping us with new initiatives to connect with more and more alumni across the world. We changed the engagement model five years back to bring in alumnus from recent batches in organising various activites of the association. The inclusive approach is paying back rich dividends as the numbers of connected alumni community has grown.

My team of Governing Council continues to focus on inclusive growth, all round excellence and change as a constant in our fresh evolving journey. The number of students graduating from DTU every year has increased manifold with over 1500 new alumni joining our fraternity every year.

At this year Annual Alumni Meet, we will be felicitating alumni of Golden Jubilee Batch of 1968 and the Silver Jubilee Batch of 1993, my congratulations to them and best wishes to each one of them.

I heartily congratulate the Awardees -Distinguished Faculty & Distinguished Alumni for their individual achievements and excellence in their professional careers and the Meritorious Students.

I like to compliment the Governing Council and specially the Organising Committee with Mr. Sunil Kumar Saxena (1979, Electronics) as Chairman and Mr. Dipti Mal (1987, Mechanical) as Secretary and his team, for organising the Annual Alumni Meet 2018.

I must acknowledge and extend special gratitude to all new volunteers and other members of the Organising Committee and Governing Council for their contributions.

My best wishes for all of you and your families!

Yours sincerely,

San<del>j</del>ay Diwan

President

Alumni Association, Delhi College of Engineering (DCE-DTU Alumni Association)

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## Message From Vice President



Suresh Raheja
Vice President
Alumni Association, Delhi College of Engineering
(DCE-DTU Alumni Association)

DCE-DTU, as the name suggests, carefully weighs out and provides a balance that is not only enriching academically but at the same time we lay special emphasis on the overall development of every student. We guarantee an educational experience that will recognize individual strengths and talents and help each one reach the zenith of success. We, at the Alumni Association Delhi College of Engineering, are happy to be associated with one of the premier institutions in the country, imparting engineering education to bright minds of the day, and preparing them for objectives, detailed above.

I am extremely happy to address you all through the alumni association of our college. I am continuously amazed that how well we have emerged out in all walks of life spanning across the entire globe. Credit on the noble role of our college towards shaping us what we are today. We at the Alumni Association have a mission to create and disseminate knowledge by developing and widening the quest quotient of our students with enthusiasm and excellence. Our belief is that education cannot be confined within the boundaries of an institution and grows with every passing moment of a student's life. Keeping this in mind we encourage our students to take the initiative to explore themselves and realize themselves to their full potential. Our state of the art infrastructure along with our corporate interface program provides the students with the ideal platform to harness their energies giving them an opportunity to pursue their goals.

I wish you all to passionately foster an ardent and emotional attachment towards our college, Together we can brighter the prospects of our alma mater by establishing a legacy that will maintain the name of the college in high esteem, honor and reputation, You are the foremost assets of the college in steering it on the road of rich heritage to the proud position of one of the enlisted institutions of technical education on the world.

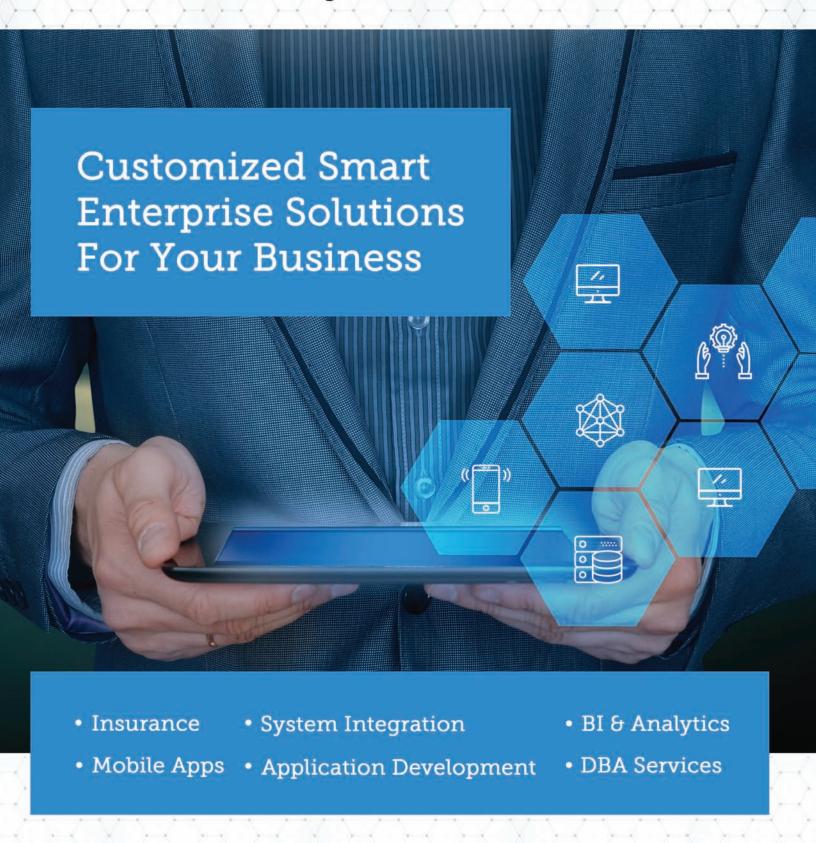
Looking forward for your proactive participation in the activities of our alumni association in whatever way you are interested in would definitely, be a delight to watch.

Earnestly soliciting your Midas touch with best wishes to all of you, your family and friends.

Warm Regards

Suresh Raheja

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## Message From Vice President



S. M. Mahajan
Vice President
Alumni Association, Delhi College of Engineering
(DCE-DTU Alumni Association)

The Alumni Association of DCE conducts every year, its flagship event - the "DCE-DTU Alumni Meet". It provides a platform for the Alumni to meet and know each other better and spend valuable time with friends and college batch mates. Thanks to the consistent commitment and hard work of the Governing Body and Organising Committee, the popularity of the Meet and the participation has been increasing year by year.

The recognition of significantly noticeable contributions made by the Alumni in various fields/ sectors and the awards conferred to them have been very widely appreciated. The selection is made on a well-established criterion. I congratulate this year's Awardees. They have brought laurels to the college and we are proud of them and wish them more success and recognition.

The Golden and Silver Jubilee batches find the Meet a special event to celebrate the milestone with their batch mates. I wish them well

I wish the Annual Meet 2018, scheduled on 31st March, all success. I am sure, the large participation will make the event memorable and enjoyable.

S.M. Mahajan
Adviser (Power Sector)
Former Executive Director - BHEL

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Dr. Muktesh Chander, IPS



#### **MESSAGE**

On the occasion of the Annual Alumni Meet-2018 of Delhi College of Engineering-Delhi Technological University, I wish the Alumni and their families successful, prosperous and happy future.

As you are aware, Delhi College of Engineering was established in 1941 as Delhi Polytechnic and later renamed as Delhi College of Engineering. Now it is known as Delhi Technological University which offers a large number of courses including MBA and Ph.D.

Alumni Association has been conducting a number of programmes throughout the year to connect the Alumni, the university and the current students. The annual meet is the culmination of these year long efforts.

I am very happy to note that today the students of this great institute can be found occupying highest positions in Industry, Government, Civil Services etc. not only in India but all over the world. Their contributions are well known and are acknowledged by Alumni Association also through various awards such as Life Time Achievement Award, Distinguished Alumni Award and Trailblazer Award.

I send my good wishes for the success of this meet and happy & prosperous career of all the Alumni Association members.

Dr. Muktesh Chander Vice President DCE-DTU Alumni Association

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# Chairman, Organising Committee-2018



**Sunil Kumar Saxena** D.G. (Telecom), Govt. of India

Dear Alumnus,

As usual, we DCEites including our families have once again gathered for the Annual Meet, to enjoy together with our families a long awaited fun filled evening, refreshing our memories of college days, and to reinforce eternal bonds between us as DCEites.

Your Esteemed Association has been spreading its wings beyond just organising Annual Meets. The Association has started honouring Distinguished Alumni & Distinguished Faculty during the Annual Meets, Awarding meritorious students, and organising productive events periodically at the Campus. Endeavour of the Association is to keep strengthening connection between all of us, and also catalyse connection between the College (now DTU) and Industries.

I tender my apologies to all alumni, since the Association could not organise the annual meet in month of January as usual. Delayed Annual Meet this year is because of reasons beyond control of the Association. Despite numerous challenges, your Association has organised the Annual Meet-2018. I need to share with you that every Organising Committee member deserves loud applause for putting in one's best efforts untiringly, for past many months, to ensure this annual mega event a great success in year 2018 as well.

Sunil Kumar Saxena
Chairman, Organising Committee
Annual DCE-DTU Alumni Meet-2018



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## Secretary, Organising Committee-2018



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Dr. Dipti Mal
Joint Secy,
Alumni Association, Delhi College of Engineering
(DCE-DTU Alumni Association)
Organizing Secretary ,Meet-2018

Dear Friends.

I wish you and your family a very Happy New Year 2018. I also extend my sincere thanks to all the members of the DP-DCE-DTU fraternity who despite the busy schedule of their wards board examinations are able to spare time to attend this august gathering.

Most enthusiastically we have put in our efforts to organise DCE-DTU Annual Alumni Meet - 2018 on 31<sup>st</sup> March 2018 at Air force Auditorium, Subroto Park, New Delhi with the humble mission of enlarging the circumference of this Annual gathering.

First of all, I would like to convey my gratitude to all my seniors in the Association for their co-operation, support and good-will extended to me during the past years which immensely contributed in proper transition of my charter of duties. Jointly, I resolve to strive further to achieve scales of our mission for higher level of performance.

If almighty spare me a moment to go back to cherishing my college days I would definitely grab it" Unfortunately our registered membership base is very low till today and to increase our membership base we have launched various plans but this cannot be achieved without your support and co-operation to ask your batch mates to join the Association and make it a strong body.

Despite various social and business networking sites where we can meet virtually; this Annual Meet brings in all possible reasons to oblige us to spare an evening for a beautiful flashback of our lives. I can see that each one attending this meet lives an age in that evening. Towards the end of this evening we say adieu to each other and go back with fond and ornate memories to be enjoyed till we meet next time.

Finally, I compliment the whole team of Alumni Association and all others who directly or indirectly contributed in making the Meet an invigorating success and wish every one a very Happy and Prosperous year 2018 again. *Adios – till we meet again* 

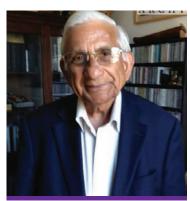
Dr. Dipti Mal

# MAR31-APR1 NSIC GROUNDS, OKHLA



#### A Tribute to a DP Soldier

Dr. Bal Raj Sehgal was born in Peshawar Cantonment in North West Frontier Province, now Khyber Pakhtunkhwa in 1933. His parents moved to Peshawar from Punjab for his father's job in the British administration. He lived together with his parents, two brothers, a sister, and later his greatgrandfather. He walked four miles to and from school every day and voraciously read the newspaper with his greatgrandfather. He spoke Punjabi at home and Urdu at school, and visited Punjab a few times each year with his family for Dr. Balraj Sehgal marriages and other celebrations.



(Delhi Polytechnic 1954 Batch)

His father wanted to protect his family from violence, so a few months before Partition he sent his wife and all of his children to Lahore, where they had a family connection. Dr. Sehgal's older brother had a machine shop in the city. But as it became clear that the border was going to be in different location, the family moved again three months later to Amritsar. His sister and her family were living In Amritsar at that time. He remembers the train journeys to Lahore and Amritsar as quite unsettling at times.

His family soon decided to move to Delhi. On the train ride to Delhi, he felt unsafe, he says. His family traveled with all the windows closed and the door locked and propped shut so that no one could come in. On the way, he saw the dead and the dying by the sides of the tracks.

Mr. Sehgal studied engineering at the Delhi Polytechnic (later known as Delhi College of Engineering and now as DTU) situated in Kashmere Gate, Delhi and graduated in 1954. Dr. Sehgal worked at BARC in Trombay, Bombay after completing his studies in Delhi and later, at 23 years old, went to University of California, Berkeley for four years for a PhD in nuclear engineering. He was the first in his family to go to the United States. After earning his degree, he went to back home and then to Chicago, Illinois for a postdoctoral degree. In Chicago, he met his wife, who had emigrated from Lithuania in 1948. He moved to Brookhaven, New York for his work at a national lab, and they then got married in 1967. After living there and in California they moved in 1992 to Sweden where he was offered a professorship in nuclear energy and safety.

He was also invited to be Professor Emeritus at the Institute of Technology in Sweden.

He was considered one of the topmost experts in nuclear safety issues and was a regular speaker at international conferences on this subject.

Dr. Sehgal passed away in February, 2018 in San Francisco. A prayer meeting was held in Delhi on 22 March where many of his friends and family paid tributes to him. Lt Gen K K MEHRA, who was also our classmate, spoke on the occasion.

I was privileged to be his classmate and to have known him.

(Inputs provided by Sh. Sat Goel, DP-1954 and the FB page of The 1947 Partition Archive)

# Distinguished Faculty



PROFESSOR RAMESH CHANDRA SHARMA (A Brief Biographical Sketch)

Born on October 2<sup>nd</sup>, 1951 at Manzoorgarhi (Aligarh) in Uttar Pradesh, **Professor Ramesh Chandra Sharma** earned Gold Medal in M.Sc. (Chemistry) in 1972. He obtained his Doctorate Degree from University of Delhi in 1977 under the supervision of Prof. H.C.Gaur and continued to work in his laboratory & guided 6 students for their Ph.D. Degree. Dr. Sharma enriched his knowledge by attending specialized courses at IIT Bombay, IIT Kharagpur, Roorkee Univeristy, CECRI Karaikudi, NIESBUD Delhi and NISIET Hydrabad. He has been accredited Professional Trainer for Entrepreneurship Motivation and Small Business Development Training by NIESBUD Delhi and NISIET Hydrabad.

Prof. Sharma has over 33 years of experience of research, over 28 years of experience of teaching UG & PG classes and 14 years of experience of professional trainer for entrepreneurship development. Prof. Sharma has made significant contribution in the study of transport phenomenon in molten electrolytes and ionic solutions and published 12 papers in American and European journals. Later on, he concentrated on the R&D in polymer science & technology specially electrically conducting polymers and superplasticizers. Last 3 years have seen Prof. Sharma to conduct research in the area of food science, enzymatic extraction of oils and bio-methanation of vegetable waste. Presently Prof. Sharma is taking keen interest in the R&D of Biopolymers, grafted biopolymers, bioactive polymers, biodegradable polymers, biomedical polymers etc. He has published 28 research papers in national and international journals, presented and published his work at various seminars & conferences in the form of 46 articles, edited 10 proceedings of National Seminars, written 4 books and organized 66 seminars/ conferences on various themes of current interests. He has supervised large number of students for their Ph.D. Degree, M.Sc. in food science and M.E. Degree in polymer technology. Prof. Sharma has also undertaken sponsored research project of CSIR & UGC.

**Prof. Sharma** has taken keen interest in the development of entrepreneurial culture in the large number of academic institutions affiliated to Delhi University. He has organized more than 100 Entrepreneurship Awareness and Motivation Programs for the science & technology students. He has also successfully conducted the **vocational training programs for the benefits of SC/ST** candidates of Delhi. He has also organized multi-purpose mechanic training under a project financed by Department of Science & Technology, Government of India. **Prof. Sharma** has done an excellent work for the academic development of Bundelkhand University, Jhansi. He was Director (self-financed courses) for 3 years at Bundelkhand University (during Sept. 1999 to Sept 2002) during which large number of vocational, technical, management courses were introduced. During this period Prof. Sharma also acquired the skills of University administration as he occupied the officiating position of Finance Officer, Registrar and Dean. Not only he has successfully conducted the various entrance examination of University for 3 years, he was also associated with the conduct of UP CPMT examination-2002.

Prof. Sharma has been awarded with the Award of Honor by Soka University Japan. He is life member and honorary member of several National and International Professional societies. Prof. Sharma brings with him a combination of first class academician, an active research worker, visionary educational administrator, professional trainer with positive and entrepreneurial attitude and highly professional approach for intimate industry interaction. Prof. Sharma has a unique vision of his own for educational system. He believes in providing flexible and innovative curriculum having optical mix of State-of-art theoretical knowledge, creative practical skills, management, entrepreneurship and personality development. He has strong faith that R&D is important for appropriate technology and sustainable development. Intimate Industry-Institution partnership, efficient administration, modernization of infrastructure and faculty motivation are essential for a successful institution. Prof. Sharma also believes in optimal utilization of resources and advocates for cost reduction in higher technical and vocational education.

# Expertise

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#### Concept to Commissioning

भारत में 375 से अधिक ऐतिहासिक परियोजनाओं और दुनिया भर में 125 से अधिक परियोजनाओं के साथ, इरकॉन ने बुनियादी ढांचे के क्षेत्र में अपनी साख को साबित कर दिया है |

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#### कार्यक्षेत्र

- रेलवे
- विद्युत
- सिगनल और दुरसंचार
- यांत्रिक
- राजमार्ग
- पूल एवं फ्लाईओवर
- बिल्डिंग / मल्टी फंक्शनल कॉम्प्लेक्स





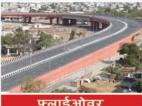




सिग्नल









# इरकॉन इंटरनेशनल लिमिटेड

(रेल मंत्रालय के अधीन सार्वजनिक क्षेत्र का उपक्रम)

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प्रगति की ओर अग्रसर

## Distinguished Faculty



**Prof. N. K. Jain**(A Brief Biographical Sketch)

Prof. N. K. Jain has very long association (**51 years**) with Delhi College of Engineering/ Delhi Technological University. He was admitted to this college in 1967 in Electrical engineering branch. Prof. N. K. Jain **passed** his graduation in electrical engineering in 1972, masters in 1981 and Ph.D (Electrical Power Systems) in 1989 from Delhi College of Engineering, but **not out** yet.

Prof. N. K. Jain joined Delhi College of Engineering as a regular faculty in 1979. He held the positions of Assistant Professor from 1992 to 1999 and Professor from 1999 to 2015. He superannuated in 2015 and is still working as Professor of Electrical Engineering at Delhi Technological University. He has held various responsible positions in DCE/DTU including Dean (Continuing education), Member of Board of Management and Officer-Incharge for the evening branch.

He has published 52 research papers. The areas of his research have been Economic Operation of Electrical Power Systems, Optimal Load Flow Studies, entrepreneurship Development, Technical Education and Energy Conservation. He has guided a few Ph.D students. He has also authored 5 text books. He has organized a number of conferences, entrepreneurship awareness camps and participated in various academic, administrative and cultural activities of the college..











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Shriram School



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BBPL has the expertise in executing the entire spectrum of construction activities relating to building construction from making pure structures to high quaity hard finishes, interiors and external development as well as services such as electrical, plumbing, HVAC and fire fighting.

We give our clients unmatched quality of personalized service and maintain our focus on quality. Growth for us means not only higher sales but excellence in quality, delivery and safety standards.

We at BBPL are proud of our portfolio that comprises prestigious projects such as the Parliament Annexe, the Embassies of Finland, China and The United Republic of Tanzania. Institutional projects such as Jawaharlal Nehru University, Alliance Franciase de Delhi, Sri Ram School, Offices for GAIL, Ranbaxy, Ashok Leyland, India Glycol, Eli Lilly, I.T parks for ST Micro, Logix Park, Nucleus Software, Acropolis,IGL, ICAI, House of Pearl, Premier INN, Noida and the upcoming NIIT SEZ, factory facilities for Duracell India, Lumax Industries and Becton Dickinson. Residential projects such as Aradhna Apartments, IFS and GAIL co operatve societies as well as Oakwood, Carlton, Exclusive Floors and Western Heights for DLF and hotel projects from the renovation for the Imperial Hotel, to the upcoming IBIS Gurgaon and Marriot, Amritsar.

The BBPLteam has worked with leading architects in India including Stein, Mani and Chowfla, Morphogenesis, C.P. Kukreja& Associates, Hafeez Contractor, Design Plus, Raili and ReimaPietila(Finland), Raj Rewal& Associates, SpazzioDalal, Rajinder Kumar and associates and SWBI to name a few.

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## Distinguished Alumni



**Arun Goyal** 

Shri Arun Goyal is an Indian Administrative Service (IAS) officer of 1985 batch. He graduated in electrical engineering from Delhi College of Engineering in 1980 and completed his PGDM (MBA) from Indian Institute of Management, Ahmadabad in 1982. He subsequently also obtained post graduate degree in Economics from Himachal Pradesh University and a post graduate Degree in Development Management from Glasgow Caledonian University, Glasgow, UK.

He is presently posted as Special Secretary in the Goods and Services Tax (GST) Council since its inception in September

2016. The Council is a constitutional body, which is mandated to make recommendations on all GST related policy issues. He has played a significant role in time bound launch and implementation in India through timely decisions in GST Council.

In addition, he is also heading Project Monitoring Group (PMG) in Prime Minister's Office, which aims at debottlenecking & expediting implementation of stalled & other mega projects.

During the last 32 years in the Government, he has held many challenging and important assignments in the Government of India, State Governments and UT administrations particularly in the areas of finance, power, commerce and industry.

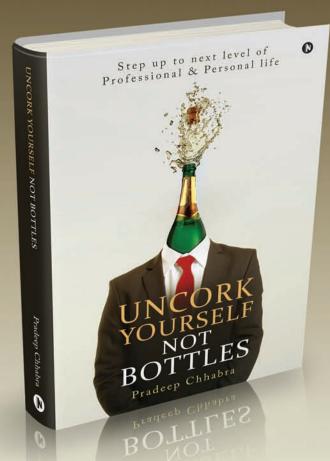
Some of the important positions held by him include Minister (Economic and Commercial) in Embassy of India, Tokyo; Head of Financial Intelligence Unit-India in the Ministry of Finance; Chief Electoral Officer of Delhi; Secretary to Lt. Governor and Secretary (Finance) in Andaman & Nicobar Administration and Deputy Secretary in Ministry of Commerce.

He is a regular speaker at various forums including academic institutions, apex chambers of commerce and trade bodies and also contributes for newspapers, journals and trade magazines.

He is a keen traveller, a passionate bridge player and an occasional golfer.

# UNCORK YOURSELF NOT BOTTLES

Pradeep Chhabra (DCE Alumni 1971-76 Mechanical)



Author has seen professional life from close quarters. Therefore, contents are all practical. No theory, no jargons, no long arguments in favour or against, just crisp, racy and straight to the point.

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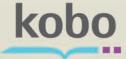


















## Distinguished Alumni



**Arvind Saxena** 

Shri Arvind Saxena studied Civil Engineering at the Delhi College of Engineering between 1971 and 1976 and did his M.Tech. in Systems & Management from the Indian Institute of Technology, New Delhi in 1978.

During the B.Sc. Civil Engineering program, he worked with two major civil engineering companies in New Delhi and during the M.Tech. program he worked with Hindustan Photo Films in Ootacamund, Tamil Nadu, Operations Research Group, a Sarabhai Group company in Baroda, Gujarat and, Engineering Projects (India) Ltd. in New Delhi, gaining experience in management and control of large and complex projects.

Selected for the Civil Services, he joined the Indian Postal Service in 1978, where he worked as Divisional Head of Postal Services at Bharatpur and Kota, covering the districts of Bharatpur, Dhoulpur, Kota, Jhalawar, and Baran, in Rajasthan. He was brought to Delhi in 1982 to take over as Officer on Special Duty, in-charge of arrangements for postal services for the IX Asian Games and the 7th Non-Aligned Summit Meet. After handling these assignments, he took over as Philately Officer at the Postal Directorate in New Delhi and subsequently as OSD for modernisation of the Stamps and Seals Factory in Aligarh. He was posted as Director, Mail Planning Operations at Bombay, looking after mail arrangements in the states of Maharashtra, Gujarat and Madhya Pradesh before being selected as Principal of the prestigious P&T Training Centre at Saharanpur, U.P. During this assignment he worked with the Committee of Experts for Excellence in Postal Services. He drafted papers for this Committee, which included reports on the largest ever consumer and employee survey for the postal services and inputs from experts on induction of technology and modern management practices in postal operations in India. He also underwent a program for trainers at the University of Manchester in U.K.

He joined the Research & Analysis Wing of the Cabinet Secretariat in 1988 and specialised in study of strategic developments in neighbouring countries. Served in five countries and the State of Jammu & Kashmir, he travelled extensively, attaining domain specialisation in developments relating to China, Pakistan and other regional countries as well as economic, military, international terrorism and S&T issues. He took over as Special Secretary in-charge of the Aviation Research Centre in 2014, where he continued till he demitted charge in May 2015.

Shri Arvind Saxena joined as Member, UPSC on May 08, 2015.

# Distinguished Alumni



Akhil Joshi
Director (Power) BHEL

Shri Akhil Joshi is a 1979 batch Mechanical engineering graduate from Delhi College of Engineering. He is currently a member of the Board of Directors of Bharat Heavy Electricals Limited (BHEL). BHEL is an integrated power plant equipment manufacturer and one of the largest engineering and manufacturing companies of its kind in India. As Director (Power), Shri Joshi is responsible for the Utility Power Business segment of BHEL, which contributes about 80% of BHEL's revenues. He is also the Chairman of Raichur Power Corporation Limited (RPCL), a Joint Venture Company of BHEL and Karnataka Power Corporation Ltd, which has developed and is operating a 2x800MW Supercritical Thermal Power Plant at Yeramarus, Raichur, Karnataka.

Mr Joshi joined BHEL in 1979 and has had a diverse and versatile experience, spanning over 38 years, working in various important segments of BHEL, including Power Sector, International Operations Division, Corporate Technology Management, Joint Ventures, Mergers & Acquisitions, and at a major manufacturing unit at Haridwar.

In his current role, Shri Joshi has led BHEL's aggressive strategy to secure 100% market share in the power sector and to ensure speedy implementation of projects. Though a soft-spoken person, he is widely known as a trustworthy professional who means business.

Earlier, during his extensive tenure at the International Operations Division, he played a key role in the strategic growth of company's overseas business in the highly competitive markets such as the Middle East, South East Asia, the CIS region, Mediterranean and Europe. He successfully pioneered BHEL's maiden entry into the utility segments of overseas markets of Iraq, Vietnam, Belarus, Bangladesh, Cyprus and Egypt. He played a pivotal role in negotiating and securing key EPC power projects in Iraq including obtaining approvals from the United Nations.

In his stint at the Corporate Technology Management group, he was responsible for overseeing company-wide technology acquisition and assimilation from world leaders, forging strategic alliances including formation & operation of joint ventures, Mergers & Acquisitions (M&As). He successfully implemented strategy to acquire state-of-the-art technologies from world leaders (OEMs) like General Electric, USA, Siemens, Germany, Alstom, France, Mitsubishi Heavy Industries, Japan etc. to enable the company maintain market leadership.

His extensive experience in manufacturing units, business sectors and corporate functions have enabled him to assess the prospective changes in the business environment and contribute effectively in formulation of strategies for the growth of the Company.

He is an avid sportsman with keen interest in cricket and badminton.

#### Distinguished Alumni



Mr. C V Raman
Senior Executive Director
Engineering Vertical
Maruti Suzuki India Limited

Mr. C V Raman is a graduate from Delhi College of Engineering with a BE in Mechanical Engineering. He started his career in 1982 with Escorts (Yamaha Division) Ltd and joined, Maruti Suzuki in 1984, in Vendor Development Department. He was responsible for Component & Supplier development and technical tie-ups/ joint ventures with auto component suppliers of Japan, Europe and US. He was posted to the Engineering Research & Development Division in 2001.

Mr. C V Raman currently heads the Engineering Vertical of Maruti Suzuki. Mr. Raman was instrumental in developing Maruti Suzuki Engineering into a R&D hub of Suzuki Motor Corporation, outside of Japan, designing & developing many successful new models. One of his key achievements was setting up the state of the art R&D Center at Rohtak.

Mr. C V Raman is the First Indian Chief Engineer for a `Design in India' New Model. The highly acclaimed Compact SUV, Vitara Brezza, was developed by Maruti Suzuki under the leadership of Mr. C V Raman. The Vitara Brezza has won 22 awards including the ICOTY award for Design & Performance.

Mr. C V Raman is also active in various professional bodies as:

- Vice President of ARAI Governing Council
- Chairman of SIAM Committee on Emission & Conservation
- Director in Bharat Seats Limited & Krishna Maruti Limited
- Member of Governing Council of National Institute of Design, Kurukshetra
- Chairman of SAE Northern India Section & SAE India Supra
- Member of Academic council of ARAI-VITU Academy
- Active member of various CII committees -CII Committee on Design, CII Committee on Technology, CII Institute of Quality

For his outstanding contribution to Automotive R&D & the Successful Vitara Brezza, Mr. Raman was awarded `Man of the Year' by Top Gear in 2017.

### Distinguished Alumni



Ms. Seema Gupta

Being amongst the first few women electrical engineers in the country to have contributed to development of Power Transmission Projects, Smt. Seema Gupta has been a pioneer in power sector. Ms. Gupta recently took over as Director, Operations, POWERGRID, and is responsible for strategic decision-making on operations and maintenance of transmission assets which plays a key role in achieving government's mission of One Nation, One Grid, One Price.

Ms. Gupta is a graduate from the Delhi College of Engineering (DCE) and a post graduate Management Diploma holder from IMT, Ghaziabad. After graduation from DCE in

1983, she joined NTPC, a premier organization in power sector. Subsequently, with the formation of POWERGRID, the only inter-state transmission utility, she joined it as a founder member in 1991 and since then has been contributing in its rise as one of the leading transmission utilities in the world. She has 34 years' experience in handling multi-disciplinary functions such as international business, system studies, corporate planning, commercial operations and ensuring efficient project management. Prior to being appointed as Director (Operations), she was serving as Regional Head of Northern Region – 1. She has also played a key role in coordinating with multilateral agencies like World Bank and ADB for funding of major transmission projects of the company. She believes in team work and encourages her subordinates to do the same. "Alone we can do so little; together we can do so much", she says.

Over the years, Ms. Gupta has earned a reputation as a turnaround leader and a "go-to" person. She believes in the quote, "Winners never quit, Quitters never win." A distinguished recipient of the Outstanding Women Manager Award from former Honourable President Sh. Pranab Mukherjee, she has been a source of encouragement for other women colleagues.

Ms. Gupta spends her spare time reading and is also fond of music. Being raised in a family of four sisters, she credits her parents for encouraging her to break stereotypes. She has tried to ingrain the same in her daughters, both professionals. She credits her husband as her inspiration and her strength.

#### Trail Blazer Award



Naveen Kukreja

Naveen Kukreja is the co-founder and CEO of Paisabazaar.com, India's largest online marketplace for lending products. He is also the CMO of the Policybazaar Group. Naveen graduated from the Delhi College of Engineering in 1999 with a degree in B.E., Electrical; after which he did his MBA from IIM Calcutta in Marketing and Strategy.

With extensive experience of 17 years in the financial services industry in India and the UK,

Naveen today is one of the most prominent faces from the Indian financial services industry, and the business leader of the country's fastest growing fintech.

After working in leadership roles in Citbank, Capital One Bank in London and Aviva Life Insurance, Naveen co-founded Paisabazaar.com under the Policybazaar Group in 2014. Under Naveen's strong leadership, Paisabazaar.com has grown consistently at 170% p.a. since inception. Today, it is the only independent online platform to disburse 1 billion dollars annualized in a financial year. Paisabazaar.com partners with over 75 banks and financial institutions and has offers more than 300 products to meet all personal finance needs of consumers coming to its platform.

Paisabazaar.com has been conferred with 'The Best Financial Services Brand 2017-18' & 'Best Digital Platform for Credit Cards 2017' by the Economic Times, India's most read financial daily.

As the CEO & Co-founder of the biggest lending platform in the country, Naveen's contributions have been widely recognized at prestigious industry platforms. He has most recently been felicitated by Business World with the '40 under 40' award – a recognition to India's top 40 leaders under the age of 40. Some of his other awards include 'Most digital savvy ecommerce Marketer of the year' by Internet and Mobile association of India and 'One of 25 most influential e-commerce Professionals' by CMO Asia.

Naveen is also an industry influencer and a key part of industry bodies and committees, which regularly advise and collaborate with ministries and regulators on critical policy related initiatives.



- MK Engg Company
- Vardhman Trading Company
- Durga Engineering Works
- Kamlesh Engineering Works
- Super System Engineers
- Technocrat



#### Trail Blazer Award



**Prashant Gupta** 

Prashant Gupta (PG) is an internet innovator with contribution to evolution of mobile-cloud information paradigm - started career with Motorola in Chicago introducing voice-based GPS navigation & RAZR maxx broadband phone - which later became part of Google and then at Microsoft, contributed to cloud computing incl. introduction of Linux in Windows Azure, acquisition of Revolution R for SQL & most

recently he introduced Al Network in Healthcare – it was selected among Fast Company's 8 Bold & Visionary Global Projects in 2017.

PG has spent more than a decade to apply mobile-cloud paradigm for social development. He co-founded Microsoft Accelerator for startups in May 2012 – a predecessor to Microsoft Ventures and partnered with Government in India to introduce *Kshmata* skilling program for Indian Army ('10) & applied *AI for Inclusive Development* to assist school drop outs, vision impairment and climate-smart farming ('15) – cited in Satya Nadella's Hit Refresh Book, Prime Minister Council on Policy and most recently, as ISB visiting faculty, he did a course on Digital Transformation in Public Governance for IAS & Govt. officers.

PG graduated with MS degree from Univ. of Florida, MBA in Marketing from Kellogg, Northwestern University and is a recipient of IEEE Larry K. Wilson Award, Lt. Governor Gold Medal at University of Delhi College of Engineering in 1998.

#### Trail Blazer Award



Madhur Aggarwal SVP and General Manager, SAP

Madhur Aggarwal, is a global executive at SAP SE, the world's third largest enterprise software company. SAP SE (Germany: XETRA) is headquartered in Walldorf, Germany. SAP software and services enable more than 378,000 customers in 180 countries to operate profitably, adapt continuously, and grow sustainably. Over the course of his tenure at SAP, Madhur has held multiple roles ranging from General Manager, SAP Digital to Global Head of Marketing Strategy. As GM, Madhur's responsibility included global P&L ownership in 200+

countries and territories for SAP's owned and 3rd party

commerce properties including Amazon. He oversaw teams ranging from Vancouver, Canada to Kiev, Ukraine (and everything inbetween.) Earlier at SAP, he was Global Head of Marketing Strategy and an executive member of CMO's leadership team. Prior to joining SAP, Madhur served in management and technology consulting roles at Booz & Co and Oracle Corporation.

Madhur holds MBA from Wharton School at University of Pennsylvania where he was a Joseph Wharton Scholar, Master's in Information Management from Arizona State University and an undergraduate degree in Mechanical Engineering with distinction from Delhi College of Engineering. He is an Advisory Board member at Columbia Business School Center for Brand Leadership and a frequent speaker at international conferences and business schools on digital business. In 2013, he was recognized as 40 under 40. Madhur is married with 2 boys and lives in Princeton, New Jersey.

Follow him on Twitter @aggarwalmadhur

Link to announcement of my role: https://news.sap.com/madhur-aggarwal-named-general-manager-of-sap-digital-commerce/

#### MERITORIOUS STUDENTS -2018

#### Branch Topper Among BTech Students till their 6<sup>th</sup> Semester



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# From the desk of Sh. Pramod Adlakha, Founding Gen. Secretary

Journey from infancy to a prodigious organisation......

The Alumni Association, Delhi College of Engineering (formerly Delhi Polytechnic), Kashmere Gate Delhi- 110006 was born in late sixties, under the leadership of Prof. Kartar Singh, Hon. Secretary. When I joined the Association in 1976, there were only 11 members. The membership fee was Rs.5/-(Annual) and Rs.30/- (Life member).

In 1987, an initiative was taken by Prof J.L. Pawha, the then Gen. Secretary with a strength of about 80 members on roll, to bring out a Directory of members of Alumni Association. A drive for membership yielded about 200 members and the first Directory was brought out in Dec. 1987.

On 4.12.1987, Prof Pawha handed over the reins of the Association to me to nurture the Association under the leadership of President Gr. Capt. Vimal jain (1956 M), Treasurer Dr. A.K. Saluja and other Executive Committee Members - Sh. S.L.N Prabhu (1961) N.K. Sethi (1971), A.K. Sakhuja (1978), V.K Mittal (1972), B.K. Bhatia (1974), M.K. Rampal (1970), Shammi Bhatia (1982), Rajeev Bajaj (1987) and Aseem Makhija (1985). My own office at Jhandelwalan became the postal and camp office. A room in the NCC block was offered by the Principal and a manual typewriter donated by the President. A humble beginning was made with a regular feature of an Annual Meet in the last Sunday of January every year and continued till 2005.

During the journey, three Alumni Directories were published: 1<sup>st</sup> edition 1987, 2<sup>nd</sup> edition 1996 and 3<sup>rd</sup> edition 2002. Besides, four newsletters: Poly Engg News 1988, 1989, 1990 and 1993 were brought out. The alumni directory and newsletters served a medium of Alumni connect with sharing of information such as – greetings on birthdays, condolences, lost & found, Alumni Speaks, felicitations, scholarships offered by alumni, alumni abroad, alumni featured in media, distinguished alumni, alumni from same family, Know Your Colleagues, recognitions received, additions/retired faculty. Special features included – 'Who is Where is' with a list of alumni employed with 75 PSUs, Government organisations and corporates. The data included 1,674 alumni life members enrolled till Dec 2002 with DOB, Residence & office addresses, designation, year & branch, emails

and phone numbers. The directory of 2002 (231 pages) also contained the names of all students, graduates and post graduates along with their branch and year from 1944 to 2002.

As Founder Members, we succeeded to get the Association registered with Registrar of Societies, Government of NCT Delhi on 19.05.1998 under the Societies Regn Act, XXI of 1860. (Registration No. S-33032). On 27<sup>th</sup> January 2005, the reins of the association were handed over by me to Sh. Karnal Singh and his team for further journey.

The association has come a long way from its humble beginnings. Wishing the association and the college family success in every endeavour in future.

Regards, **Pramod Adlakha** 

# Alumni Association, Delhi College of Engineering (The First Executive Council-1998)

#### Founding Members (Office Bearers)

President: Sh. R.K. Bhandari - 1966, ND (C); Former Member Engineering, DDA

Vice President: Sh. Karnal Singh – 1979 E; Chief, Enforcement Directorate

General Secretary: Sh. Pramod Adlakha – 1971 C; Adlakha Associates Pvt Ltd

Joint Secretary: Sh. N.K. Sethi – 1971 C; Former GM, ITPO

Treasurer: Prof. Dr. A.K. Saluja -1977 M (Msc); Delhi college of Engineering (Former)

#### <u>Members</u>

Sh. R.K. Gupta, Former Chief Engineer, DSIIDC

Sh. R.K. Kapoor, Proprietor, Topaz International Corporation

Sh. Ravi Mathur, Consultant

Sh. Anil Tayal, Indersoll Rand Pvt Ltd

Sh. Pankaj Sethi, GM, Kajaria Ceramics Ltd

Sh. S.B. Lal, Arbitrator & Former Chief Engineer, MTNL

Sh. V.D. Mahna, Former Prof. DCE & Former Director, UPSC

Sh. S.N. Sharma, Former Development Commissioner, SSI

Sh. Suresh Raheja, Raheja Continental & Raheja Developers

#### Article



#### **CLEAN ENERGY- India's Perspective**

S. M. Mahajan
Vice President
Alumni Association, Delhi College of Engineering
(DCE-DTU Alumni Association)

As per current report of IEA (International Energy Agency), the global energy related carbon dioxide emission increased 1.4% in 2017, as a result of global robust growth, mostly met by fossil fuels. Energy demand, worldwide, increased 2.1% in 2017. Fossil fuels meet 70% of growth of energy demand. China & India, together represent more than 40% of the increase in the growth

In India, the all India grid connected installed power capacity was 335GW at the end of Jan 2018, comprising of Coal/Thermal 194GW (58%), Gas/Thermal 25 GW (7.5%)- all from fossil fuels, Nuclear 6.8GW (2%), Hydro 45GW(13.5%), Renewal Energy Sources 63W (19%).

India has experienced over the last decade-a CAGR growth of 6% in electricity generation. At this trend, the generation will be 8600 TWW by 2050, which is 8 times the generation in 2016-17. It is estimated that by middle of the century, India's per capital energy demand will be about 5000 KWH, as against present of about 1100 KWH. To meet this, India has to enhance its generation capacity from present about 1500 TWH to about 8600 TWH.

If India is to achieve the energy generation targets and COPP, Paris committed levels of emissions; it has to support all low carbon sources that is renewable and nuclear.

India's Intended Nationally Determined Contribution (INDC) is to reduce emission intensity of its GDP by 33 to 35% by 2030 from 2005 level. Further it is committed to achieve 40%cumulative electric power installed capacity from non-fossil fuel based energy sources by 2030.

Towards achieving these targets, India has set ambitious renewal energy target of 175 GW by 2022, comprising of 100 GW of solar, 60 GW of wind, 10 GW of Bio-energy and 5 GW of small hydro.

India has to look for & utilize all forms of energy to achieve this, i.e. Thermal, Hydro, Nuclear & Renewal and continue to develop technology for their better utilization. However, commitments of containing emission levels will put pressures on much greater

utilization on non fossil fuel energy sources. It is expected that from health, safety & environmental considerations renewal & nuclear energy will overtake energy from fossil fuels. These will become the base load electricity providers.

Output from Nuclear Plants, worldwide, increased by 26 TWh in 2017 due to new nuclear capacity additions. Nuclear power accounts for 10% of global power production in 2017- up by 3% compared to 2016. Asia is the focus of new nuclear plants build-ups (India, Bangladesh, Saudi Arabia, Turkey etc). Countries in SE Asia can be part of a global "Clean Energy" future by committing to use nuclear energy to help reduce pollution, improve air quality and deliver better public health

The success of plans of reducing emission levels will depend on increasing dependence of nuclear energy in base load. India has presently 6.8 GW of power generation capacity from nuclear power plants. As against the official projections of about 60 GW, this is likely to increase to about 35 GW by 2030, as per latest indication with help of indigenous PHWRs (Pressurized Heavy Water Reactors) and foreign LWRS (Light Water Reactors). All this will decrease the dependence on coal for power generation producing clean energy.

Solar Power tariffs in completive bidding have fallen to around Rs.2.5/unit, which are at levels lower than grid power. However, it is intermittent power and to be self sustaining; it must go in a hybrid mode with wind power or provide for storage. For wind power the current tariffs stands between Rs.2.47 to 2.65/unit. Compared to these low tariffs of renewable energy source, the tariffs for currently operating nuclear power varies from about Rs.3.5/unit from PHWR Rawatbhata NPP to about Rs.4.2/Unit from Russia VVER at KudanKullam. Efforts are on to peg the tariff levels of planned foreign LWRs to sub Rs 6/unit

India's electricity needs are large & we need to exploit all sources of energy while marinating the commitment for achieving Green energy targets. Technology will play an increasingly crucial role in bringing these at affordable tariff levels. Recent past has seen a global energy transition, significantly affecting modes of electricity and emergence of new resources and technology dominators. This trend needs to continue & speeded up to move towards "Clean Energy"

This contribution is by the Vice President of DCE-DTU AA- Sh. SM Mahajan, a former Exec. Dir. of BHEL. Currently, he is an Adviser in Power Sector and a Member Board of India Energy Forum, Vice President of Asian Welding Federation and a member of National Working Group of MEITY, GOI

#### Article



#### THE HOBBY OF COIN COLLECTING

Ms. Renu Gupta G. C. Member

Alumni Association, Delhi College of Engineering (DCE-DTU Alumni Association)

Coin collecting is one of the oldest hobbies on record. It is an interesting hobby. Most collectors start as children, some are handed over their collections by their parents or grand-parents and discover the joy of collecting at an early age, some come to collecting later in life, triggered by an interesting coin issued for an event or by an interesting coin issue with the prospect of potential value increase. Whatever the motivation or situation, the field of coin collecting is so wide that it offers inspiration for everyone.

There are two types of coins.

#### **DEFINITIVE COINS**

Definitive coins are for general circulation. Definitive coins are those common coins which we normally come across in markets and which we actually spend for buying things. However, as a common man we hardly pay attention to coins with respect to their striking, finishing, shining and many a times their legends and motifs.

#### **COMMEMORATIVE COINS**

Commemorative coins are usually issued to celebrate some special occasion or to mark a special event. They also have been issued as a mark of respect towards some distinguished individuals or monument.

#### COINS OF INDEPENDENT INDIA

India won its independence on 15<sup>th</sup> August, 1947. The Monetary System remained unchanged during the transition period 1947-1950, up to the establishment of the Indian Republic at one Rupee consisting of 192 pies.

#### 1 Rupee = 16 Annas 1 Anna = 4 Pice 1 Pice = 3 Pies

On 26 January 1950, India became a sovereign republic. India brought out its distinctive coins on 15th August, 1950. The British King's portrait was replaced by the Lion Capital of the Ashoka Pillar. The national symbol of India - The Ashoka Lion Capital of Sarnath comprises four lions, standing back to back, mounted on a cylindrical abacus. The abacus features the sculptures of an elephant, a galloping horse, a bull and a lion, separated by intervening 24-spoked Dharma wheels over an inverted bell-shaped lotus flower. A corn sheaf replaced the Tiger on the one rupee coin. In some ways this symbolised a shift in focus to progress and prosperity.

In 1957, India shifted to the decimal system. The rupee was now divided into 100 'paisa' instead of 16 annas or 64 pice. The coins minted between 1957 and 1964 have the legend "Naya Paisa" ("new" paisa). The denominations in circulation were 1, 2, 3, 5, 10, 20, 25, 50 (naya) paisa and one rupee which remained as the same pre-decimal value.

The word "naya" was dropped in 1964. In this year a new denomination the 3 paisa was introduced and in 1968 a 20 paisa coin was minted. Both these coins however did not gain much popularity. The 1, 2 and 3 paisa coins were phased out gradually in the 1970s. In 1982 a new coin, 2 rupee, was introduced as an experiment to replace 2 rupee notes. The 2 rupee coin was not minted again till 1990, after which it is now minted every year.

Stainless steel coinage of 10, 25 and 50 paisa was introduced in 1988. In 1992 stainless steel one rupee coin was minted. This coin was smaller and lighter than the older rupee. In 1992, 5 rupee Cupronickel coin was introduced. In 2005, 10 rupee coin was minted for the first time.

Effective from 30 June 2011, all coins in denominations of 25 paisa and below were officially demonetised.

Commemorative coins of India are usually issued to celebrate some special occasion or to mark a special event. They also have been issued as a mark of respect towards some distinguished individuals or monument. The first modern commemorative coin was issued in 1964 depicting India's first Prime Minister Jawaharlal Nehru. It was issued to commemorate his birth anniversary. Following that, many more commemorative coins have been issued. Since 1964 commemorative coins in all the denominations have been issued except 1, 2, and 3 paisa coins, on different themes.

From 1964 to march 2018, a total of 160 Commemorative Coins of India are minted.

#### METALS USED TO MAKE COINS IN INDIA

Government of India has been using various metals from time to time depending on the value of metals. Coins that are intended for circulation have some special requirements based on the conditions they will encounter. Coins must have excellent wear resistance and anti-corrosion properties. When minting coins, especially low denomination coins, there is a risk that the value of metal within a coin is greater than the face value. This leads to the possibility of smelters taking coins and melting them down for the scrap value of the metal. This problem has led to nearly the end of use for a common base metal alloy for everyday coinage in the 20th century, called cupronickel, with varying proportions of copper and nickel, most commonly 75% Cu 25% Ni. Cupronickel has a silver color, is hard wearing and has excellent striking properties, essential for the design of the coin to be pressed accurately and quickly during manufacture. In the 21st century with the prices of both copper and nickel rising, it has become more common to experiment with various alloys of steel, often stainless steel.

#### **DOMESTIC MINT MARKS**

Kolkata (Alipore) - either no mint mark beneath the date of coin or a C at 6'o clock position in British India coins

Mumbai - diamond mint mark under the date of the coin

Hyderabad (Saifabad, Cherlapally) - split diamond or a dot in diamond or five pointed star under the date of coin

Noida (U.P.) - a small or thick dot under the date of the Coin

Because of the increasing demand for coins, the Indian government was forced to mint coins in foreign countries at various points in the country's history.

#### **INTERESTING SHAPE, SIZE & WEIGHT OF INDIAN COINS**

The Indian Coins used a variety of shapes viz Circular, Scalloped, Square, Hexagon and Hendecagon. The Hendecagon was used only on one coinage of 2 rupees.







**Scalloped** 



**Square** 



Hexagon



Hendecagon

By 1990 all the coinage had converted into Circular shape except for the Two rupee coins. The Two rupee coins got converted into circular shape with the introduction of stainless steel design in 2004. Circular is the most popular shape. Except for 2 paise and 5 paise all other denominations were at some point in time available in the circular shape. The smallest diameter of 16 mm is shared between 1 Naya Paise / Paise from 1957 to 1964 and 10 Paise Stainless Steel introduced from 1988 to 1998. The largest diameter of 28 mm in definitive coins is shared between big one rupee coins minted from 1950 to 1982 and two rupee coins minted in the year 1990.

In the circulating Commemoratives the largest diameter of 31 mm goes to the five rupees coins. These were minted to commemorate the Death of Indira Gandhi in 1984 and Birth Centenary of Nehru in 1989. In terms of weight, the lightest coin of India is one paise aluminum coin minted from 1965-1972 of 0.75 gm. The heaviest coin in definitive coins of India is five rupee coin minted from 1992 to 2004 of of 9 gm. In commemorative coins the heaviest coins are the five rupee coin minted to commemorate the Death of Indira Gandhi in 1984 and then Birth Centenary of Nehru in 1989 of 12.5 gm. The 3 Paise is the only coin that was minted in one design.

Contributed by Smt. Renu Gupta, '81 DCE





"If you intend to do something, just write it down. That's the first step! That way, you will always remain focussed and won't get distracted."

- Durga D. Agarwal,

Founder, President and CEO of Piping Tech

"The outcome should not deter an individual from speaking the truth. If one is truthful, the world will become a more transparent and a better place to live in."

- Karnal Singh,

Chief of Enforcement Directorate.





"Opportunity decides how low you will go. Adversity, how high."

- Vijay Shekhar Sharma, Founder and CEO of Paytm.

"In case you aren't world class, make sure at least you are educated."

- R.S. Bhola,

2 times Olympic Champion in Hockey.





"If one is hard working, then luck shall automatically shine on such individual."

- Arun Goyal, Additional Secretary in GST Council.

















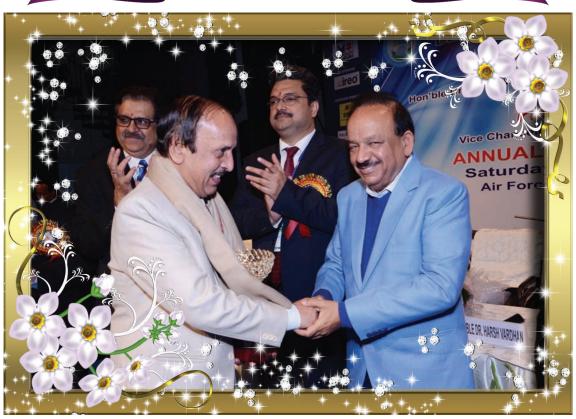
























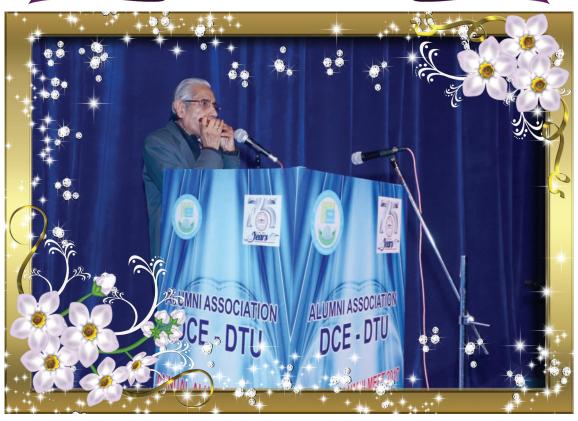












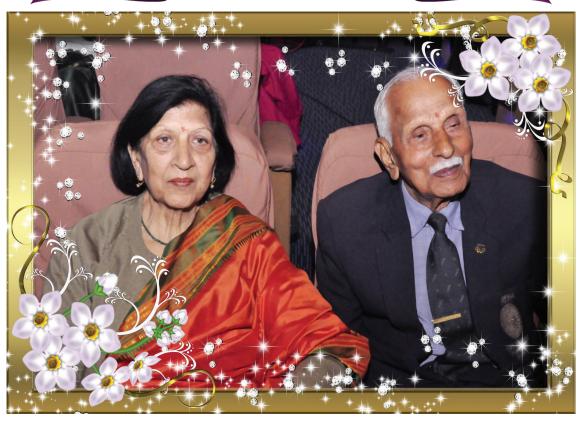


















































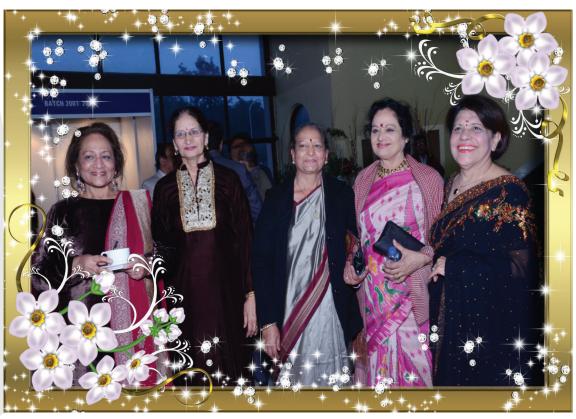














































































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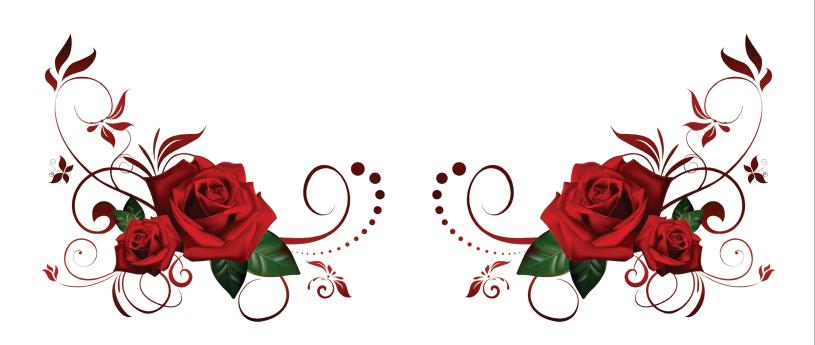


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