

## Camp Schedule

<b>Reporting Time on Inaugural Ceremony :</b>	24th December 2023 at 8.30 a.m-9.30 a.m, at D K Convention Centre's Main Auditorium, Itanagar, Arunachal Pradesh
<b>Inaugural Ceremony :</b>	24 <sup>th</sup> December 2023 at 10 a.m. at D K Convention Centre's Main Auditorium, Itanagar, Arunachal Pradesh.
<b>Training Subject :</b>	Aerobics, Yoga, Drill, Music, Dance, Recitation and Audio-Drama, First- Aid, Technical Education, Self Defence, Games, Career Guidance, etc.
<b>Faculties :</b>	Prof. Alok K. Banerjee, Prof. (Dr.) Drubajyoti Chattopadhyay, Dr. Ratna Chattopadhyay, Prof. (Dr.) D. D. Patra, VC; Swami Mahakalanandaji, Asst. Secretary, RKM Hospital, Prof. Koushik Ghosh, Prof. Apurba Ratan Ghosh, Prof. Pradip Limnga, Dr. Ravi Ranjan Kumar, Dr. Sayan Bayan, Dr. Nikhil K Mahnot, Prof. SupamTangjung, Prof. Sailajananda, Dr. Akash Kachari, Prof. Ashim Debnath, Dr. Tirtha Pratim Das, Dr. Vinod Kumar, Prof. D. Walia, Scientist Yash Dhingra, Director D. R. L, NCB Officers, Smt. Archana Sarkar, Shri Mihir Bhattacharya, Shri Anupam Chattopadhyay, Shri Soumen Ghosh, Shri Shantanu Chandra, Shri Ajay Mondal, Ms. Moumita Sen, Shri Akash Das, Indian Army, Indian Airforce, Indian Navy and so on.
<b>Training Period :</b>	09:30 a.m to 4:30 p.m
<b>Training Schedule :</b>	25th to 31st December 2023 09:30 a.m. Assembly, 10 a.m. - 11:00 a.m. Aerobics / Yoga/ Self Defence / Drill 11:00 a.m. to 1:00 p.m. National Seminars 01:00 p.m. to 02:00 p.m. Lunch Break 02 p.m. to 04:15 p.m. Music / Dance / Recitation / Audio Drama / Games 04:30 p.m. day off

## National Seminars

24 <sup>th</sup> December 2023	: A Successful Mission of Chandrayan -3 And Expediting New Space In India: Current Scenario, Challenges & Way Forward, D. K. Convention Centre, Arunachal Pradesh
25 <sup>th</sup> December 2023	: Vikshit Yuva Vikshit Bharat : Science Awareness among the Students & Youth of North East India, Rajiv Gandhi University
26 <sup>th</sup> December 2023	: Cultural Heritage of India & its Tradition, Indian Space Industry Moving Towards Atmanirbhar Bharat : Pluralistic Nationalism : Disaster Management
27 <sup>th</sup> December 2023	: Cyber Security: Threats, Trends & Countermeasures : "Biotechnology For Better Life" Innovations and Advances Towards Sustainable Development : Science For a New India : Artificial Intelligence
28 <sup>th</sup> December 2023	: Design your dreams with Indian Defence : Current Trends in Biotechnology and Its Application in Science And Technology : India Science, Technology & Innovations : Role of Youth in Technology Development to Archive Atmanibharta : Anti-Drug Applications
29 <sup>th</sup> December 2023	: Vigyan Se Atmanirbhar Bharat : National Integration Throughout Door Education & Sports : Outreach And Awareness in Ministry of Earth Sciences : Vibrant Villages
30 <sup>th</sup> December 2023	: Innovation & Science : Atmospheric, Climate Science and Services : Earth Quake
31 <sup>st</sup> December 2023	: Valedictory Ceremony at 02 p.m. : Demonstration, Prize & Award Distribution And Cultural Programs

## Previous National Integration and Youth Leadership Camps

2022 Jawaharlal Nehru Rajkeeya Mahavidyalaya, Port Blair, Andaman & Nicobar Island.  
2021 Assam Rifles Public School, Agartala, Tripura.  
2020 Atomic Energy Central School, Turamdih, Jamshedpur, Jharkhand  
2019 Atomic Energy Central School Kudankulam, Anuvijay Township, Tamilnadu  
2018 Atomic Energy Central School, Kakrapar, KAPS Township, Anumala, Tapi, Gujarat  
2017 Army Public School Narangi, Guwahati, Assam  
2016 Assam Rifles Public School, Laitkor, Shillong, Meghalaya  
2015 Navy Children School, Dabolim, Goa  
2014 Kendriya Vidyalaya No. 1 and 3, Jaipur, Rajasthan  
2013 Hindustan Aeronautics Ltd. Gnanajyoti School, Bangalore, Karnataka  
2012 Kendriya Vidyalaya-Ordnance Factory Ambajhari, Nagpur, Maharashtra  
2011 Savera Basera Campus, Ordnance Factory Khamaria, Jabalpur, M.P.  
2010 Hindustan Aeronautics Ltd. School Lucknow, Uttar Pradesh  
2009 Kendriya Vidyalaya Ordnance Factory Nalanda, Rajgir, Bihar  
2008 Naval Maritime Academy and Ship Wright School, Visakhapatnam, Andhra Pradesh  
2007 Kendriya Vidyalaya No.1, Bhubaneswar, Orissa  
2006 Ramakrishna Mission Lady Indra Singh School, Indranagar, Jamshedpur, Jharkhand  
2005 St. Mary Goretti Girls' High School, Asansol, West Bengal  
2004 NTPC High School, Pubarun, Malda, West Bengal  
2003 Debendralal Jagabandhu Siksha Sadan, Digha, West Bengal  
2002 KV-CMERI Project High School, Durgapur, West Bengal  
2001 KV-IOCL Project High School, Haldia, West Bengal  
2000 CA High School, Salt Lake, Kolkata, West Bengal  
1999 Kendriya Vidyalaya -Fort William, Kolkata, West Bengal  
1998 Kendriya Vidyalaya -Fort William, Kolkata, West Bengal



# NATIONAL INTEGRATION And YOUTH LEADERSHIP CAMP

Theme : "Viksit Yuva - Viksit Bharat"

24th December to 31st December 2023  
D K Convention Centre, RGU, DNGC, DPS,  
Itanagar, Arunachal Pradesh

In Cooperation with

Government of Arunachal Pradesh  
North Eastern Council, Government of India  
Rajiv Gandhi University  
Dera Natung Government College  
Delhi Public School

Organised by

**Central Calcutta  
Science & Culture Organisation for Youth**

[Registered Under West Bengal Societies Registration Act. XXVI of 1961,  
Registered Under Section 12AB, 80G of the Income Tax Act, 1961,  
Registered Under NITI Aayog (NGO's Darpan), CSR, Govt. of India]

'Ananda Bhavan', 10 D, Ananda Palit Road, Entally, Kolkata - 700 014

'Spandan', 11/2, S. N. Banerjee Road, BKP, Kolkata - 700 120

Telephone : 033 71481515, Fax : 033 2592 5281, Mobile : 8910399438 / 9540954377

E-mail: nic.98@rediffmail.com, ccscoy@rediffmail.com,

Visit us : www.ccscoy.in

## AIMS & OBJECTIVES OF THE ORGANISATION

1. To impart awareness in prevailing Science & Technology, Electronics & Information Technology, Commerce & Industry & other sectors.
2. To rouse awareness about the Tourism & Cultural Heritage of our Country.
3. To foster the pursuit of Education in different fields.
4. To promote all developmental projects in different Sectors of the Central and State Government.
5. To arrange for lectures, workshops, seminars, exhibitions etc. at National Level relating to Textile, Agriculture, Science & Technology, Defence, Culture, Tourism, Health, Finance, Environment & Forest and other subjects and also publish papers, bulletins, magazines etc.
6. To offer trainings on Skill & Self-development.
7. To lend a helping hand to backward, meritorious students and the aged, sick and helpless people.
8. To observe the birthdays of the great personalities and popularize their ideals among the masses and also observe the Republic and Independence Day to generate the spirit of nationalism.



## Central Calcutta Science & Culture Organisation For Youth

Chief Advisor	: Professor Tathagata Roy, Former Governor, Tripura, Meghalaya & Arunachal Pradesh
Advisor	: Dr. Jayanta Ray, Hon'ble Member of Parliament, Lok Sabha Shri Jagannath Sarkar, Hon'ble Member of Parliament, Lok Sabha Shri Pradeep Gandhi, Former Member of Parliament, Rajya Sabha Shri Deba Prasad Ray, Former Member of Parliament, Rajya Sabha Shrimat Swami Atmapriyananda ji Maharaj, Pro Chancellor, RKM University Professor Saket Kushwaha, Vice Chancellor, Rajiv Gandhi University, Arunachal Pradesh Professor Basudeb Barman, Former Vice Chancellor, Kalyani University Professor Pinakeswar Mahanta, Director, National Institute of Technology, Meghalaya Professor R. P. Sharma, Director, National Institute of Technology, Arunachal Pradesh Professor M. Muralidhar, Director, NERIST, Arunachal Pradesh Dr. Joram Begi, Former Director, H & T Education, Government of Arunachal Pradesh Mr. Tamme Phassang, Hon'ble, Mayor, Itanagar Municipal Corporation Shri Takam Pario, Founder Chairman, DPS, Itanagar, Arunachal Pradesh and so on.
Chief Patron- National Integration Camp	: Professor Saugata Roy, Hon'ble Member of Parliament, Lok Sabha
Chief Patron, Organisation	: Shri Amit Kiran Deb, IAS (Retd.) (Former Chief Secretary, Govt. of West Bengal)
Patron	: Shri Amjad Tak, IAS, Commissioner, Education, Govt. of Arunachal Pradesh Shri Sonam Chombay, IRS, Commissioner-Cum-Secretary to HCM, Arunachal Pradesh Shri Samar Ghosh, IAS (Retd.), Former Chief Secretary of West Bengal Shri G. K. Pillai, IAS (Retd.), Former Home Secretary, Govt. of India Shri Sunil Mitra, IAS (Retd.), Former Revenue Secretary, Govt. of India and so on.
President, National Integration Camp	: Professor (Dr.) Dhrubajyoti Chattopadhyay Vice Chancellor, Sister Nivedita University, Kolkata
President, Organisation	: Professor. Alok K. Banerjee Former Vice Chancellor, University of Kalyani
Vice President	: Professor (Dr.) D. D. Patra, Former Chancellor, BCKV and Shri Kajal Sur
Chief General Secretary	: Shri Nemai Chandra Pramanik
General Secretary and Treasurer	: Smt. Rita Paul
Chief Coordinator	: Dr. Ajoy Kr. Mishra, SLO, Arunachal Pradesh
Chief Coordinator, Seminars	: Dr. M. Q. Khan, Principal, DNGC Arunachal Pradesh
Co-Ordinatr, D K Convention Centre	: Shri. Prakash Choudhury
Co-Ordinator, National Integration Camp	: Shri Sanjoy Roy, Rajiv Gandhi University
Nodal Officer, RGU, NIC	: Professor Sumpam Tangjang, Dean, Rajiv Gandhi University
Co-Ordinator, DNGC	: Dr. Chillo Lima, Mr. Botem Moyong, Mr. Goke Riji (Asst. Professors)
Co-Ordinator, Delhi Public School	: Mr. Henry Dsouza, Principal
Addl. General Secretary	: Shri Alok Kumar Ghosh
Asst. General Secretary	: Shri Soumen Konar
Secretary, Science	: Dr. Suman Bhusan Chakraborty, CU
Secretary, Culture	: Shri Anupam Chattopadhyay
Asst. Secretary Culture	: Smt. Amita Ghosh Roy
Secretary, Training	: Shri Rajib De
Asst. Secretary, Training	: Shri Shamik Mukherjee
Asst. Secretary Training & Seminars	: Shri Ashish Chatterjee
Executive Member	: Smt. Mou Pramanik, Smt. Mohuya Saha, and Dr. Archisman Pramanik
Scientific Executives	: Prof. Koushik Ghosh, Prof. Apurba Ratan Ghosh, Prof. Arunava Majumder, Prof. Aniruddha Mukhopadhyay, Prof. Asis Majumder, Prof. K. C. Dora, Dr. Archana Sinha, Dr. B. K. Mahapatra, Dr. Paromita Chakraborty, Dr. Animesh Kundu, Dr. Abhrajyoti Ghosh and so on.
Camp Executives	: CA Surajit Sengupta, Shri Soumen Ghosh, Smt. Archana Sarkar, Shri Amit Adhikary, Ms. Nidhi Agarwal, Smt. Anasri Dey Barik, Smt. Usashi Sengupta, Ms. Angana Das and so on.
Official	: Shri Bidyut Paul, Shri Prasenjit Ghosh, Shri Swapan Das Mondal, Shri Avijit Ghosh, Shri Anirban Acharya, Shri Tanmoy Shaw, Shri. Joydeep Mukherjee, Shri. Biplab Paul, Shri Prasad Mukherjee, Shri Sumit Adhikary and Ms. Komal Kurmi and so on.

**Lt Gen Kaiwalya Trivikram Parnaik, PVSM, UYSM, YSM (Retd), Hon'ble Governor of Arunachal Pradesh, inaugurated the 26<sup>th</sup> National Integration & Youth Leadership Camp and was present as the 'Chief Guest' of the great programme on 24<sup>th</sup> December 2023 at D K Convention Centre, Itanagar, Arunachal Pradesh. Some special moments of the Inaugural Ceremony of this grand National Integration Camp.**





SHRI NEMAI CHANDRA PRAMANIK, CHIEF GENERAL SECRETARY & SMT. RITA PAUL, GENERAL SECRETARY, CCSCYO MET WITH SHRI PEMA KHANDU, HON'BLE CHIEF MINISTER, GOVERNMENT OF ARUNACHAL PRADESH REGARDING THE INVITATION IN THE 26<sup>TH</sup> NATIONAL INTEGRATION & YOUTH LEADERSHIP CAMP, ITANAGAR, ARUNACHAL PRADESH AND HE WAS ALSO FELICITATED BY OUR CHIEF GENERAL SECRETARY & GENRAL SECRETARY ON 4<sup>TH</sup> MAY 2023 AT HIS OFFICE, ITANAGAR, ARUNACHAL PRADESH.



सत्यमेव जयते

प्रधान मंत्री  
Prime Minister

### MESSAGE

It is with immense joy and optimism that I extend my heartiest greetings to all the vibrant and enthusiastic youth gathered at the 26<sup>th</sup> National Integration and Youth Leadership Camp in the picturesque landscapes of Arunachal Pradesh.

Organising the National Integration Youth Leadership Camp in Arunachal Pradesh takes on a heightened significance. Beyond its breathtaking natural beauty, this region embodies the indomitable spirit of patriotism driven by an unwavering commitment to the nation.

Focussed on the theme of "Viksit Bharat Yuba Bharat," this discussion is particularly important, as it aligns seamlessly with our nation's commitment to inclusivity, leaving no one behind in the journey towards development. Today, remote areas are no longer relegated to being the 'last' in priority, but have emerged as the 'first' in our priority.


In a world grappling with challenges, India stands as one of the youngest nations demographically. This demographic advantage positions our youth as the torchbearers of our nation's progress. As we set our sights on the ambitious goal of becoming a developed nation by 2047, it is imperative to nurture and empower our youth. Their dynamism, innovation, and passion are the driving forces that will propel India to new heights on the global stage.

It is heartening to witness youth forums making the dream of a developed nation an inalienable part of our national discourse. We must navigate the path of progress together, ensuring the active participation of people. It is only through 'Sabka Prayas' that grand resolutions will get transformed into fulfilled vision.

The National Integration Youth Leadership Camp stands as a vibrant platform, inviting young leaders to not only transcend barriers, but to construct bridges of understanding in the spirit of 'Ek Bharat Shreshtha Bharat'. Together, let us embrace the richness of our diversity, as well as the innate unity within our diversity.

The initiative by Central Calcutta Science & Culture Organisation for Youth to organise the Youth Leadership Camp is laudable.

Jai Hind!

  
(Narendra Modi)

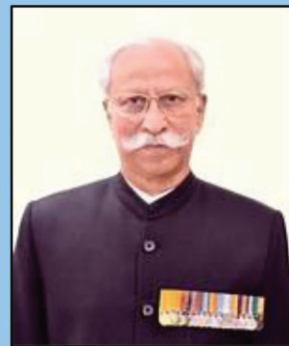
New Delhi

पौष 01, शक संवत् 1945

22<sup>nd</sup> December, 2023



## Message & Blessings from



**Lt Gen K. T. Parnaik**

PVSM, UYSM, YSM

**Hon'ble Governor of Arunachal Pradesh**

Very pleased to participate in the National Integration Seminar at Arunachal Pradesh. The organisers deserve to be praised for the initiative and the elaborate programme they have charted. I am sure this programme will motivate the students in their transformation to a 'Viksit Yuva' who will pioneer the efforts to make our country "Viksit Bharat". My best wishes to All

*[Signature]*  
Lt Gen







**CHIEF MINISTER  
ARUNACHAL PRADESH**

**MESSAGE**

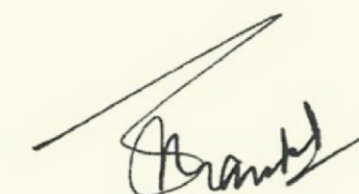
It is indeed a rare privilege for the youths of Arunachal Pradesh that the 26th National Integration and Youth Leadership Camp is being held at Itanagar – DK Convention Centre, Delhi Public School, Dera Natung Government College – and at Rajiv Gandhi University, Rono Hills, Doimukh from 24<sup>th</sup> to 31<sup>st</sup> December, 2023.

I firmly believe that youths play a critical role in fostering creative and innovative solutions to current challenges, and in driving positive social change. Events such as this, will equip our youths with the leadership qualities based on the five C's - competence, confidence, connection, compassion and caring, and character. These are important life tools and skills that any growing and developing youth need in order to be able to relate with his juniors, peers as well as seniors. They enable the individual to grow into a respectable citizen capable of making wise decisions that will positively influence not only the self but also those around.

Such camps also foster national integration by bringing together youths of different tribes and states, allowing them to know each other and respect the diversity of this great country.

Organizer of this event, the Central Calcutta Science and Culture Organization for Youth, has been doing yeomen service in bringing together the youths of India and imbibing in them the spirit of national integration and brotherhood.

I wish the weeklong National Integration and Youth Leadership Camp an overwhelming success.

  
(Pema Khandu)



डा. राजकुमार रंजन सिंह  
Dr. RAJKUMAR RANJAN SINGH  
डॉ. राजकुमार रंजन सिंह



राज्य मंत्री  
विदेश और शिक्षा मंत्रालय  
भारत सरकार  
MINISTER OF STATE  
FOR EXTERNAL AFFAIRS  
AND EDUCATION  
GOVERNMENT OF INDIA

(MESSAGE)

We are here together to celebrate the auspicious moments of "26<sup>th</sup> National Integration and Youth Leadership Camp" holding in D.K.Convention Centre, Dera Natung Govt College, Delhi Public School and Rajiv Gandhi University. With the help and support of Govt of Arunachal Pradesh and North East Council, this seven days camp is already made instances in Arunachal Pradesh which will power the real power of someone's fate.

Firstly, I congratulate all the students present here for their participation in the 26<sup>th</sup> National Integration and Youth Leadership Camp in Itanagar, Arunachal Pradesh. I hope this camp will absolutely enlighten your daily norms and motivate yourself for a greater future ahead. Not only by giving training on dance drama, yoga and self-defence which can build a persons' health as well as body. The camp will also provide the seminars on various topics like popularization of science, Indian Space Industry which is moving towards **Atmanirbhar Bharat**.

I would like to mention the name Central Calcutta Science and Culture, the organisation for whom we are here today and willing to unite for upcoming days. This West Bengal based organisation is continually arranging seminars, workshops, debate competitions for past 26 years. Already in past years they had organised their National Camp in around 15 states of India and this year Arunachal Pradesh and the seven sisters got the change to recognise their volunteer work for these camping days.

I wish a great success to this camp and also give my greetings to the organisation.

(Dr. Rajkumar Ranjan Singh)



Office Address: Room No. 131-C, Shastri Bhawan, New Delhi-110 001  
Tel. No. (O) +91-11-23070739, Email ID - ranjan.rk@sansad.nic.in, mosedu-rs@gov.in  
Residence Address : 59, Lodhi Estate, New Delhi-110003  
Tel. No. (R) : +91-11-21421137







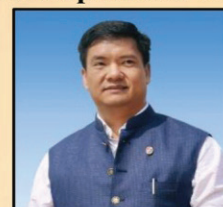
## 26<sup>TH</sup> NATIONAL INTEGRATION & YOUTH LEADERSHIP CAMP

THEME: "Viksit Yuva Viksit Bharat"

24<sup>th</sup> December to 31<sup>st</sup> December 2023

D.K. Convention Centre, Rajiv Gandhi University,  
Dera Natung Government College, Delhi Public School

In cooperation with



GOVERNMENT OF ARUNACHAL PRADESH

NEC, RGU, DNGC & DPS

Organized by

**CENTRAL CALCUTTA  
SCIENCE AND CULTURE ORGANISATION FOR YOUTH**

www.ccscoy.co.in

**INAUGURAL CEREMONY**

**10 A.M.; 24<sup>TH</sup> DECEMBER 2023; D. K. CONVENTION CENTRE, ITANAGAR**

**The auspicious occasion will be graced by the benign presence of the**



**CHIEF GUEST**

**Lt Gen Kaiwalya Trivikram Parnaik**

PVSM, UYSM, YSM(Retd.)

**Hon'ble Governor, Govt. of Arunachal Pradesh**

**GUEST OF HONOUR**



**Professor Saket Kushwaha**  
Vice-Chancellor  
Rajiv Gandhi University



**Dr. M.Q. Khan**  
Principal  
Dera Natung Government College



**Shri Takam Pario**  
Founder Chairman  
Delhi Public School



**Nemai Chandra Pramanik**  
Chief General Secretary  
CCSCOY

Professor (Dr.) Dhrubajyoti Chattopadhyay, Vice-Chancellor, Sister Nivedita University, Kolkata & President, National Integration Camp will preside over the programme.

**All are cordially invited at the Inaugural Ceremony & Entire Programme.  
Your valuable presence will be a source of great joy and encouragement for**

**Rita Paul**  
General Secretary  
CCSCOY

**Professor Alok K Banerjee**  
Former Vice Chancellor, University of Kalyani  
President, CCSCOY



**Tathagata Roy** B.E., LL.B., F.I.E., D.Engg.  
Former Governor, Tripura, Meghalaya & Arunachal Pradesh

P-70, Lake Road  
Kolkata - 700 029, India  
E-mail : tathagata2@gmail.com

Former President, Bharatiya Janata Party, West Bengal  
Former Member BJP National Executive  
Former Professor and Founder-Head, Department of Construction  
Engineering, Jadavpur University, Kolkata  
Formerly of the Indian Railway Service of Engineers

### Message



As the Chief Advisor to the 'Central Calcutta Science & Culture Organisation for Youth', I am glad to know that they are going to organize the "26<sup>TH</sup> NATIONAL INTEGRATION & YOUTH LEADERSHIP CAMP" on the theme of " VIKSIT YUVA - VIKSIT BHARAT " on and from 24<sup>th</sup> to 31<sup>st</sup> December, 2023 at Delhi Public School, Dera Natung Government College & Rajiv Gandhi University, Itanagar, Arunachal Pradesh.

Organizing such National Programmes are a part of their annual schedule to motivate the younger generation towards more positive and fruitful academic, social, economic, and cultural attainments and also to inform them about various aspects of different activities of the Government of India.

I convey my best wishes to the organisers and sincere greeting for these events' grand success.

(Tathagata Roy)

Dated: 30 October, 2023

Place: Kolkata



**Prof. Saugata Roy**  
**MEMBER OF PARLIAMENT**  
**(LOK SABHA)**

**MEMBER :**

- Parliamentary Committee on Public Undertakings
- Parliamentary Standing Committee on Finance
- Parliamentary Rules Committee
- Consultative Committee on Defence



**Kolkata :**  
162/D/593, Lake Gardens, Kolkata - 700 045  
Phone : 2422 0772 / 4650  
**Delhi :**  
58, Lodhi Estate, New Delhi - 110 003  
Telefax : 011-2465 6558

We are well known that the societies development is mainly depends on the development of its youth. Thus, Youth are the engine of our society. They have a wide range of abilities, both in positive or innegative way. It relies on how young people are mentored in their families, in schools & colleges, and also in their society as a whole. As the growth of every nation lies in the next generation, youth play a crucial part in nation-building or development. The future of democracy, the economy, technology, and medical science lies in the hands of the youth. The global issues that we are currently experiencing include poverty, unemployment, global warming, population explosion, malnutrition and other form of pollutions and all these issues can be resolve by upgrading the next generation, their abilities and empower the dreams to achieve the future India has the solution to all.

The "Central Calcutta Science & Culture Organisation for Youth" has engaged since its inception to uphold the exposure by holding NATIONAL INTEGRATION AND YOUTH LEADERSHIP CAMPS as time passes by, it is required to adapt to the changes and bring a change in society. The Youth is capable of doing so; we can bring a change in society. To promote this change, this year we are going to organize the 26th National Integration and Youth Leadership Camp in cooperation with Government of Arunachal Pradesh on and from 24<sup>th</sup> to 31<sup>st</sup> December 2023 on the theme of "Viksit Yuva, Viksit Bharat" in D.K. Convention Centre, Delhi Public School, Dera Natung Government College and Rajiv Gandhi University, Itanagar, Arunachal Pradesh. All the way from Arunachal Pradesh as well as Assam, Mizoram, Meghalaya, Manipur, Tripura, Nagaland and Sikkim the youth are participating in this auspicious camp. For the last 18 years they have been organizing camps in various states of India outside Bengal. To bring the harmony and boost in the economy of the country when the Youth is working and earning rather than being dependent on anyone, it is very important for us to serve them right training and inclusive education. Providing gainful and sustainable employment to the youth continues to remain as an important priority, particularly related to skill development as well as lifelong learning are construed as vital instruments to improve the employability and employment outcomes of the youth.

The North East State of India: Arunachal Pradesh has a significant role to develop the north eastern region, by youth population would get this excellent opportunity to learn new skills and acquire right knowledge through this 26<sup>th</sup> National Integration and Youth Leadership Camp. Through this camp they always tried to serve young participants, mainly students & youth between the age group of 14 -24 years. Instead of focusing on differences in culture, language and tradition the organisation priorities to focus on Viksit Yuva, Viksit Bharat by introducing innovative and impactful ideas and things will only contribute to the improvement of the nation. They have the capacity to build an individual identity, which will facilitate making an impression. The youth can make our nation great if they have the support of such organisation and the Central Government to inspire them to contribute to creating the nation. It connects the participants in the spirit of Ek Bharat and Shreshtha Bharat by bringing varied cultures from throughout the nation to a single stage. The only way to empowered the youth that they would also contribute to the improvement of the nation. Youth need to take charge and come forward to fight for a better tomorrow, and that can only be done if proper opportunities are provided to Youth in different fields to grow along with the nation. As a chief patron of this organisation, I convey my thanks to Government of Arunachal Pradesh, North East Council, Rajiv Gandhi university for their kind support.

It was rightly concluded by Swami Vivekananda- "All differences in this world are of degree, and not of a kind because oneness is the secret of everything"

Dated: 18.12. 2023  
Place: Kolkata

*Saugata Roy*  
(Professor Saugata Roy)



**Dr. Devesh Walia**

Professor & Head  
Department of Geology NEHI, Shillong CEO,  
Incubation Centr, NEHI, Shillong

**What is a Disaster?**

A disaster is a significant disruption, either natural or man-made, occurring over short or long periods. These events can lead to human, material, economic, or environmental hardships that exceed the capacity of the affected society to bear. India, like many other countries, faces various types of disasters, including:

1. Water and Climate Disasters: Floods, hail storms, cloudbursts, cyclones, heat waves, cold waves, and droughts.
2. Geological Disasters: Landslides, earthquakes, volcanic eruptions, and tornadoes.
3. Biological Disasters: Viral epidemics, pest attacks, cattle epidemics, and locust plagues.
4. Industrial Disasters: Chemical and industrial accidents, mine shaft fires, and oil spills.
5. Nuclear Disasters: Nuclear core meltdowns and radiation poisoning.
6. Man-made Disasters: Urban and forest fires, oil spills, and the collapse of huge building structures.

**What is Disaster Management?**

Disaster management is an integrated process that involves planning, organizing, coordinating, and implementing measures to:

- a. Prevent the threat of any disaster.
- b. Reduce the risk of any disaster or its consequences.
- c. Be ready to deal with any disaster promptly.
- d. Assess the severity of disaster effects.
- e. Provide rescue and relief.
- f. Facilitate rehabilitation and reconstruction.
- g. Nature based solutions.

The Disaster Management Act of 2005 defines disaster management as this comprehensive approach. It emphasizes preparedness, response, and recovery to minimize the impact of disasters on human lives, property, and the environment.

**What is Disaster Mitigation?**

Disaster mitigation refers to the efforts and strategies aimed at reducing the impact of disasters before they occur. It involves proactive measures to minimize the loss of life, property damage, and environmental harm. Here are some key components of disaster mitigation:

- i. Risk Assessment and Vulnerability Analysis:
- ii. Identify areas prone to specific hazards (such as floodplains, earthquake zones, or landslide-prone regions).
- iii. Assess the vulnerability of communities, infrastructure, and ecosystems.
- iv. Understand the potential consequences of disasters.
- v. Land Use Planning and Zoning:
- vi. Implement regulations to guide development in hazard-prone areas.
- vii. Restrict construction in high-risk zones.
- viii. Promote safe building practices and resilient infrastructure.

**Early Warning Systems:**

- a. Develop and maintain effective early warning systems for various hazards (e.g., cyclones, tsunamis, or flash floods).
- b. Ensure timely dissemination of alerts to communities.

**Natural Resource Management:**

- a. Protect and restore natural buffers (forests, wetlands, mangroves) that mitigate the impact of disasters.
- b. Sustainable land management to prevent soil erosion and landslides.

**Infrastructure Resilience:**

- a. Design and construct infrastructure (roads, bridges, buildings) to withstand disasters.
- b. Retrofit existing structures to enhance resilience.

**Community Awareness and Education:**

- a. Educate the public about disaster risks and preparedness.
- b. Conduct drills and training sessions.
- c. Encourage community participation in disaster planning.

**Climate Change Adaptation:**

- a. Address the impact of climate change on disaster frequency and intensity.
- b. Adaptation measures to cope with changing weather patterns.

**Financial Preparedness:**

- a. Establish contingency funds for disaster response and recovery.
- b. Invest in risk reduction measures.

Remember, mitigation saves lives and resources by preventing or minimizing the impact of disasters. It's an essential part of building resilient communities.



## SELF-POWERED SYSTEMS FOR FUTURISTIC BIOMEDICAL APPLICATION



**Dr. Sayan Bayan**  
Department of Physics, Rajiv Gandhi University, Doimukh,  
Arunachal Pradesh 791112, India

The rapid growth in technological assets have brought a great deal of comfort to the modern civilization. However, this modernization has led to several health related issues to human society. Consequently, extensive use of Internet of Things (IoT) based healthcare and biomedical devices have been witnessed in the recent years. Different healthcare devices have been designed to sense human body responses under different circumstances. Such healthcare devices are comprised of two main components; the sensor and the power source. The sensor is part of the system that can sense or measure the external stimuli and produce analogous electrical signals. In most cases, sensors require power sources to operate and most of the traditional sensors operate with battery sources. Now, following the excessive use of different biomedical or healthcare devices, the power consumption will be increased extensively in near future. To encounter such global crisis, the scientific community has developed tiny power sources called 'Nanogenerators' to power up different sensors. A typical Nanogenerator can harvest mechanical energy to yield electrical energy. Apart from different sources of mechanical energy around us, the energy related to human daily activities can be harvested to power up the sensors or devices used in daily life. Such devices can work under the principle of piezoelectric effect or triboelectric effect and are subsequently termed as piezoelectric nanogenerators (PENG) or triboelectric nanogenerators (TENG). A PENG is designed out of piezoelectric material which generates electricity due to the rearrangement of atomic/molecular dipoles during the application of any pressure or force. On the other hand, TENG operates under the joint effect of triboelectrification and electrostatic induction to generate electrical energy. Thus, the development of PENG and TENG may pave the path for fabricating self-powered electronic systems for future generations.

As far as the device structure is concerned, TENG being light weight, flexible and cost effective, may offer large scope to integrate to human body as wearable systems. The flexible/wearable TENG are efficient to scavenge energy from human motion for the generation of electrical signal. In other words, a flexible TENG can be considered as a self-powered sensor that can detect/monitor human motion. Particularly in the field of healthcare devices, the TENG based flexible/wearable motion sensors can be advantageous to monitor patient's health status like detection of freefall, posture or recognition of gesture. While a substantial progress has been achieved in TENG based sensor, modification of active material or designing of the device architectures can further enhance the performance of the sensors. Consequently, minute alteration in patient's body movement can be detected with such efficient sensors. Although conventional polymers are usually deployed in TENG fabrication, people have attempted the use of different nanostructured materials as flexible triboelectric layer to fabricate wearable TENG devices. In contrast to bulk materials, nanomaterial (having at least one dimension in nanoscale regime) offer higher surface to volume ratio to generate promising output.

The Nanoscale Energy Laboratory at Department of Physics, Rajiv Gandhi University, Arunachal Pradesh, is committed to develop TENG based self-powered sensors for health status monitoring application. With the financial support from Department of Science and Technology, Government of India, the researchers have developed several proof of concept prototype self-powered sensors. As reported in the journal Nano Energy, the research group has demonstrated the sweat sensing characteristics in a wearable sweat sensor composed of zinc oxide (ZnO) nanorods on textile platform. It is known that detection of sweat is important for people having hyperhidrosis symptoms to avoid physical problems like dizziness, weakness. While monitoring of excessive sweating through secondary hyperhidrosis in patients owing to the application of certain medication is also crucial. At such conditions, continual monitoring of the sweating characteristic through the deployment of wearable self-powered sweat sensors is desirable. The research group has been successful to demonstrate the sweat sensing characteristics of the fabricated sensor attached to the body of a user during real-time measurement. At another occasion, the development of TENG based flexible temperature sensor has also been reported by the group. Since temperature is a key parameter in determining human physiological conditions, temperature sensing of patients or aged people is an important aspect. Although a significant development has been achieved in this field, the consistent performance and long term stability of the sensor devices are the challenging areas. Such systems require further optimization or modification to achieve futuristic wearable sensors based on artificial intelligence of things (AIoT).

Reference:

- [1] B. Baro, S. Khimhun, U. Das, S. Bayan, Nano Energy 108 (2023) 108212.
- [2] B. Baro, S. Bayan, Sensors Actuators A Phys. 362 (2023) 114668.

प्रो. साकेत कुशवाहा  
कुलपति  
**Prof. Saket Kushwaha**  
Vice Chancellor



राजीव गाँधी विश्वविद्यालय  
केंद्रीय विश्वविद्यालय  
रोनोहिल्स, दोइमुख- ७९१ ११२  
अरुणाचल प्रदेश, भारत  
**Rajiv Gandhi University**  
**Central University**  
Rono Hills, Doimukh – 791 112  
Arunachal Pradesh, India

### MESSAGE YOUTH LEADERSHIP

*"Youth means to place your firm confidence in yourself & exercise your hopeful determination and resolution and willing good intentions in this beautiful task of self-culture. This will truly bring supreme satisfaction and fulfilment not only to you, but also to all concerned." ~ Swami Vivekananda ji*

The role of Youth in nation-building or development is very important, and this is because the development of any nation relies on the prowess of its future generations. Every aspect of development including democracy, economy, technology, art, culture and the improvement of medical sciences all lie in the hands of the Youth. Youth leadership plays a vital role in shaping the future of a country as it empowers young individuals for their optimal desired contributions. They inspire changes, foster innovations and drive progress by channeling the passion and energy of the youth towards positive endeavors. Through effective communication, collaboration, and a commitment to social responsibilities, youth leaders become catalysts for sustainable development and positive transformation in various aspects. Setting goals, solving problems, and making wise decisions are not just skills for leaders, but are necessary skills for leading a successful life. The progressions of leadership roles are critical so that teens can expand their leadership skills by performing different roles with different audiences. Recognition and respect by adults, peers, and younger youth enhance self-esteem and teens' sense of belonging in their community. With an ever evolving, increasingly competitive and dynamic nature of the global work culture, skills and competencies have to be identified based on individual interests and strengths which will be needed by workers for "productive and meaningful" employment in today's workforce.

Organizations, after school programming and extracurricular activities provide opportunities for youth where leadership is learned and taught. Service-learning projects are one method for increasing leadership opportunities for at-risk youth. Service-learning projects offer teens the opportunity to practice leadership skills and reflect on the experience to learn more about themselves. The qualities of a young leader should be immersed in life and soft skills essentially including a modest behaviour, empowering approach, and encouraging gestures, blended with individual characteristics such as organised, easy learner, goal oriented etc and I sincerely hope that a seven days camp would be first precursor to sow the seeds of an effective young leader. Here, in Itanagar, Arunachal Pradesh Central Calcutta Science and Culture Organisation for Youth is organizing this marvelous seven days National Integration and Youth Leadership Camp for the benefit of the young ones of Arunachal Pradesh as well as the North East India from 24<sup>th</sup> to 31<sup>st</sup> December, 2023. I hope the camp will definitely help the youths for positive development, social and emotional learning and also give a positive thrust to boost their intelligence and communication power. Before, I conclude, I would like to remind the youth on significance of taking care of your thoughts as Swamiji had once mentioned,

*"We are what our thoughts have made us; so take care about what you think. Words are secondary. Thoughts live; they travel far." ~ Swami Vivekananda ji*

I wish my best for the Camp and also to the organisers.

(Prof. Saket Kushwaha)

दूरभाषः/Tel: +91-360-2277252 (Off.) 2277261 (आवास/Resi.) +91-9936451995 (M), फैक्स/Fax: +91-360-2277317  
ईमेल:/E-mail: [saket.kushwaha@rgu.ac.in](mailto:saket.kushwaha@rgu.ac.in) [vc@rgu.ac.in](mailto:vc@rgu.ac.in) वेबसाइट:/Website: [www.rgu.ac.in](http://www.rgu.ac.in)



## Significance of National Integration



**Dr. M. Q. Khan, Principal**  
Dera Natung Government College,  
Itanagar

*National Integration Increases Economic Growth; Promotes Loyalty for the Nation; Ensures Social Harmony and Unites the Nation*

### **The Glory of India: An Overview**

India is a land of infinite diversities. Yet, despite our diversities and differences, we are united by a common thread: the unbreakable and the unshakable bond of national integration.

While participating in National Integration Camp, we celebrate this bond and recommit to working together in harmony to build a stronger, more united and integrated India.

We commit to respecting each other's diversities and differences and working together to overcome our challenges. Together, we can build an India that is truly inclusive and prosperous.

### **Understanding National Integration:-**

National integration signifies the state of living together diverse groups of people within a country to create a cohesive and unified nation. It involves fostering a sense of belonging, shared identity, and mutual understanding among citizens, regardless of their cultural, linguistic, religious, or regional diversities and differences. The objective of national integration is to promote social harmony, unity, and a collective spirit among the citizens of a nation, fostering a sense of patriotism and commitment to the well-being of the entire country.

### **Why do we need National Integration Camps?**

India is a country with many different cultures, languages, and traditions. National Integration Camp is all about celebrating this diversity. During National Integration Camp, youths are trained motivated to look beyond where they come from, the language they speak or the religion they believe in through imbibing and inculcating the faculty of true patriotism as proud Indians.

National Integration Camp is important because it brings people together. It makes us think about what we have in common, no matter where we're from.

So, National Integration Camp serves as a reminder to appreciate our diversities and differences and still feel like we're all part of one big Indian family. It is an occasion to recognize that, even though we might be different, we're all connected, creating a stronger and more united India.

National Integration camp is committed to promoting unity, diversity, and solidarity among the youths of our motherland. National integration in India is not just a phrase; it's a concept that helps keep our diverse population united. It binds people of different regions, religions, languages, and cultures into one harmonious nation.

National Integration camp in India refers to the process of bringing together the students and youths from diverse backgrounds, cultures, languages, religions and regions into a cohesive whole.

Educational institutions, government as well as non-government organizations, and other groups organize National Integration Camps. During National integration camps, various events and activities such as seminars, workshops, awareness on art & culture, games and sports, science & technology, tourism, skill & personality development, stress management through dance, aerobics, yoga, and meditation, cultural heritage, and cultural programmes, academic programmes etc in order to refresh about the significance of national integration.

National integration camps emphasize the values of peace, resilience, and the preservation of cultural heritage.

### **Conclusion:-**

National Integration is the bond and togetherness between people regardless of their caste, creed, religion or gender. It is the feeling of oneness, brotherhood and social unity under communities and society in a country. National Integration helps to keep the country unified and strong from within despite the diversities. So, the importance of national integration can be from the fact that the nation which remains integrated. It will always progress on the track of development and prosperity.

Let's celebrate our diversity and unity, let's pledge to respect, understand, and celebrate each other's unique identities as Unity is our strength, and diversity is our beauty.

## EARTHQUAKE

Sailaja Nanda, RGU

An earthquake is when a lot of energy in the ground suddenly breaks free, causing the ground to shake in waves that spread out from where it started. Earthquakes can be weak or strong, with some causing a lot of damage. The movement of the ground in an area is measured by looking at how often, what kind, and how big the earthquakes are over time. Most earthquakes happen around the edges of the Pacific Ocean, on an area called the "Ring of Fire," where tectonic plates meet. An earthquake starts at a place called the focus or hypocenter. The point on the surface directly above the focus is called the epicenter. When an earthquake happens, the shaking can travel far in all directions. The strength and features of the earthquake are decided by how the ground moves.

Earthquakes can happen because of things like landslides, volcanoes, mining explosions, fracking, and nuclear tests.

Earthquakes can have many different reasons and effects, and can cause big changes in the world around us. Earthquakes happen when there is a sudden movement in the Earth's crust, like when there is a big burst of energy along a fault. Other things like landslides, volcanoes, explosions from mines or fracking, and nuclear tests can also cause earthquakes. Earthquakes can cause different things to happen.

Earthquake shaking: This is the most common result of an earthquake, making the ground shake and possibly causing damage to buildings and roads.

Surface Faulting: Sometimes, earthquakes can make the ground break along the fault line, making it move and causing a noticeable change in the surface.

Ground failure happens when the ground changes, like when soil turns into liquid, or when landslides, cracks, or avalanches occur. This can cause a lot of damage to the environment and buildings.

Tsunamis happen when an earthquake under the ocean makes big waves that can cause a lot of damage.

Other things that can happen: fires, people getting hurt or sick for a long time, and infections spreading because of wounds that are not taken care of.

The bad things that happen after an earthquake can be changed by things like how big and strong the earthquake is, what the ground is like in that area, what time of day it is, and how well buildings and roads are made. It's important to learn about and lessen these effects to keep neighborhoods safe from earthquakes.

India experiences a lot of earthquakes because the Indian plate is pushing into Asia. Most of the earthquakes in India happen near the Pacific Ocean, in an area called the "Ring of Fire," where tectonic plates meet. Earthquakes happen in India because of the fast movement of the Earth's crust in a fault, landslides, volcanoes, mining explosions, fracking, and nuclear tests. Earthquakes in India can cause the ground to shake, make faults in the ground, and cause other problems like tsunamis and fires. They can also have long-lasting effects on people's health. In 2023, India had more earthquakes than in 2022. There were 124 earthquakes from January to November, compared to 65 in 2022. The number of earthquakes went up because the Almora fault in Western Nepal became active. This caused three big earthquakes on January 24 (M:5. 8), October 3 (M:6. 2), and November 3 (M:6. 4) Earthquakes happened in different parts of India, including the northern region like Delhi-NCR and Guwahati in Assam. The National Disaster Management Authority has been doing things to get ready for earthquakes, like practicing what to do during an earthquake, teaching people about earthquakes, and managing earthquakes to be ready in case one happens.



## Youth Empowerment: Viksit Yuva - Viksit Bharat

*"The young do not know enough to be prudent, and therefore they attempt the impossible, and achieve it, generation after generation." - Pearl S. Buck*

Have you ever wondered why a country with the largest youth population in the world is still struggling? Struggling to develop as a powerful nation in the global settings? Imagine, over 64% of the population in India falls under the working age group. It is the time to rethink and broaden our perspective about youth empowerment. To capitalize the youth power, we must improve the quality of our education, uniform and universal health care and allow full participation of youth in decision-making. We need to proactively involve in strengthening and empowering our young men and women towards self-determination and towards sustainable model of future development.



We are proud to be a part of the global phenomenon where young men and women are seeking active social, economic and political involvement. Giving power is what the word 'empowerment' denotes. Youth empowerment is the process of encouraging children and young people to take control of their lives individually as well as collectively. They accomplish this by first addressing their situation and then acting to enhance their access to resources and modify their awareness through their beliefs, values, and attitudes. When young people are exposed to exciting ideas and possibilities, as well as the skills to strengthen their confidence, they can take on anything. Youth empowerment is a psychological, structural, and cultural process in which young people develop the capacity, authority, and agency to make decisions and effect change in their own lives and the lives of others, essentially including the socially vulnerable and those at risk.

Youth have the ability to bring positive social change and redesign the society as a better place for future generations. Bringing financial equality and eradicating poverty, raising educational standards, proper governing methods and also reducing criminal offences in the society are some of the many changes the Indian youth can bring into effect. The youth today still need to reach out and access resources in order to transform the vision into a reality through their views and attitude. The youth has a major role to play in bringing social modifications, financial progress and prosperity in the country. The youth deserve creative freedom and the opportunity to shape the lives of the future generations in the best way possible by a critical awareness of present conditions and constructive alternatives. If our youth arise and act, they have the strength and dynamism to generate a huge transformation in the society. Youth becomes great, not because of their inherent power and energy, but because of their ability to empower others. The role of the youth in the nation building is crucial. They are problem solvers, have a positive influence on other young people and the nation, and are extremely ambitious. They have the ability to create an identity for themselves and move the nation forward. However, they will not be able to do this without the support of family, community, Government and fellow youths. Then the youth can make their beautiful land flourish and shine in success.

I hope these seven days camp on National Integration and Youth Leadership will bring positive changes in the life of participating youth and help them to empower themselves, evolve as better individuals and thereby strengthen the fabric as well as prospects of their society. I am reminded here with the thoughts of Mahatma Gandhi as he had mentioned, *"If we are to reach real peace in this world, we shall begin with YOUTH"*.

**(Dr. Ravi Ranjan Kumar)**

**Prof.(Dr.) Dhrubajyoti Chattopadhyay**

Ph.D, FASc., FNAsc., FAScT.  
Vice-Chancellor  
vc@snuniv.ac.in



## Vigyan Se Atma Nirbhar Bharat

Science has played a crucial role in making India self-dependent in various fields. The country has made significant strides in science and technology, contributing to its overall development and self-reliance.

In agriculture, advancements in agricultural science and technology have improved crop yields, introduced resilient varieties, and enhanced farming practices. This has not only ensured food security but also reduced dependency on external sources.

In the field of space exploration, the Indian Space Research Organisation (ISRO) has made remarkable achievements, including successful satellite launches, interplanetary missions, and the cost-effective Mangalyaan mission to Mars. These accomplishments have positioned India as a key player in space technology and reduced dependence on foreign space agencies.

The pharmaceutical industry has also benefited from scientific advancements, enabling India to become a global hub for the production of generic medicines. This self-sufficiency has not only met domestic healthcare needs but has also positioned India as a major supplier of affordable medicines worldwide.

Furthermore, advancements in information technology have led to the growth of the IT sector, making India a global IT outsourcing destination. This has contributed significantly to the economy and reduced dependence on foreign countries for technology services.

In energy, scientific research has led to developments in renewable energy sources such as solar and wind power. India's efforts to harness these clean energy alternatives contribute to energy security and reduce dependency on fossil fuels.

Overall, the application of science and technology across various sectors has been instrumental in making India more self-reliant, fostering economic growth, and elevating the country's global standing. In addition to the mentioned sectors, science has played a pivotal role in making India self-dependent in various other areas:

- **Defense Technology:** Scientific advancements have greatly contributed to the development of indigenous defense technologies. India has made significant progress in manufacturing its own defense equipment, including missiles, fighter jets, and naval vessels, reducing reliance on foreign arms imports.
- **Nuclear Energy:** India's nuclear program has made strides in both civilian and military applications. The development of indigenous nuclear technology has strengthened the country's energy security and reduced dependence on conventional sources.
- **Water Resource Management:** With water scarcity being a significant challenge, scientific research has led to advancements in water conservation and management. Technologies for efficient irrigation, rainwater harvesting, and wastewater treatment have been crucial for sustaining agriculture and providing clean water.
- **Telecommunications:** The expansion and modernization of the telecommunications sector have been fueled by scientific research. India's progress in developing and deploying communication technologies has improved connectivity across the country, fostering economic growth and social development.

The impact of science on India's self-dependence is widespread, influencing various sectors critical to the nation's progress and sustainability.

DG 1/2, New Town, Action Area - I, Kolkata-700 156, West Bengal

Ph: +91 33 66382047, 66382062, 18002588155(toll free) | Fax: +91 33 66382055

Email: info@snuniv.ac.in | website: www.snuniv.ac.in





# National Integration through Outdoor Education and Sports & Games



Prof. Alok K Banerjee  
Former Vice-Chancellor, University of Kalyani ,W.B

National integration is the awareness of a common identity amongst the citizens of a country. It means that though the individuals belong to different communities, castes, religions, cultures and regions and speak different languages, all of them recognize the fact that they are one. A bond of togetherness between people irrespective of their caste, creed, religion, and gender Is National integration. This is a feeling of oneness and brotherhood in a country where diversity is the main ethos.

A country like India has people from different cultures, languages and races and national integration not just aims to bind them together but also aims at giving them a better environment to live and prosper. National Integration is keeping the stability of the country and helps in its development. Education, social and cultural unity and equal access to all basic rights amenities foster a sense of integration in the citizens of a country. There are different activities and programmes which held like national festivals and Day's, NCC, Scouts and guide camps, NIC camps, educational tour, participation in different cultural events, organized camps like the present one (CCSCYOY camp) etc. Main theme of National integration is"Unity in Diversity: our strength, our pride" or "One Nation, Many Hearts: Together we thrive".

To build up national integration among youth a variety of programmes are being introduced in different cultures. Outdoor education including sports and games have a strong inherent potentiality that can enhance national integration.

## Outdoor Education

Outdoor education can be defined as experiential learning in, for or about the outdoors. The term outdoor education is used to refer to a range of organized activities that take place in a variety of ways in predominantly outdoor environments. There are many related terms for example; adventure education, environmental education, Expeditionary education etc and all such education are common in one way that these are outdoor education. Outdoor educationprogrammes are intended to provide a variety of learning experiences. These include individual character building through facing physical challenges, team building and trust in others, as well as direct experience of nature and learning skills to survive and enjoy the outdoors. Outdoor education spans the three domains of self, others and the natural world. Outdoor education programmes emphasize on; team work, to understand survival skills, understand natural environment, to develop leadership skills, to improve problem solving skills etc.

## Sports and Games:

Sports can unite a nation in a number of ways. For instance, sporting events can bring people together under some common banner (e.g. flag), as seen through the modern-day Olympics

Sports also can provide a nation with tangible, time-honored traditions as well as the mere happiness that comes with lighthearted gaming. Following are some important characteristics that are in-build in the sports and games

*Sports are physical and mental skill-intensive exercises.*

*Since ancient times, sports have been a significant and necessary component of human life.*

*Sport enhances a person's personality and character.*

*It aids in maintaining our bodies' physical health and fitness.*

*Sports have several positive health effects, including managing diabetes, heart disease, and weight loss.*

*Playing sports increases our brain acuity and muscle strength.*

*Our sense of self-confidence increases when we play sports frequently.*

*We develop our perseverance, willpower, teamwork, and planning through athletics.*

Physical education and sports is a media through which integration process shall take place. The term integration consists of co-operation. Co-operation is an integrated action of individuals or groups towards the achievement of some common purpose or goal. Sports competitions, group competitions, inter-community sports contests, intramural sports competitions, special programmes in the schools and at home play a predominant role in developing the concept of national integration. The spirit of brotherhood and friendship is fostered through games and sports.

# BURDEN OF CANCER IN ARUNACHAL PRADESH

Dr. Arnab Ghosh

Assistant Professor, Department of Zoology, Rajiv Gandhi University

India is experiencing a surge in cancer cases, with an expected 2 million more cases by 2022. Throughout their lives, 10% of Indians will get cancer, and 15% will die from the illness. According to the World Health Organization (WHO), India ranks third globally in terms of new cases reported annually; however, other reports indicate that this number may be underestimated due to the high number of cases that go undetected or are misdiagnosed.

By the next five years, the cancer rate in India might grow by 12%, according to the Indian Council of Medical Research (ICMR). According to the "Burden of cancer" research, the following seven cancers account for 40% of all cancer cases: mouth, stomach, liver, cervical, breast, esophageal, and lung. Approximately 25% of all malignancies in women are specifically breast cancers. There are numerous causes for the rise in different types of cancer. First, life expectancy in the nation has increased, rising from roughly 45 years in the 1960s to nearly 70 years at present. Cancer incidence naturally rises with a person's length of life. A number of different types of cancer are largely caused by alcohol and tobacco use. In the past few decades, a variety of other risk factors have surfaced, such as pollution, infection, sedentary lifestyle, nutrition, and obesity. Unfortunately, the northeast India is called the "cancer capital" of India. The highest cancer cases I recorded in the state of Meghalaya. In Arunachal Pradesh stomach cancer and liver cancer are more prevalent in males. On the other hand, stomach cancer and cancer of the cervix is most common in females followed by breast cancer. Undoubtedly, some of the local food habits and diverse cultural practices are contributing to these higher incidence of cancer rates in this tribal populations. It is high time to understand the risk factors and to introduce major management strategies to cope up with this increasing rise of cancer cases in marginal tribal populations of Arunachal Pradesh.



## MICROPLASTIC AND ENVIRONMENT



**Dr Apurba Ratan Ghosh**  
Professor & Head  
Department of Environmental Science  
The University of Burdwan, Burdwan  
E-mail: [apurbaghosh2010@gmail.com](mailto:apurbaghosh2010@gmail.com)

Microplastics (MPs), the small, barely visible tiny pieces of plastics generated through environmental degradation of larger plastics in course of time becoming a size ranging from 5 millimeter to 100 nanometer are the serious concern today. They enter natural environment from a variety of sources. Now, the global production of plastics has crossed the amount of 350 million tons (Mts) per year including at least 40% is single-use plastics (SUPs), every year the world uses 500 million SUP bags. Environmental degradation of MPs is caused by waves, UV-radiation, sunlight, abrasion, photo-oxidation in association with bacteria to make the plastics, into micro- and nanosized invisible particles. Sea coasts are mostly encroached by microplastics; they are also distributed in seafood, fish & shellfish, sea salts, beverages, bottled drinking water, and mostly food in plastic packaging, alimentary tract of marine animals and human intestine. Actually, fish is an easily available, low cost protein source for at least 6.1% of all protein consumed globally, and now these microplastic-infested fish and shellfish consumed by human being lead to its presence in blood stream, stool, placenta, liver, lung, brain and even in most precious mothers' breastmilk. Human placenta regulates foetal embryos to maternal environment and to the external indirectly acting as a crucial interface between different complex systems, but this microplastics are causing failure in differentiation between self and non-self foetal communication, signaling between embryos and the uterus and trafficking of uterine dendritic cells, natural killer cells, T cells and macrophages, finally, resulting into harmful for pregnancy and/or a maldevelopment in the embryo.

Microplastics from environmental media like air, water and soil enter human body by ingestion, *i.e.*, food intake, inhalation, *i.e.*, air breathing, and dermal contact, *i.e.*, skin contact. Commercially manufactured microbeads (MBs)/MPs used in cosmetic products as glitter, facial cleansers and cosmetics, microbeads as micro-exfoliates, face washes, sunscreen, hand soaps, shampoo and conditioner, baby care products, nail polish, deodorant, hair dye facial scrubs, and dish scrubbing pads, *etc.*, are really causing menace to our environment. Everyday 8 trillion MBs are entering aquatic environments covering 300 tennis courts daily that are end up in the stomachs of seabirds, whales, turtles and other marine life. After entry it is distributed through blood and passes through the cell membranes and translocate to different organs/tissues in the tune of bioaccumulation. Our oceans, called as biggest bin, are covered with 15 to 51 trillion individual pieces of plastic litter weighing between 93,000 to 2,36,000 metric tons. Presently, several countries have framed new regulations on plastic waste management and strategies of recycling, *e.g.*, Europe promised to recycle approximately 32.5% and 24.9% under landfills, and preventing entering waterways. Microplastic-wastes are monumental problems globally, it endangers organisms living on aerial to arboreal, terrestrial and aquatic ecosystems, but has got little attention, that is why it becomes a big question to sustainability of human race.

## About the National Integration Camp



**Nemai Chandra Pramanik**  
Chief General Secretary



**Rita Paul**  
General Secretary

Since 1996, the renowned social, voluntary and philanthropic society "Central Calcutta Science and Culture Organisation for Youth" was founded, it celebrates its journey with various annual commitments by yearly organized such National Exhibition, National Integration and Youth Leadership Camp, National Seminars, and workshops to encourage the young minds, to cultural-tie up between students & youth of different corner of India, to make an eternal bond between students of all over India with the aim of implementing people-centered and community-oriented development programmes with permanent impact on their life.

Our motto is to draw inspiration among students & youth from the vibrant colours of India's national flag saffron, white and green, and the blue chakra that reflects growth amid challenges. We generously organize this National Integration and Youth Leadership Camp since the organisation's inception and it has been 25 years of oath to convey a powerful message among the society by delivering our selfless care and service to bring the most remarkable change of this era. We have had already successfully arranged this National Integration Camp in numerous places of West Bengal as well as other states of India. In West Bengal we have covered Kolkata, Haldia, Durgapur, Asansol, Farakka, etc, where as around 17 states are witness in this National Integration and Youth Leadership Camp viz, Jharkhand, Orissa, Andhra Pradesh, Bihar, Uttar Pradesh, Madhya Pradesh, Maharashtra, Karnataka, Rajasthan, Goa, Meghalaya, Gujrat, Assam, Tamil Nādu, Tripura and previous year in Andaman & Nicobar Island.

In this National Integration and Youth Leadership Camp, mainly the participants are youth and students of various classes and the different age group from 14 to 22, are the future-generation of India, and here we also consider them as the pillar of new India. Throughout the camp period, we offer them efficient trainings on different courses and also happily arrange their lunch & refreshments' during the eight days of the National Integration and Youth Leadership Camp. Training subjects have been carefully chosen such as Yoga, Aerobics, Drill, Self-Defence, Parade, Career Guidance, Technical Education, Music & Dance and Audio-Drama by experts, high dignitaries, vice- chancellors, professors, trainers and so on as well as on self-defense, first-aid training for their self-development and self- help, self-reliant and a discipline life. In this backdrop we mainly choose those subjects for training which can be beneficial for them in a long-run and a way to learn Indian brotherhood culture in this session after the camp period and all over their life. Overall, in this training period, the students & youth all stands up together and stay here for 8 days in the camp which made them disciplined, they can understand the value of time, mutual cooperation and friendliness. With the time participated students found that there are multi-cultural, multi-lingual, multi-racial people which help them to stay unite and develop a sense of integrity, which is positively help them to grow in their future endeavors.

Lt Gen Kaiwalya Trivikram Parnaik, PVSM, UYSM, YSM(Retd), Hon'ble Governor of Arunachal Pradesh, Prof. Saket Khuswaha, Vice Chancellor, Rajiv Gandhi University, Shri Takam Pario, Founder Chairman, Delhi Public School, Itanagar, Dr. MQ Khan, Principal, Dera Natung Government College, Itanagar and other Professors, Scientists etc. will be present in our auspicious Inaugural Ceremony of the 26th National Integration and Youth Leadership Camp on 24th December 2023 at D.K. Convention Centre, Itanagar Arunachal Pradesh which will make this event more superior. Eminent persons and high dignitaries of North-East India will also be present at this auspicious ceremony. Students from different provinces of North-East India including Assam, Manipur, Mizoram, Meghalaya, Nagaland, Tripura, Sikkim and Arunachal Pradesh will participate in this Camp.

Dr. Rajkumar Ranjan Singh, Hon'ble Minister of State for Education & External Affairs, Government of India will be present as the 'Chief Guest' at 10 am on 27th December 2023 at Rajiv Gandhi University, Itanagar and also at 10 am on 28th December 2023 at Dera Natung Government College, Itanagar, Arunachal Pradesh. Shri Jagannath Sarkar, Hon'ble Member of Parliament, Lok Sabha will also be present as 'Special Guest' at this remarkable programme.

Our '26<sup>th</sup> National Integration and Youth leadership Camp' will be held at Rajiv Gandhi University, Dera Natung Government College, Delhi Public School, Arunachal Pradesh on the occasion of All India Student & Youth Festival on the theme of "Viksit Yuva - Viksit Bharat" on and from 24<sup>th</sup> to 31<sup>st</sup> December 2023. Moreover, this year we expect around 1000 participants from the North-east zone at this camp. This year we will be holding various National Seminars by eminent scientists and professors and also a career guidance and counsellors by the Indian Defence Sector. These innumerable benefits at National Integration Camp can only be realized when acquire by the students of North-east in Itanagar by taking part at 26<sup>th</sup> National Integration Camp which allows them to access truly an inclusive training at free of cost.

To execute our noble aim, we cordially welcome all the students and youths to participate in this camp. With the kind help, support and co-operation of Rajiv Gandhi University, Dera Natung Government College, Delhi Public School, Government of Arunachal Pradesh, Ministry of Science & Technology, Ministry of Earth Science, Department of Space, Ministry of Defence including Indian Army, Indian Air Force, Indian Navy, DRDO, Ministry of Culture, North-Eastern Council, Ministry of Petroleum & Natural Gas, Hindustan Copper Limited, National Thermal Power Corporation Limited, Indian Oil Corporation of India and other PSUs of Government of India and State Government and all the people of India mainly the North-East, we will be able to accomplish this dream for the upliftment of the people and the future India.



राजनाथ सिंह  
RAJNATH SINGH



रक्षा मंत्री  
भारत  
DEFENCE MINISTER  
INDIA

### MESSAGE

I am happy to note that “Central Calcutta Science & Culture Organization for Youth” is keen to organize ‘26<sup>th</sup> National Defence Exhibition’ at Central Park Maidan, Salt Lake, Kolkata from 24<sup>th</sup> to 27<sup>th</sup> August, 2023 on “Contribution to Make Advanced, Powerful & Great India”.

I have also been told that the organization is organizing ‘26<sup>th</sup> National Integration & Youth Leadership Camp’ from 24<sup>th</sup> to 31<sup>st</sup> December, 2023 at Itanagar, Arunachal Pradesh on the theme of “Viksit Yuva-Viksit Bharat”.

I convey my best wishes for the success of these events.

‘Jai Hind’

(Rajnath Singh)

Place : New Delhi  
Date : 31<sup>st</sup> July, 2023

Office : Room No. 104, Ministry of Defence, South Block, New Delhi-110011  
Tel. : +91 11 23012286, +91 11 23019030, Fax : +91 11 23015403  
E-mail : rmo@mod.nic.in

### PROBIOTICS IN AQUACULTURE: CONCEPT AND APPLICATION



**Prof. Koushik Ghosh**

Aquaculture Laboratory, Department of Zoology, The University of Burdwan, Golapbag,  
Burdwan-713104, West Bengal, India  
E-mail: kghosh@zoo.buruniv.ac.in

The concept of probiotic activity had its origin in the knowledge that active modulation of the gastro-intestinal (GI) microbiota could confer antagonism against pathogens, facilitate development of the immune system, provide nutritional benefits and assist the intestinal mucosal barrier. Subsequently, Fuller (1989) gave a precise definition of probiotics which is still widely referred to, i.e., “a live microbial feed supplement which beneficially affects the host animal by improving its intestinal balance”. Gatesoupe (1999) proposed a formal definition as “microbial cells administered in a certain way, which reaches the gastrointestinal tract and remain alive with the aim of improving health”. However, the most modern definition of probiotics for the aquaculture sector was given by Merrifield et al (2010), “any microbial cell provided via the diet or rearing water that benefits the host fish, fish farmer or fish consumer, which is achieved, in part at least, by improving the microbial balance of the fish”.

Bacterial communities inhabiting within the GI tract influence various host functions including digestion, development, nutrition, immunity and disease resistance. These beneficial bacteria have been suggested to be used as probiotics by incorporating them into formulated diets, or in the form of bacteria biofilm. The use of host-associated bacteria as probiotics has gained attention, as the indigenous microbiota might have an opportunity in colonizing the host gut at a higher degree to exhibit health benefits. Selection criteria of the probiotic organisms should consider functionality, colonization ability, viability and bio-safety to ensure expected benefits from the probiotics. However, assumptions based on in vitro selection procedures might not comply faithfully with in vivo conditions. Thus, effective probiotics could be developed through validation based on proper selection criteria coupled with in vivo trials. Enzymatic activities of the gut bacteria may indicate their ability to aid in digestion of the complex feedstuffs, and the use of such beneficial bacteria as probiotics have been suggested for commercial aquaculture. Many of the autochthonous endosymbiotic gut bacteria in fish are antagonistic against pathogenic bacteria. Application of antibiotics to combat bacterial diseases in fish has been criticized due to likely emergence of drug resistance. Thus, antimicrobial potential of the gut-associated bacteria has been viewed as an alternative to the antibiotics. Bioactive compounds in the cell free supernatant of host associated bacteria are often proteinaceous, bacteriocin like and antagonistic to the pathogenic bacteria. The main fermentation products of gut-microbial metabolism are the short chain fatty acids (SCFAs), e.g., acetate, propionate and butyrate. SCFAs produced through fermentation of insoluble dietary fibres by the gut microbiota may be used by immune cells of the gut-associated lymphoid tissue and contribute to enhanced immune response as well as improved disease resistance in fish. Although mode of action of the probiotics in modulating host immune responses and disease resistance are yet to be established in a conclusive way, conjoint applications of the host associated probiotic bacteria have been proved beneficial in many of the recent studies.



## A SUCCESSFUL MISSION CHANDRAYAAN-3 & EXPEDITING NEW SPACE INDIA: CURRENT SCENARIO, CHALLENGES AND WAY FORWARD

**Dr. Tirtha Pratim Das**

Director, Space Science Programme, ISRO Headquarters, Bangalore

Email: [tp\\_das@isro.gov.in](mailto:tp_das@isro.gov.in)

Phone: 9447186174

India's Lunar exploration programme fits the bigger picture of the exploration of the solar system. India's solar system exploration endeavour focusses on systematic studies on the planets and natural satellites, and the lunar exploration provides an insight on the origin and evolution of the rocky celestial bodies of the solar system.

India's lunar exploration journey, starting with Chandrayaan-1 (2008) and Chandrayaan-2 (2019), culminated in Chandrayaan-3 (2023). Chandrayaan-1 focused on lunar mapping and included the Moon Impact Probe, revealing several ground-breaking science results on the Moon, as well as the Sun-Moon interaction. Chandrayaan-2 contributed valuable data through eight scientific experiments onboard its orbiter. While Chandrayaan-1 and 2 facilitated orbiter-based observations, the need for in-situ lunar surface measurements prompted the Chandrayaan-3 mission, designed to study the lunar environment, regolith properties, and conduct spectro-polarimetric studies of Earth from lunar orbit.

On August 23, 2023, at 18:04 IST, India's Chandrayaan-3 achieved a soft landing on the Moon at coordinates 69.3 degrees S, 32.3 degrees E, marking India as the fourth nation to accomplish this feat, joining Russia, the United States, and China. India also became the first country to have ever soft-landed on the higher lunar latitude.

Like any other series of scientific missions, the Chandrayaan series has revealed many facets of the lunar science, as well as opened up the plethora of new set of scientific questions. These prompt for laying out a roadmap for the lunar exploration with bigger goals.

This lecture will cover the importance of the lunar exploration in the understanding of the solar system, the Indian lunar exploration programme and its scientific impact, more information on the Chandrayaan-3 mission and its significance in the context of India's lunar exploration program. The way forward in the lunar exploration will also be discussed, with a clear definition of engagement of the student community to lead the future exploratory programme of the country.

**पीयूष गोयल**  
**PIYUSH GOYAL**



वाणिज्य एवं उद्योग,  
उपभोक्ता मामले, खाद्य और सार्वजनिक वितरण तथा  
वस्त्र मंत्री, भारत सरकार  
MINISTER OF COMMERCE & INDUSTRY,  
CONSUMER AFFAIRS, FOOD & PUBLIC DISTRIBUTION AND  
TEXTILES, GOVERNMENT OF INDIA



### MESSAGE

I am delighted to learn that the Central Calcutta Science & Culture Organisation for Youth (CCSCYOY) is organising its 26<sup>th</sup> National Exhibition from 24<sup>th</sup>-27<sup>th</sup> August, 2023 in Kolkata. The theme of the exhibition 'Contribution to Make Advanced, Powerful & Great India' resonates with the rising stature of our nation globally.

It is noteworthy that CCSCYOY is also planning to organise the 26<sup>th</sup> National Integration and Youth Leadership Camp from 24<sup>th</sup>-31<sup>st</sup> December, 2023 in Arunachal Pradesh with the theme of 'Viksit Yuva - Viksit Bharat'. These occasions will see the release of a magazine which will include valuable articles on these programmes.

Under the dynamic leadership of Hon'ble Prime Minister Shri Narendra Modi, the Government of India is undertaking several initiatives to make the youth of India future ready. These include the Skill India Mission that promotes skill upgradation through training programmes, the Study Webs of Active-Learning for Young Aspiring Minds (SWAYAM) e-learning platform that ensures 'anywhere access to knowledge' amongst others. These initiatives act as a catalyst towards fulfilling Hon'ble Prime Minister's commitment to ensure employment generation and provide meaningful opportunities to the youth for their empowerment and participation in national development.

I am hopeful that these events will be beneficial for our younger generation in gaining information and experience on different topics. It will also help them to become capable of taking the country forward in *Amrit Kaal*.

I convey my best wishes for the successful culmination of both of these events and wish CCSCYOY all success in its future endeavours.

**Piyush Goyal**



Ministry of Commerce & Industry, Vanija Bhawan, Akbar Road, New Delhi-110001  
Tel. No. : +91 11 23039110, 23039111, E-mail : [cimoffice@nic.in](mailto:cimoffice@nic.in)





## डॉ० जितेन्द्र सिंह

राज्य मंत्री (स्वतंत्र प्रभार)  
विज्ञान एवं प्रौद्योगिकी मंत्रालय;  
राज्य मंत्री, प्रधान मंत्री कार्यालय;  
राज्य मंत्री कार्मिक, लोक शिकायत एवं पेंशन मंत्रालय;  
राज्य मंत्री परमाणु ऊर्जा विभाग तथा  
राज्य मंत्री अंतरिक्ष विभाग  
भारत सरकार



सत्यमेव जयते

D.O. No. 21/69... MoS(VC)/(S&T)/20 23

**Dr. JITENDRA SINGH**

Minister of State (Independent Charge)  
of the Ministry of Science and Technology;  
Minister of State in the Prime Minister's Office;  
Minister of State in the Ministry of Personnel,  
Public Grievances and Pensions;  
Minister of State in the Department of Atomic Energy and  
Minister of State in the Department of Space  
Government of India



### MESSAGE

I am happy to know that Central Calcutta Science & Culture Organization for Youth will be organizing 26<sup>th</sup> National Science Exhibition at Central Park Maidan, Salt Lake, Kolkata from 24<sup>th</sup> to 27<sup>th</sup> August, 2023 on the theme "Contribution to Make Advanced, Powerful & Great India". Further, I am told that the 26<sup>th</sup> National Integration & Youth Leadership Camp will also be organised from 24<sup>th</sup> to 31<sup>st</sup> December, 2023 at Itanagar, Arunachal Pradesh on the theme "Viksit Yuva-Viksit Bharat".

I extend my best wishes to all the organizers and participants and wish them all the success for these events.

(Dr. Jitendra Singh)  
MBBS (Stanley, Chennai)  
MD Medicine, Fellowship (AIIMS, NDL)  
MNAMS Diabetes & Endocrinology

Anusandhan Bhawan, 2, Rafi Marg  
New Delhi-110001  
Tel. : 011-23316766, 23714230,  
Fax. : 011-23316745

South Block, New Delhi-110011  
Tel. : 011-23010191 Fax : 011-23017931  
North Block, New Delhi-110001  
Tel. : 011-23092475 Fax : 011-23092716

## INDIAN SPACE INDUSTRY MOVING TOWARDS AATMANIRBHAR BHARAT

**Dr. Vinod Kumar,**

*Director, Indian National Space Promotion and Authorisation Centre (IN-SPACe)*

Post space sector reforms, unleashed by the Government of India in June 2020, a new era of space exploration and space-inspired industries has begun to unfold. There are ample opportunities for everyone from India, to take part in the global space economy and vice versa. An independent nodal agency under Department of Space - the Indian National Space Promotion and Authorization Centre (IN-SPACe) has been created in June 2020 "to promote, enable, authorise, and supervise Space Activities of Non-Governmental Entities (NGEs)." Earlier during March 2019, cabinet approved creation of new company "New Space India Limited" to; enhance ISRO- Industry interface & carry out commercialization of ISRO's space products & services. NSIL is a wholly owned Government of India undertaking / central public sector enterprise, under the administrative control of Department of Space (DOS). NSIL is the commercial arm of ISRO.

Led by Indian Space Research Organisation (ISRO) India's space program has impressively evolved for the past 50 years. In terms of technological capabilities India ranks among the top five space faring nations of the world. India is globally recognised for building low-cost satellites and launch vehicles. ISRO has developed fleet of launch vehicles namely small satellite launch vehicle (SSLV) polar satellite launch vehicle (PSLV), geosynchronous satellite launch vehicle (GSLV) and GSLV MK-III. On satellite front, ISRO has developed communication, navigation, earth observations and scientific satellites.

Indian space policy 2023 is announced on April 06, 2023, removing all the road blocks that existed in the twenty-year-old policy. Foreign Direct Investment (FDI) and Space activities Bill are in the final phases to ease doing business in India. India's moon mission Chandrayaan-1 has changed the world's perspective about India as it discovered water on the Moon. India has developed capabilities in remote sensing, communication and navigation as well. Chandrayaan-3 moon landing has demonstrated capability of India in developing and demonstrating cutting edge technologies.

Indian Government has laid down vision for next 25 years. World is looking forward to work with India because it has strong need and emergence of Indian economy has demonstrated its resilient during major global crisis. We believe in cooperation and power of technology for the benefit of mankind. India is a leading information technology (IT) nation and has ambition to go digital in the areas of citizen centric services viz. financial transactions, citizens database, resource mapping and planning etc. Space sector plays a vital role in all these services.

The growth of space sector in India is being aided by the vision and strategy laid by the Government, to take space sector to next level. IN-SPACe has announced decadal vision and strategy for Indian commercial space sector to increase India's share in Global space economy to 8% from ~2% currently. It shows aspiration of the country to grow. This can be achieved by developing space applications for the public needs. 80% of Indian population lives in village and there is a huge market in services sector. Be it communication, remote sensing, navigation etc., the requirement is huge. This requires faster launch facilities and launches. There is a requirement of thousands of satellites but we have only fifties. Thus, requiring the need for robust supply chain management, strong global cooperation for space industry to grow. This provides new avenues for everyone to contribute and develop frugal technologies like India's Mars mission.

To promote and enable non-government entities (NGE's) to carry out end-to-end space activities, IN-SPACe has devised and implemented some promotional schemes viz. Seed fund scheme, skill development of NGE's, discount policy, hand-holding & mentorship, facility support and transfer of technology. A national committee is formed for adoption of space technology courses in India with members from over a dozen Institutions and universities. Various student competitions and hackathons are being planned to encourage next generation to learn by doing deep space technology. Efforts are also being made to create awareness and generate demand for use of space technology, about the benefits of space technology to common man though अंतरिक्ष कार्मिक समिति ।

Indian space is no longer controlled by Institutional frame work or by Government, its available to all. With new policies, India is open for discussions in all the areas of space.



शांतनु ठाकुर  
SHANTANU THAKUR



सत्यमेव जयते  
75  
Azadi Ka  
Amrit Mahotsav

MESSAGE

राज्य मंत्री  
पत्तन, पोत परिवहन और जलमार्ग मंत्रालय  
भारत सरकार  
Minister of State  
For Ports, Shipping and Waterways  
Government of India

I am happy to note that Central Calcutta Science & Culture Organisation for Youth is going to organize their "26<sup>th</sup> National Exhibition" on the theme of "Contribution to make Advanced, Powerful & Great India" on and from 24<sup>th</sup> – 27<sup>th</sup> August 2023, at Central Park Maidan, Salt Lake City, Kolkata – 700064. They have also a planned schedule of their 26<sup>th</sup> National Integration & Youth Leadership Camp from 24<sup>th</sup> – 31<sup>st</sup> December 2023, Itanagar, Arunachal Pradesh on the theme of "Viksit Yuva- Viksit Bharat" for the betterment of the north-east states of youth & common people of our large society.

Such type of National Programme motivates the young towards more positive, fruitful attainments and engages them with various self-development programmes, skills and literacy. With the help of active participation of students and youth, I wish it will become a milestone for the society.

In this auspicious year they have scheduled to perform such national level programmes. I wish them heartiest congratulation and I firmly believe that they will reach a new peak of success and will serve for beneficial for the students, youth and all walks of life and therefore, would receive cooperation from all quarters. For this we should unite and extend our hands to make to these events a grand success.

(SHANTANU THAKUR)



Transport Bhawan, Parliament Street, New Delhi-110001, Tel. : 011-23710189, 23710356

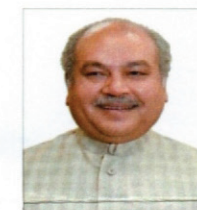
नरेन्द्र सिंह तोमर  
NARENDRA SINGH TOMAR

D.O. No...676.../AM



सत्यमेव जयते  
75  
आज़ादी का  
अमृत महोत्सव

कृषि एवं किसान कल्याण मंत्री  
भारत सरकार  
कृषि भवन, नई दिल्ली  
MINISTER OF AGRICULTURE & FARMERS WELFARE  
GOVERNMENT OF INDIA  
KRISHI BHAWAN, NEW DELHI



MESSAGE

I am glad to know that the "Central Calcutta Science & Cultural Organisation for Youth" is organising "26<sup>th</sup> National Agriculture Exhibition" on the theme of "Contribution to Make Advanced, Powerful & Great India" from 24<sup>th</sup> to 27<sup>th</sup> August, 2023 at Central Park Maidan, Salt Lake City, Kolkata-700064.

The organisation has organised programmes that motivates the younger generation to have positive and productive approach to learning and other activities.

I am also glad to know that this year they are organising their '26<sup>th</sup> National Integration and Youth Leadership Camp' on the theme of "Viksit Yuva - Viksit Bharat" from 24<sup>th</sup> to 31<sup>st</sup> December, 2023 at Itanagar, Arunachal Pradesh.

I wish them success.

(Narendra Singh Tomar)

Office : Room No. 120, Krishi Bhawan, New Delhi-110 001 Tel.: 23383370, 23782691 Fax : 23384129  
Resi. : 3, Krishna Menon Marg, New Delhi-110001, Ph. : 011-23794697 / 98, Fax : 011-23794696



प्रल्हाद जोशी  
PRALHAD JOSHI  
ಪ್ರಲ್ಹಾದ ಜೋಶಿ



#### Message

I congratulate the Central Calcutta Science & Culture Organisation for Youth for organising the 26th National Integration and Youth Leadership Camp, on the theme 'Viksit Yuva Viksit Bharat'.

India has one of the youngest populations in the world. Our strength are the country's young minds who are driving a culture of innovation, entrepreneurship and diversity. Making the youth of India aware will empower them and encourage them to become changemakers. Enhancing awareness is the most certain way to ensure that India becomes a VishwaGuru.

I am happy to note that the National Integration Camp will provide an excellent platform to educate and empower the young minds of this nation. I extend my best wishes to the organisers and participating individuals.

(Pralhad Joshi)

Office : Room No. 15, Parliament House, New Delhi-110001, Tel : 011-23017780, 23017798, 23018729, Fax : 011-23792341  
Office : Room No. 353, 'A' Wing, 3<sup>rd</sup> Floor, Shastri Bhawan, New Delhi, Tel : 23387277, 23383109, 23386402  
Residence : 11 Akbar Road, New Delhi-110001, Tel : 011-23014097, 23094098,  
H. No. 122-D, 'Kamitartha' Mayuri Estate, Keshwapur, Hubli-580023 (Karnataka)  
Tel. No. : 0836-2251055, 2258955, E-mail : pralhadvjoshi@gmail.com

संसदीय कार्य, कोयला एवं खान मंत्री  
भारत सरकार  
नई दिल्ली  
MINISTER OF PARLIAMENTARY AFFAIRS,  
COAL AND MINES  
GOVERNMENT OF INDIA  
NEW DELHI

गजेन्द्र सिंह शेखावत  
Gajendra Singh Shekhawat



जल शक्ति मंत्री  
भारत सरकार  
Minister for Jal Shakti  
Government of India

30 MAY 2023

#### MESSAGE

I am glad to know that 'Central Calcutta Science & Cultural Organisation for Youth' is going to organize "26th National Exhibition" from August 24th to 27th, 2023, with the theme of 'Making Advanced, Powerful & Great India' at Central Park Maidan, Salt Lake, Kolkata.

In addition to the aforesaid event, the organisation will also hold the "26th National Integration & Youth Leadership Camp" in Arunachal Pradesh's capital Itanagar from 24th to 31st December, 2023.

I congratulate the organization for its relentless efforts in providing a platform that nurtures the talents of our nation's youth, promotes scientific inquiry, and celebrates our rich cultural heritage. The event will serve as a testament to the dedicated spirit of our youth and their commitment to innovation, learning and national integration.

I extend my best wishes to all the organizers and participants, and wish you all the success in your consistent endeavour.

(GAJENDRA SINGH SHEKHAWAT)



Office : 210, Shram Shakti Bhawan, Rafi Marg, New Delhi-110 001  
Tel: No. (011) 23711780, 23714663, 23714200, Fax : (011) 23710804  
E-mail : minister-jalshakti@gov.in