



ATOMIC ENERGY CENTRAL SCHOOL-4, MUMBAI
ANUSHAKTINAGAR, MUMBAI, MAHARASHTRA-400094

परमाणु ऊर्जा केन्द्रीय विद्यालय-4, मुम्बई, महाराष्ट्र

NEWSLETTER

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FROM PRINCIPAL'S DESK



Teaching is a very noble profession that shapes the character, calibre, and future of an individual. If the people remember me as a good teacher that will be the biggest honour for me"

A.P.J. Abdul Kalam

Education in general and School education in particular lays the foundation for the future of the students and ensures a stable, successful and satisfied life. AECS-4,

Mumbai is well aware of the importance and significance of different stages of students' life and the activities of the school are planned accordingly to identify and nurture their inherent talents. Teaching and learning process is mainly child centered and targets to prepare every individual for their career and to acquire adequate life skills. The school activities are planned and prepared meticulously, giving equal importance to academics, co-curricular and extra-curricular activities. These activities are strategically implemented to ensure the holistic and overall development of the students. The school is well equipped with the state of the art facilities and an excellent infrastructure which provides an ideal and safe environment for teaching and learning.

I feel proud to express that the school is performing extremely well in all the

aspects to ensure academic and human excellence. It is my pleasure to present you the first e-newsletter of the school which reflects all the activities, events, functions that were organized in the school and the achievements of the students and teachers for the period April 2016 to December 2016. The next issue of the e-newsletter is expected to be published by the end of the ongoing academic session.

The clear vision of the management, the systematic approach and implementation of the activities by the administration, commitment and dedication of the teaching and non-teaching staff, cooperation of parents and the hard work of the students, together has branded AECS-4, Mumbai as a centre of academic excellence. Our journey towards excellence continues.....

N SAHU
PRINCIPAL

ACADEMIC EXCELLENCE

CBSE Exams (Classes X&XII) 2016 Results

The results of classes X and XII mirror our efforts, dedication and sincerity towards the academics. 92 students appeared in CBSE Class X exams, out of which 43 scored A1 Grades in all subjects and CGPA of perfect 10. The Excellence Index and Quality Index were 94.5 and 8.64 respectively.

In the AISSCE (Class XII) examinations conducted by the CBSE, the number of students appeared were 86 and out of which 20 of them scored more than 90% and above marks. Ms Shriya TP topped the school with 97.8% marks, closely followed by Mast Kushagra Pandey with 97.4% and Ms Anushka Kulkarni bagged the third position with 96.2% marks. Congratulations to all the toppers.

We feel very proud and privileged to announce here that the following students got admission in IITs, NITs, IIITs, Medical Colleges and other reputed institutes.

Admission in IITs

1. Mast. Ajay P Jalgaonkar-
B Tech (CSE) in IIT Kanpur
2. Mast. Abhiraj Khanse
5yrs Dual Degree in IIT Bombay
3. Mast. Kushal Yadav-
B Tech (Aerospace) In IIT Bombay
4. Mast. Malhar Jadhav
B Tech (Mech Engg) in IIT Bombay
5. Mast. Yash Kadam
B Tech (Chem Engg) in IIT Bombay
6. Mast. Upamanyu Chatterjee
5yrs Dual Degree in Biotech & Bio-chem.
in IIT Kharagpur

II. Admission in NITs, IIITs and other Reputed Engineering Colleges

1. Ms. Anushka Kulkarni
B Tech (ECE) in VNIT Nagpur
2. Ms. Akshaya Kumar
B Tech (Chem Engg) in NIT Calicut
3. Mast. Mandeep Chakma
B Tech (IT) in IIIT Allahabad
4. Ms. Shriya TP
B Tech (CSE) in BITS Pilani, Goa Campus
5. Mast. Rituraj Biswas
B Tech (CSE) in VIT Vellore

III. Admission in MBBS in AIIMS and other Medical Colleges

1. Mast. Kushagra Pandey—AIIMS, New Delhi
(AIR-8 and JIPMER AIR Rank-1)
2. Ms. Anveshi Nayan---Seth G S Medical College,
Mumbai (AIIMS AIR Rank- 254)
3. Mast. Somesh Jain ---Kasturba Medical
College, Manipal University
4. Ms. Amrita Achuthan—Ulhas Patil Medical
College, Jalgaon
5. Mast. Devesh Rane - BKL Walawalkar Medical
College, Ratnagiri
6. Ms. Srishti Shaw—R G Kar Medical
College, Kolkata

7. Ms. G Sneha—Terna Medical College, Nreul, Navi Mumbai

8. Mast. Aditya Gopalakrishnan—CMC, Ludhiana
9. Ms. Preeti Pole- SKN Medical College and
General Hospital, Pune

IV Admission in Law

1. Ms. Nidhisa Garg—B.A., LL.B (Hons.) in NLIU,
Bhopal
2. Ms. Ayushi Pandit— B.A., LL.B in ILS Law
College, Pune

National Talent Search Examination (NTSE)

Three students qualified in the State Level NTSE, out of which the following two students have qualified in the National Level NTSE conducted by the NCERT, New Delhi and became eligible for scholarship.

1. Ms. Kota Saishree Giridhar
2. Ms. Urjitha Sharma

Prep Orientation Programme



A Prep Orientation Programme for Prep teachers of AEES was conducted in AECS-4, Mumbai from 9th to 13th May, 2016. Dr. Alpa Amin was the Chief Guest of the Inaugural function. This was the first time the Prep teachers were trained by renowned persons from SIES College, Sion, Mumbai. The Director, Smt. Vidya Satish & her team made the orientation programme very informative, educative and interesting. Shri S K Malhotra, Secretary, AEES was the Chief Guest for the Valedictory Function. Participants were greatly benefited and given away certificates

International Yoga Day

The International Yoga Day was organised under the guidance and supervision of the Principal, Mr. N Sahu on 21st June 2016 in the premises of the school. Some of the Yoga experts were invited from the BARC Yoga Club to conduct yoga for our students. Teachers & students actively participated in the programme. All the students and teachers have greatly benefitted as they become aware of the multiple benefits of Yoga.



All India Inter-AECS/JC Science, Social Science, Maths & Teaching Aids Exhibition 2016



The school level exhibition was held on 30th June 2016 in the school premises. It was inaugurated by the Chief Guest, Shri B S Shiv Prasad, Head ESD, DCSEM Department of Atomic Energy, Government of India. Dr. B.K. Jain, Chairman LMC, AECS/JC,

Mumbai was the guest of honour. There were 73 projects in Science, 63 in Mathematics and 15 in Social Science which were judged by a panel of three judges.

The **National Level Exhibition** was held at AECS, Narwapahar from 11th to 14th August 2016 where the Senior Science project entitled "Home Automation" prepared and designed by Master Prateesh R. K. of class XII A was awarded the First Prize and the Social Science project entitled "Life saving Vehicle" designed by Master J. Jesen Joel of Class VII F also bagged the first prize. The Science project "Home Automation" was presented and exhibited in December 2016 in Bengaluru at the **43rd Jawaharla Nehru National Science, Mathematics and Environment Exhibition for Children (JNNSEE) being organised by the NCERT, New Delhi** in collaboration with the Department of Education, Govt. of Karnataka, Bengaluru.



INVESTITURE CEREMONY



The Investiture Ceremony of the school was solemnised on the 30th of July 2016. This was started after lighting of the lamp, a welcome song by the school choir and the welcome speech by the Principal, Shri N Sahu. Then the Principal announced the names of the School Appointees for the session 2016-17 after which the Chief Guest bestowed the badges and sashes to the Appointees. This was followed by the Oath Taking Ceremony and speeches of the Principal and Chief Guest who highlighted the importance of discipline and different extra-curricular activities in a student's life. The prestigious ceremony ended with the National Anthem.





Workshop on Nuclear Chemistry Isotopes & Radio Chemistry



The students of Classes XI & XII had the opportunity to attend a Two Day workshop at the BARC Training School Hostel on 23rd & 30th July 2016. Renowned scientists, Dr. Tomar and Dr. Raghunath Acharya & Workshop Coordinator Dr. Alamelu conducted the workshop along with other members. Students were given hands on training to do experiments. Lectures were also given by Dr. Acharya on 23rd July, 2016. Students did experiments under the guidance of learned faculty. Dr. Das gave lecture on Radio isotopes & its uses in various field of science. He explained the uses of isotopes to detect block in heart, Cancer etc. He also spoke about chemotherapy. The session had also a Quiz conducted by Dr. R.Acharya. The students were divided into 4 groups and the questions were asked from the topics spoken, experiments & presentation. Students took active part actively & gave their feedback. Dr. S.K Malhotra Secretary, AEES was the chief guest of the function on the valedictory function.



Parent Teachers Meeting

The first Parent teachers meeting for the session was conducted on 23rd July 2016. About 78% of the parents visited the school that had a fruitful and constructive discussion about the holistic and overall development of their wards to make them better and responsible citizens in future. Many positive responses & suggestions were received.

To build a strong partnership between parents and teachers for the holistic and all round personality development of the students and to find ways to work together, to ensure the success of students in the forthcoming board examination and as well as to become successful in their life, the first Parent Teachers Meeting for the students of Senior Secondary

Classes was conducted on 20th August 2016 and another such meeting was convened on 10th December 2016. A large number of Parents attended the meetings and provided their feedback and suggestions

INDEPENDENCE DAY CELEBRATION

The 70th Independence Day was celebrated on 15th August 2016 with great fervour and enthusiasm. The programme started with the flag hoisting ceremony by the Principal, Shri N Sahu after which everyone stood in attention for the National Anthem.

Patriotic songs and scintillating dance performances by the students filled everyone's heart with patriotism. Children presented thought provoking speeches in English and Hindi highlighting the difficulties faced in achieving the independence and how we still are in the clutches of some evils like -corruption, poverty and illiteracy etc.

All the young and talented participants were appreciated for their meticulous and whole-hearted efforts with a huge round of applause.

VIVEKINI Group Singing Competition

“Music gives a soul to the universe,
Wings to the mind
Flight to the imagination
And light to everything”



The children of our school participated in the VIVEKINI Group Patriotic singing competition organized by Swami Vivekananda Education Society College, Chembur, Mumbai on 15th August 2016 where they got the following prizes:

1. Primary Group— III Prize
2. Secondary Group ---- II Prize
3. Sr. Secondary --- III Prize



All India AEES ART Competition 2016



The All India AEES Art competition 2016(School Level) was conducted on 20th August 2016 where about 925 students from Pre Prep to Class 12 participated actively and the result is awaited.

The Ministry of Power, Govt. of India in collaboration with the Bureau of Energy Efficiency conducted a painting competition on Energy Conservation on 28th September 2016. About 72 students participated in this competition, the objective of which was to create an awareness among the school children on the need to conserve energy.

All India Inter AECS/JC Zonal Debate in English

Ms. Bonobithi Biswas of XI B and **Ms. Dwitiya Chandekar** of XII A participated in the All India Inter AECS/JC Zonal Debate in English organized by the AEES on 27th August 2016 at AECS-2, Tarapur and secured the 2nd position in the Senior Category. The Junior Category was

represented by **Mast. Shubham Gupta and Suhas Sheikh** of X F who bagged the 3rd Prize.



All India Inter AECS Badminton Tournament 2016 held at Kakrapar



The students of our school participated in the All India Inter AECS Badminton held at AECS Kakrapar from 8th to 11th November 2016 and the following students from different categories became the Champions (Winners)

Under 14 boys

1. Mast. Sushant R VIII E
2. Mast Kartik U C VIII E
3. Mast Lakshya C V E

Under 19 Girls

1. Ms.Prishita Sinha XI A
2. Ms.Aastha Ramrane XII A
3. Ms. Dwitiya Chandekar XII A

Our Sportspersons Shine at the Taluka Football and Table Tennis Tournament

The Under 19 Boys Football team of the school won the Kurla Taluka Football Tournament 2016 organized by the District Sports Council. The Under 16 Girls Table Tennis of the school also became the Champion of the Kurla Taluka T T Tournament organized by the District Sports Council.

RISING CHESS STAR

Ms. Vincent Alaina of Class 5 E achieved **THIRD PLACE** and was awarded **BRONZE MEDAL** in "The 12th Asian Schools Chess Championships 2016" Category U 11 Girls, Rapid Section held in Tehran, Iran from 9 to 18 July 2016. She also achieved **Sixth Place** in the same Championships in **STANDARD SECTION**.

Ms. Alaina also secured **3rd Place** in the Hindu In School Chess Competition 2016 held at Mumbai in Junior Girls category. She was also awarded many certificates and prizes by different organizations and agencies like All India Chess federation, Bhavarlal & Kantabhai Jain Multipurpose Foundation's Maharashtra State Under 11 Girls held during 17th to 20th April

2015 at Jalgaon, 9th Mumbai Mayor's Cup International Open Chess Tournament 2016 held from 2nd to 9th June 2016, SBI Life All Maharashtra Fide Rating Chess Tournament and Maharashtra State Selection Women Fide Rating Chess Championship 2016.



Achievement of Master Adarsh Mishra

Master Adarsh Mishra of class 8 of the school has achieved **International Rank 1(One)** in the 18th SOF National Science Olympiad. He has been awarded with a certificate and cash prize of Rs. 50,000/ (Fifty Thousand Rupees) for his outstanding performance.

Achievement of Master Pratyush Sharma

Master Pratyush Sharma of class 7 has achieved All India Rank 1 (One) and won a Gold Medal and a 9-Day NASA-USA Tour worth Rs. 200000/ (Two Lakhs Rupees) for his outstanding performance in the RESO STaRT examination, a National Level Talent Search Exam, which aims to reach out, identify, reward & nurture talented students across the country which was conducted by Resonance Eduventures, Pvt. Ltd., a leading Coaching Institute based in Kota, Rajasthan

EXCURSION

With CCE aiming at all round development of the child's personality, AECS 4, Mumbai does not confine its students to the class rooms

merely but gives them an opportunity to have an outdoor experience. It was an endeavour to take them far from the madding crowd and mundane urban life to taste the flavour of rustic life. It was an amalgamation of unlimited food, fun, entertainment, games and sports. It was indeed a very refreshing experience for all the students

Excursion for Pre Prep and Prep and Primary Kids

The kids were taken on a school picnic wherein they enjoyed many rides especially suited for the young children. The students of classes I and II were taken to the Taraporewala Aquarium on 11th November 2016. It is the oldest Aquarium in India and one of the City's main attractions; it hosts marine and freshwater fishes. The renovated aquarium has a 12-foot long and 360 degree acrylic glass tunnel. Another attraction is the special pools, where children can touch fish which are harmless. The fish are kept in large glass tanks, which are lit with LED lights. The Children enjoyed the visit. The students of classes 3 to 5 were taken to Yazoo Park, Dahisar, Mumbai on 10th November 2016. It is one of the biggest amusement parks with adventure sports, fun rides, restaurants, long musical fountain, laser light show, etc. It was really a fun-filled tour as the students enjoyed very much.

Excursion to Silent Hill Resort, Virar (Classes VI-VIII)

AECS 4, Mumbai, organized its yearly excursion for Classes VI-VIII to the "Silent Hill Resort in Virar in Suburban Mumbai on Thursday, 18th October 2016.

Excursion for classes IX & X to Aqua Imagica

The students of classes IX & X were taken to Aqua Imagica, Navi Mumbai on 21st October 2016..

With thrilling rides and exciting restaurants; the children enjoyed it a lot with full fun and frolic.

Motivational Visit to NDA, Pune by Students of Classes XI&XII

The students of the senior secondary classes of the school visited the National Defence Academy (NDA) campus, Pune on 16th October 2016 where a short documentary film on the different mind blowing trainings and life of the young officers of the NDA was shown. The visit was really a great source of inspiration for all students who showed keen interest to join armed forces after class 12. The students were also taken to Agha Khan Palace, a historical place depicting the life of Mahatma Gandhi during his stay here under house arrest.. Visiting this peaceful and quite place, the students learned a lot about Gandhiji's struggle during Quit India Movement. Gandhiji was detained by the British post Quit India movement. It was here that Gandhi lost his wife and secretary and again it was here where he performed their last rites.



Children's Day Celebration



14th November, being a holiday on account of Guru Nanak Jayanti, the students of the school celebrated Children's Day with great fervor and enthusiasm on Saturday, 19th November, 2016



The School administration brought smile on every child's face by arranging a **FUN FAIR** for the children. In the fun fair, children put up food stalls and sold various kinds of foods. The game stalls became the centre of attraction for everybody as the children played different games. The children enjoyed the day with great zeal and enthusiasm.



Gender Sensitization Programme

Smt. Reena CT, TGT (PET) successfully attended and completed the Gender Sensitization Programme organized by the Administrative Training Institute, Department of Atomic Energy at V S Bhawan, Anushaktinagar, Mumbai during 15-17 November 2016



Teachers Day Celebrations



5th September being a holiday on account of Ganesh Chaturthi, the Teachers' Day was celebrated in the school on 2nd September 2016. It was celebrated with full zeal and enthusiasm under the guidance and supervision of our honorary Principal Shri N Sahu and Vice Principal Shri M S K Devarayalu. The day started with giving a tribute to Dr. Sarvapalli Radhakrishnan. The students exhibited immense energy and excitement while showcasing their talent on the stage through various activities like dance, music, mimicry and



skit. These programmes were a way to express their reverence to their facilitators. Eventually scintillating performances by the students marked the Teachers' Day celebrations and filled every mind present there with the feeling of pride and honour.

AEES Teachers' Awards for 2015-16



Mr. Jebin Joel, PGT (Physics) was selected as one of the best teachers of AEES for 2015-16 and was awarded the AEES BEST TEACHERS AWARD who was felicitated on Teachers Day Celebration organized by the AEES on 3rd September 2016. Mr. Joel has been one of the outstanding teachers in the senior secondary section and has been contributing tremendously through his selfless service. We are proud of him!

Rajbhasha



The Rajbhasha section of the school celebrated the Hindi Pakhwada and Hindi Divas with great zeal and enthusiasm. Hundreds of students participated in different competition and activities like Hindi Dictation, Hindi Grammar, Poetry Recitation, Hindi-English-Translation, Poetry Composition and Essay Writing which were conducted in the school. Many teachers also participated and won prizes in different competitions organized by the AEES as a part of the celebration of Hindi Fortnight and Hindi Divas

AEES JSO/JMO 2016

Master Shubham Gupta of Class X F and Master Tamoghno Kandar of X E participated in the All India AEES JSO/JMO 2016 conducted in AECS-3, Mumbai from 17th to 22nd October 2016. The former won the First Prize and the latter was awarded the Second Prize in Quiz and won the Sandhya G Memorial medals for JSO/JMO.

Our Students Shine in NPCIL Extempore Speech Competition

In an Extempore Speech Competition arranged for the students of classes XI & XII and organized by the Directorate of Vigilance, NPCIL, Mumbai as a part of the observance of the Vigilance Awareness Week on 3rd November 2016, Ms. Bonobithi Biswas of XI B and Ms. Dwitiya Chandekhar of XII A bagged the first and the second prizes respectively. They were awarded with cash prizes and certificates.

Vigilance Awareness week

The Vigilance Awareness Week was observed in the school in the second week of November 2016 with the endeavor to promote transparency, probity and integrity. The theme of Vigilance Awareness week was 'Public participation in promoting Integrity and eradicating Corruption'. Many students and teachers spoke strongly on how to inculcate moral values in students and how to curb corruption in public life.

National Harmony Week and Flag Day

The Communal Harmony Campaign Week was observed from 19th to 25th November 2016. 25th November, the last working day of this week, is being observed as Flag Day for raising funds to augment the resources of National

Foundation for Communal Harmony (NFCH). The school raised an amount of Rs. 6950/- (Six Thousand Nine Hundred and Fifty Rupees) from the students and staff which was sent to NFCH, Delhi, the fund of which is usually utilized for providing financial assistance to children rendered orphan or destitute in communal, caste, ethnic or terrorist violence for their care, education and training for their effective rehabilitation.



External Exams and Olympiads

About 282 students from classes 2 to 9 participated in the Mathematics examination conducted in April 2016 by the Institute for the Promotion of Mathematics (IPM), Pune. The students of classes 7 and 9 bagged the Runner Up School award in their category and the students of class 8 bagged the Best School award.

About 50 students of class 5 and 40 students from class 8 participated in the Maths Concept Exam conducted by the Brihanmumbai Ganit Adhyapak Mandal, Mumbai in July 2016. 19 students from

class 5 and 13 students from class 8 were awarded “A” Grade in this examination.

The Mumbai Science Teachers’ Association conducted the Dr Homi Bhabha Balvaidnyanik Competition on 1st October 2016 in which about 29 students from class 6 and 21 from class 9 participated. Three students from class 6—Ayanna Mandal, Pranjal Chourasia and Priyansh verma—qualified for the Level 2 and 13 students of class 9 have qualified for the Level 2. The students are Maitreyi Bandhopadhyay, Aenakshee Roy, Arpan Basu, Devesh, Mayank Jain, Aritra, Rishiraj, Akshaj, Saivikas, Aaditya, Shubham, Aditya Kulkarni and Ishita Rana.

About 465 and 171 students participated in the National Science Olympiad and National Cyber Olympiad respectively which were conducted by the Science Olympiad Foundation (SOF), New Delhi. Results are awaited.

50 students of the school participated in the NTSE 1st Level examination conducted by the Maharashtra State Council of Examination, Pune, this result is also awaited.

A Visit to Tata Institute of Fundamental Research, Mumbai

On 27th November 2016, the Tata Institute of Fundamental Research, Mumbai organized a programme named “THE FRONTIERS OF SCIENCE” in which 15 students of class IX attended it. The programme began with the welcome address given by Prof.Sandip Trivedi, Director; TIFR followed by an informal welcome by Mr. Arnab Bhattacharya, Co-ordinator of the programme. Through this programme students could get an exposure to various fields of research in

science especially by visiting the different labs. They were also informed about the various institutions of our country which provide research facilities. The students were greatly benefitted.

“Museum on Wheels

The Big Indian Toy Story”

A Citi-CSMVS outreach initiative project initiated under a special grant from the Ministry of Culture, Govt. of India, in partnership with the Citi-India and jointly organized by the BARC Staff Club, AEES and Chhatrapati Shivaji Maharaj Vastu Sangrahalaya (CSMVS; formerly Prince of Wales Museum), this museum was parked in front of the school and exhibited on 22nd November 2016. The “Educational Activities” associated with it greatly benefitted the young children in learning new things and nurturing their creativity.



School Advisory Committee (SAC)

The first meeting of the School Advisory Committee (SAC) of the School for the Session 2016-17 was held on 6th August 2016 at 11.00 AM in the SIT Room under the Chairmanship of Shri MSK Devarayalu, Vice Principal, AECS -4, Mumbai.

All the esteemed members of the Committee were present in the meeting and provided their valuable suggestions and advices on the day to day smooth running and administration of the school.

Shri Devarayalu extended a warm welcome to all the members and presented a Power Point Presentation of the Academic Results of the school for the Academic Session 2015-16 in the Primary Classes, AISSE(CBSE 10th) and AISSCE(CBSE 12th) followed by the achievements of some Class 12th students in getting admission into IITs,NITs,IIITs and AIIMS. Members presents congratulated the achievement of the students and appreciated the effort of the school.

National Cadet Corps (Boys Division) Annual Training Camp



The Second Year NCC (Boys) cadets attended the Annual Training Camps as per the following schedule.



No of Cadets	Place	Duration
15	Fulpada Dam, Virar	03.07.2016 to 08.07.2016
3	KV II- Colaba	08.10.2016 to 17.10.2016
11	Ghatkopar	13.10.2016 to 21.10.2016

NCC - Social Service Activities

i. Tree Plantation



The Cadets participated in "Greening of Maharashtra" drive and successfully planted various trees in our area i.e. Anushaktinagar to strengthen the programme which was started by the Government of Maharashtra on 01July 2016.

Mr N. Sahu, Principal, Atomic Energy Central School -4 , Anushaktinagar, inaugurated the programme and joined us in this drive. Mr Hulge M. N (Scientific Assistant), Horticulture

Section, Dept of Atomic Energy also witnessed the programme and assisted in planting trees. 76 Cadets participated in this grand event. Around 100 saplings were planted in Anushaktinagar. This programme was a great success.



Donation Collected for Cancer Care Foundation



The Cancer Care Foundation is a NGO working on cancer control (Preventive Oncology) at National level in collaboration with various academic institutions of high repute. The Main aim of this organization is to generate awareness about cancer and to provide financial

assistance to the needy cancer patients for their treatment. The NCC Boys were involved in this noble cause and collected donations for the same.



ii. Donation Collected for Communal Harmony Week (Flag Day)



EDITORIAL BOARD

1. Mr. N Sahu, Principal
2. Mr. M S K Devarayalu, Vice-Principal
3. Mr. S K Chakma, PGT (English)
- 4 Data by: Mr. Mohan Kumar, TGT (C. Sc.)