

Atomic Energy Central School-4,Mumbai

Annual Report-2023

Coming together is a beginning; keeping together is progress; working together is success.
~ Edward Everett Hale

At the outset, we take privilege in welcoming today's chief guest **Shri Joe Mohan, Associate Director, Reactor Project Group, BARC** and today's **Guest of Honour Professor Dr. P. Christopher Selvin, Registrar, HBNI, Mumbai** and **Member, Governing Council of AEES**. We are honoured to welcome our new **Chairman AEES, Shri Ranajit Kumar** on behalf of the student and staff community of AECS 4, Mumbai. It is our honour to welcome our beloved **Secretary AEES, Shri P Govardhan, Respected Shri Chandrashekar G Karhatkar, Director, Reactor Group & Chairman, Local Management Committee, AEC Schools and Junior College Mumbai, the Head Academic Unit Shri Dileep Singh, Principal Coordination Shri K. Ramachandran, Principals of all the AEC Schools Mumbai, Vice Principals and HMs, Members of LMC, SAC, PUVVN, our beacons of light, our teachers, parents, well-wishers and our dear friends!** A warm evening to everyone present here. We welcome you all to **Reflections**, the Annual Day 2023 of AECS-4, Mumbai.

We, **Saransh, Lena, Pranav, Sharon and Evelyn**, are here to present a brief report of the milestones crossed by AECS-4 Mumbai for the academic year 2023-24. Hope you would like our unique effort.

Staff Strength: AECS-4, Mumbai presently has a strong fold of 8 PGTs, 19 TGTs, 13 PRTs, 3 Prep Teachers, 3 Lab Assistants, 10 teachers on contract. We also have 2 Clerical staff in the office, 4 work assistants and 13 Multitaskers who help us run the school in a smooth manner.



This year, AECS 4, Mumbai has set new benchmarks and has set new highs, breaking all the past records with formidable scores in Class X and XII scores. Here is a quick analysis of results for the year 2022 - 23.

NEP 2020 has been implemented in AEC Schools. Accordingly, Balvatika 3 commenced on 20th June 2023. Age-appropriate admissions as suggested by NEP 2020 w.e.f Session 23-24. Three years of pre- school classes have been rechristened as Balvatika 1,2 & 3. The syllabus has been prepared by the Academic Unit of AEES in a systematic manner as per the curriculum prescribed by NCERT. In view of providing a bridge between this point and the educational journey beyond, the syllabus has been meticulously prepared and reviewed microscopically. To catch them young in order to inculcate a lifelong love for learning, concepts are introduced in playway. Play in any form is key to learning and development. We, in AECS 4 Mumbai leave no stone unturned to teach our tots the love for culture, environment, values like empathy and togetherness.

Here's a glimpse:









There were 234 **A1 Holders** in Classes **I-V last year**. You can see their names on the screen now:







Here are the names of the toppers from Class VI- IX & XI in the exams held at the school level for the year 2022-223

Here is a quick analysis of results for the year 2022-23:

Class	Section	No of Academic Prize Winners	Total
I	E	27	83
	F	31	
	G	25	
II	E	19	63
	F	20	
	G	24	
III	E	09	28
	F	10	
	G	09	
IV	E	08	26
	F	10	
	G	08	
V	E	07	35
	F	11	
	G	17	
Total number of Prize Winners			234

List of Rankholders from VI- IX for the year 2022-23

Rank	Name of the student	Class / Section	Marks Obtained	Photo	Rank	Name of the student	Class / Section	Marks Obtained	Photo
1st	PRATYUSHA ROUT	VI-G	97.92		1st	VIRANSH AGRAWAL	VII-E	97.96	
2nd	ARYA CHAVAN	VI-F	97.85		2nd	ANIRUDH SATISH	VII-G	97.88	
3rd	KAVISHA ANKUR PATEL	VI-F	97.79		3rd	SIDDHANT GHOSH	VII-E	97.82	




Rank	Name of the student	Class / Section	Marks Obtained	Photo	Rank	Name of the student	Class / Section	Marks Obtained	Photo
1st	HARSHIKA SUKHWANI	VIII-E	98.56		1st	SANJANA BAJPAI	IX-F	99.06	
2nd	PRATYASHA BARUA	VIII-F	98.50		2nd	AARUSH PATHAK	IX-G	98.57	
3rd	UTSA MANDAL	VIII-E	97.90		3rd	AARUSH SATPATI	IX-G	98.08	

In Class X results are as impressive as ever

CLASS X-AISSE-2021			
Name	School Rank	Total	Percentage
ANUSHKA PATHAK	I	494	98.8
AARAV AGRAWAL	II	493	98.6
LAKSHIKA VINOD ASWAL	III	491/500	98.2
TANISHA MONDAL			

There were 13 students who secured 100 in Class X Maths, 1 student secured centum in Science, 4 in social science and 5 in Artificial Intelligence. Congratulations to all the students for this impressive feat. I request the audience to note that the students of AECS 4 have finished 2nd in all AEC Schools in Class X in 2022.

Apart from the first three rankers, here is the list of subject toppers in class X. **You can see them on the projector screen now:**

 ANUSHA	 AARAV	 TANISHA
RANK 1 TOPPER IN ENGLISH HINDI SCIENCE AI	RANK II TOPPER IN ENGLISH, HINDI, MATHS	RANK III TOPPER IN ENGLISH MATHS

Here comes the list of subject toppers:



LAKSHIKA VINOD
ASWAL
TOPPER IN
ENGLISH
&
MATHS



UTSA
DASGUPTA
TOPPER IN MATHS
&
SO.SC



RAUNAK KUMAR
SINGH
TOPPER IN
MATHS
&
SO. SC



SARASWATHY
MOHAN
TOPPER IN
MATHS
&
AI



AKSHYA
SRINIVASAN
TOPPER IN MATHS



RAKSHIT MITTAL
TOPPER IN MATHS



NEHAL SAHU
TOPPER IN
MATHS



RUGVED NITIN
GAWANDI
TOPPER IN
MARATHI



AARUSHI MUDGAL
TOPPER IN MATHS



AOJASWINI
SINGH RAWAT
TOPPER IN ENGLISH



HARSHITA SINGH
TOPPER IN AI



DEBODUTI
CHAKRABORTY
TOPPER IN
MATHS



RIYAN KAR
TOPPER IN AI



PRANAV
DEVANGAN
TOPPER IN MATHS



NISHITA M SHINDE
TOPPER IN AI



AGGRIM SINGH
TOPPER IN
SO.SC



KUSHAL
TARANI
TOPPER IN
MATHS



MRITTIKA
CHAKRABORTY
TOPPER IN
SCIENCE



Aakanksha Srivastava Y G
AAKANKSHA
SRIVASTAVA
TOPPER IN
SO.SC

I am privileged to announce that **Master Parijat Mukherjee** of **2022-23** Batch has secured **495/500**. He is also a topper in English, Maths, Physics, Chemistry and Computer Science with **98,100,99 & 99** respectively. Master Sourajit stands II has secured **482/500**. Mandar Mahesh who has clinched the third position with **482/500** has topped English with 99%. Gayatri Rama Varma of the same batch tops Biology with an impressive **96%**. Here is a glance:

**CLASS XII-AISSCE-XII- Science-2021-22
TOPPERS**



**PARIJAT
MUKHERJEE
RANK I
495/500
96.6%
TOPPER IN
ENGLISH 99%
MATHS 100%
PHYSICS 99%
CHEMISTRY 99%
COMP. SC 99%**



**SOURAJIT
CHOWDHURY
RANK II
482/500
96.4%**






**MANDAR
MAHESH
RANK III
481/500
96.2%
TOPPER IN ENGLISH
99%**








**GAYATHRI RAMA
VARMA
TOPPER IN
BIOLOGY
96%**

Master Parijat has secured AIR 96 of the JEE (Adv.) and entered the prestigious IIT, Madras. **Master Tejas Patil** entered the most coveted elite circle of IIT, Gandhi Nagar. Both the IITans have opted for **B.Tech in Computer Science and Engineering**. **Master Sourajit Chaudhary** joined **IIT-Guwahati** in **Mechanical Engineering** stream. Here is a list of other students who have entered many other premier institutions of the country. **Megha Rajput, Sakshi Kiran Kate and Ms Nivedha Anand** have clinched MBBS seats in LATE BALIRAM KASHYAP SMRITI SH. MEDICAL COLLEGE, JAGDALPUR, CHATRAPATI SAMBHAJI MAHARAJ GOVERNMENT MEDICAL COLLEGE SATARA and PSG INSTITUTE OF MEDICAL SCIENCES AND RESEARCH, COIMBATORE, respectively.

Toppers for your View on your screens:

IIT SELECTIONS		
		
PARIJAT IIT MADRAS	TEJAS IIT GANDHINAGAR	SOURAJIT IIT Guwahati

MBBS SELECTIONS THROUGH NEET			
			
MEGHA LATE BALIRAM KASHYAP SMRITI SH. MEDICAL COLLEGE, JAGDALPUR	SAKSHI CHATRAPATI SAMBHAJI MAHARAJ GOVERNMENT MEDICAL COLLEGE SATARA	NIVEDHA PSG COIMBATORE	SAYAK SATPATI ROHILKHAND MEDICAL COLLEGE AND HOSPITAL, BAREILLY

SELECTION THROUGH NEST


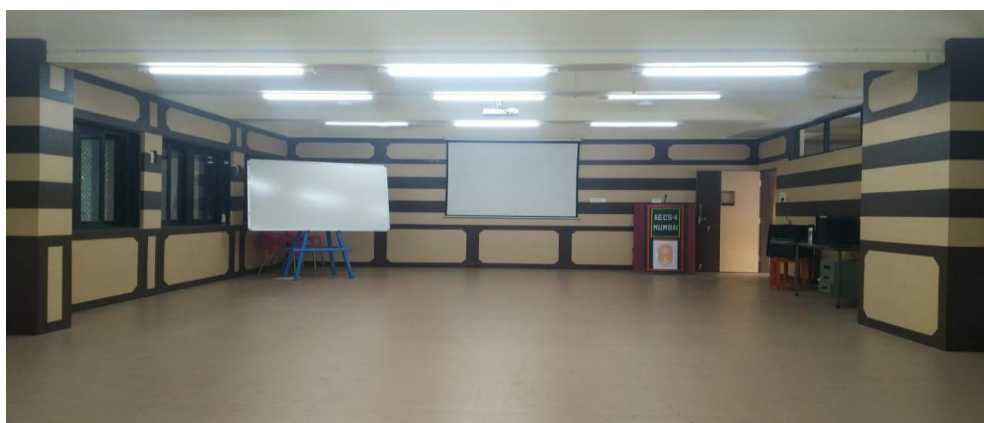
SHANTANU
KUMARE
IISER, PUNE
BS., MS., DUAL
DEGREE
PROGRAMME

Numerous students joined other prestigious institutes like **Shiv Nadar University, Amrita University, VIT and SRM** university in India. Two of our students **Naman Bajpai and Snigdha Singh** went on to clinch a seat in **Drexel University and University of Toronto** respectively.

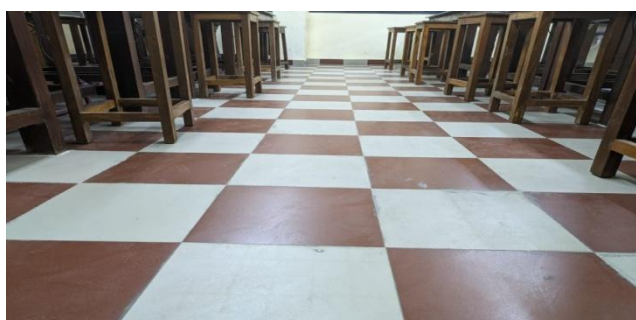


Infrastructure & Development

The school was renovated on a mammoth scale and the Satellite interactive Terminal Room was inaugurated and opened for the use of audio-visual teaching and learning.



The Chemistry has been renovated with all new floor tiles to ensure a clean and welcoming workspace for practicals.



Window mesh frames have been fit to counter monkey menace inside the classrooms.



A new sanitary napkin vending machine has been fitted in the office to facilitate student needs at times. AECS 4 has thought of new eco-friendly ways to deal with non-biodegradable material, especially soiled napkins. Take a look at the operational vendor and incinerator.



Clean drinking water was a persistent concern in schools in general. In order to alleviate the students' need for safe water, four water coolers have been installed in strategic locations. A glance:



With an ever-expanding number of students and teachers, AECS-4, Mumbai doesn't fail to leave an indelible mark in every thing it attempts to do. Here is a list of activities where our students outshined the significant others in the arena.

Junior Science and Maths Olympiads-JSO & JMO

In **Junior Science and Maths Olympiads** conducted annually in order to nurture and encourage the most happening talents of AEC Schools, **Master Aarush Satpati** of **Class X** secured the **I position** in Chemistry in **JSO & JMO** for the year 2023. He also received the **Sunil Mehta Award for Chemistry**

In the same event, **Master Aarush Pathak** clinched the **III position** in Chemistry and **II position in Quiz** in **JSO & JMO 2023**. Both the wizkids were awarded in the grand valedictory event organised on **14 June 2023**.



Two teachers of AECS-4, Mumbai, Smt. Sanghmitra P Pratape (PGT-Biology) and Mr Sudhakar Golla (PGT-Mathematics) served as resource persons in their respective subjects for JSO/JMO-2023 organised by AECS-5 Mumbai in the month of June 2023.



Inter AECS Music Meet

AECS-4, Mumbai had the privilege of organising the Inter AECS Music Meet **HANSDEHWANI**, here in Mumbai. The four day cultural extravaganza witnessed 20 member contingent representing AECS 4 in the inter AECS Music Meet held at the home pitch, **Mumbai** between 4-7 October 2023 at the DAE Conventional Centre, Anushakti Nagar, Mumbai.

Shri Alhad Apte, former **Head, Computer Division, BARC & Former Chairman and Ex- officio Secretary to Govt. Of India, National Technical Research Organisation (NTRO)** was the Chief Guest for the programme. .

The programme was presided over by **Shri Chandrashekhar G Karhadkar**, **Director, Reactor Group & Chairman, Local Management Committee, AEC Schools and Junior College Mumbai**. Main Auditorium, Mini Auditorium and the Poster Hall in the palatial DAE Convention Centre were the venues.

There were **356 participants** from various AEC Schools escorted by **52 escort teachers**. There are **170 prize winning entries** in all which includes **34 first, second, third and encouragement prizes** respectively for the senior category and junior categories put together.

The overall championship trophies based on the performance of the individual schools were presented at the valedictory event.

AECS 4, as always, did not fail to make its mark. It won the overall trophies for Juniors and Seniors in a thumping margin.

Here is a glance of winners, their positions and events::

S. NO	SENIOR CATEGORY			JUNIOR CATEGORY		
	NAME	EVENT	PRIZE	NAME	EVENT	PRIZE
1	MYTHRI MAHESH	SOLO STRING	I PRIZE	SHAYAK JOYDAR	SOLO HINDUSTANI	III PRIZE
		SOLO CARNATIC	II PRIZE		SOLO WIND	II PRIZE
2	ADISHREE DANNY	WESTERN PERCUSSION	V PRIZE	ADARSH GEORGE MATHEW	SOLO CARNATIC	I PRIZE
3	ATHARV MHATRE	SOLO WIND	II PRIZE	AMRUTA PRAJIT	SOLO LIGHT	I PRIZE

4	ANUBHAV PANJA	SOLO HINDUSTANI	I PRIZE	DRITI BHATTACHARYA	SOLO STRING	III PRIZE
5	RIYA	SOLO LIGHT	II PRIZE	ARNAV KUSH	WESTERN PERCUSSION	I PRIZE
				PRATHUSH CHAUBEY	INDIAN PERCUSSION	I PRIZE
6	JUNIOR CHOIR		II POSITION	SENIOR CHOIR		I POSITION



We acknowledge the role of Shri Nagaraj, Music Teacher for being the soul, structure and strength behind the smooth planning, conduct of programmes and the training of students.

Inter AECS/AEJC BALVYGYANIC PRADARSHANI

A school level Science, Mathematics, Social Science and Teaching Aids Exhibition was organised in AECS 4 Mumbai on 28 June 2023. It was inaugurated by the Chairman LMC, **Shri Chandrashekar Karhatkar**. Secretary AEES **Shri P Goverdhan** and former **Chairman AEES Shri V.P Venugopalan** were in attendance. They were patient enough to go through all the exhibits and added their valuable inputs regarding the students' projects. The prize winning participants represented AECS-4 in AECS-Jaduguda in the Inter AECS exhibition held on 21 November.



A group of 4 students from the secondary and senior secondary sections represented the school in AECS Jaduguda in the Inter AECS Science, Mathematics & Social Science Exhibition. The students were escorted by **Ms Parna Paul**, the newly appointed TGT-Mat/Phy.. **Ms Parnika Mishra** of Class **XI C** clinched the **III position** in **Communication & Technology** Category. Dr. Jebin Joel **PGT- Physics (SS)** was in charge of this event at the school level. Ms Parna Paul , TGT also presented a Teaching Aid on the topic **Surface Tension** on the occasion.



Art competitions

A number of art competitions were held throughout the year. Here is a list of significant achievements our students made.

Inter-AECS Art Competition-2023

S. No	Name	Class	Positions	GROUP
1	ANIKA JAIN	PREP-F	CONSOLATION II	A
2	SHRINIKA MAITY	I F	I	B
3	UTSA MANDAL	VIII E	I	E
4	ASMITA BANARJEE		III	
5	MRITTIKA CHAKRABORTY	X G	III	F
6	DEBOJYOTI CHAKRABORTY	XF	CONSOLATION II	



In a competition organised by DCSEM on 21 February 2023 at the home turf, Anushakti Nagar, Mumbai, **Kalyani Ajit Nair** and **Diksha Darshita**, both from the present **IX G** have won the **I** and the **II Prizes** respectively.



The drawings of our art barons **Ms. Pratyasha Barua**, **Ms Sneha Shivakumar** and **Ms Kalyani Ajit Nair** were selected as three of the top 30 drawings of the competition conducted by Homi Bhabha Centre for Science Education & Tata Institute Of Fundamental Research on the occasion of 8th International Conference on Women in Physics (ICWIP 2023). These drawings would find their distinguished place in the magazine published on the occasion



Pariksha Pe Charcha: A unique initiative by CBSE with PM Modi as its face, helps students come out of inhibitions surrounding exams. Two of our students **Mrritika Chakraborty** of present Class XI and **Sneha Shivakumar** of present Class X have bagged the IV & V positions respectively.



BEE (BUREAU OF ENERGY EFFICIENCY) painting competition on Energy Conservation was conducted on 31 October '23 116 students participated in Group A - 116 and 42 from Group B - 42. The total number of students participated is 158. Here is a glimpse:



Ms Utsa Mandal of 9E selected for **State Level Painting Competition on Energy Conservation 2023**. She represented the school in the State level painting competition held at SNDT Women's University , Churchgate, Mumbai. She has won a cash prize of ₹2000/-

Ms Ishika Tyagi of VIII G has been chosen one among the top three awardees in Level 1 in the flagship Poster Competition organised by the National Young Academy for Science (INIYAS) Poster Making Competition Themed **ICONIC WOMEN SCIENTISTS**



SIR JJ College of Art, Mumbai organised an Art Competition under the banner **KALAVEDH 2023** for students of various schools. **Ms. Kalyani Ajith Nair** of Class **IX G** has won the Consolation Prize and was placed in the Top 10 among 5000 participants across Mumbai.



A school level Inter AECS Art competition for the year 2023 was organised on 1 December 2023. **Shri Amit Harishchandra Kshirsagar, Shri. Bhimkirtiraj T. Sabine and Ms. Rohini Bhadarge** judged the entries at the school level.



GAMES AND SPORTS

This year was one of the glorious ones for AECS 4, Mumbai. Our Students brought home a hoard of medals in event after event. The list is very long though, we have mentioned only the DSO State and All India level competitions:

Arshia Rai - 5G, Table Tennis

Arshia Rai of 5G last year has won many laurels in table tennis at the zonal and state level. Here is the extensive list:

Tournament	Group	Medal
TSTTA Selection Trials	U-11	Bronze
State Championship	U-11	Bronze

State Ranking	U-11	Silver
1st TSTTA District Ranking	U-11	Bronze
2nd Second TSTTA District Ranking	U-11	Bronze
3rd Third TSTTA District Ranking	U-11	Gold
TSTTA District Championship	U-11	Bronze

Aadhya Paul - 6G, Chess

Aadhya Paul of present Class VI has brought home impressive achievements in Chess.

5th All India below 1600 FIDE Rated Tournament	U-11	Silver
GCH Maharashtra State Junior	U-10	5th Position

Kavisha Patel - 6G, Chess

Kavisha Patel of 6G last year, has won significant positions in Chess tournaments at the zonal, district and state levels. You can see the same on the screen.

District Selection Chess Tournament	U-14	II Position
DSO chess tournament	U-14	III Rank

Maharashtra State chess competition	U-11	Participation
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Anirudh Satish - 8G, Chess

Anirudh Satish of present VIII G has won formidable positions in **Chess at the zonal and state levels.**

Tournament	Position
MH State Senior Open FIDE Rating Selection Chess Championship	I Position
Thane District Chess Association Selection 2022	III Position
Universal Chess Foundation, Mumbai	I Position
Chheda Nagar Gymkhana – Rapid Chess Tournament	III Position
16th Inter school Rapid chess tournament	III Position
ARWA Sports Festival 2022-23	I Position
Splash 2022 chess open category, Anushakti Nagar	II Position

Vedika Kulkarni - 9G, Badminton

Vedika kulkarni of 9G last year has won many laurels in table tennis at the zonal and state level. Here is the extensive list:

Tournament	Position
Maharashtra State Open (2021)	Participation
Yonex Sunrise Sub junior Maharashtra State Open (2022)	Semi finalist
Yonex Sunrise All India sub-Junior ranking (2022)	Participation
State Open Grip up	Runners up
State Open grip up Mixed doubles	Winner
Espires State Open	Runner up

Ananya Rai - 9E, Table Tennis

Ananya Rai of 9E last year has won many laurels in table tennis at the zonal and state level. Here is the extensive list:

Tournament	Position
Mumbai inter club tournament	II Position
District Tournament	II Position
Spinart Foundation Tournament	III Position

DSO COMPETITIONS

BADMINTON - DSO District Level

Under-14 Boys & Girls

Name	Class	Group	Position
Viransh Agrawal	VII E	U - 14boys	II Position
Raghav Sharma	VII E	U - 14boys	II Position
Jenin Joel	VII G	U - 14boys	II Position
Arihant Vishwas	VII G	U - 14boys	II Position
Tashi Patil	VII E	U - 14Girls	Quarter finalists
Stuti Tiwari	VIII G	U - 14Girls	Quarter finalists
Varidhi Bhatt	VIII G	U - 14Girls	Quarter finalists
Arina	VI G	U - 14Girls	Quarter finalists

Under-17 Boys & Girls

Name	Class	Group	Position
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Ravi Kaushik	IX F	U - 17Boys	III position
Debojit	X F	U - 17Boys	III position
Shreyansh Agrawal	IX G	U - 17Boys	III position
Arnav Sharma	IX F	U - 17Boys	III position
Vedika Kulkarni	IX G	U - 17Girls	II position
Saanvi Kathi	IX E	U - 17Girls	II position
Zinniya Rana	IX G	U - 17Girls	II position
Anvi Chandra	IX E	U - 17Girls	II position

Under-19 Boys & Girls

Name	Class	Group	Position
Anant Krishna	XII B	U - 19Boys	II Position
Dhruv Chaudhary	XI A	U - 19Boys	II Position
Devansh Sharma	XI A	U - 19Boys	II Position
Divyesh Deore	XII A	U - 19Boys	II Position

Sana Pathuthara	XII A	U - 19Girls	Quarter finalists
Manya Tilara	XI A	U - 19Girls	Quarter finalists
Ishita Patil	XI B	U - 19Girls	Quarter finalists

BADMINTON - DSO District Level

Under-19 Boys & Girls

Name	Class	Group	Position
Anirudh Iyer	XII C	U - 19Boys	Quarter finalists
Ekansh Shukhla	XII C	U - 19Boys	Quarter finalists
Shakti Ravishankar	XII C	U - 19Boys	Quarter finalists
Pranav Bhujbal	XII A	U - 19Boys	Quarter finalists
Ananya Rai	IX E	U - 17Girls	II Position
Neha Gupta	IX F	U - 17Girls	II Position
Pratibha Khanda	IX E	U - 17Girls	II Position
Agni Style	IX G	U - 17Girls	II Position

CHESS - DSO Taluka Level

Under-14 Boys & Girls

Name	Class	Group	Position
Anirudh Satish	VII E	U-14Boys	II Position
Anish Gupta	VII F	U-14Boys	II Position
Ishan Kshirsagar	VII E	U-14Boys	II Position
Kavisha Patel	VI F	U-14Girls	III Position
Sai Geethika Vuppada	VIII G	U-14Girls	III Position
Trishna Roy	VI E	U-14Girls	III Position

CHESS - DSO Zonal Level

Name	Position
Anirudh Satish	II Position
Anish Gupta	II Position

CHESS - DSO District Level

Name	Position
Anirudh Satish	III Position

AII INDIA INTER AECS

CHESS

Name	Class	Group	Position
Anish Gupta	VII G	U-14Boys	II Position
Kavisha Patel	VI F	U-14Girls	II Position

BADMINTON

Name	Class	Group	Position
Tashi Patil	VII E	U14 Girls(Singles)	III Position

TABLE TENNIS

Name	Class	Group	Position
Arshia Rai	V G	U14 Girls(Singles)	I Position
Arshia Rai	V G	U14 Girls(Doubles)	I Position
Nehal Wadhvani	VIII G		
Arshia Rai	V G	U-14Girls(Team Championship)	I Position
Nehal Wadhvani	VIII G		
Tashi Patil	VII E		

Stuti Tiwari	VIII G		
Arshia Rai	V G	U-14 (Mixed Doubles)	I Position
Viransh Agrawal	VII E		

Other Prestigious Competitions

Master Kausthubh Mishra and **Master Ayan Gupta** of **Class VII** won the **III Prize** in **Written Quiz** competition and **Encouragement Prize** in **Open Quiz Category**, respectively. This competition was conducted by the Nehru Science Centre on the occasion of Moon Day celebrations.



In yet another quiz conducted by Nehru Science Centre, **Kavisha Patel** of **VII E** and **Pratyusha Raut** of **VII F** have **qualified for the semi finals** to be held in the month of January 2024. **Smt Sheeja T.M**, TGT Chem/Bio accompanied the students on both the occasions.



In the competition held on 13 December 2023 for the senior category, **Aarush Pathak** and **Stuti Tiwari** have both qualified for the **Final round** and will be representing the school in the same soon. The students were escorted by **Smt Bhaswati** TGT-Chem/Bio



CBSE Science Exhibition

Aryan Thakur of Class X G has been selected as one among the five best projects to be represented in the National Level CBSE Science Exhibition 2023-24. The competition was organised by Bharati Public School, Kharghar, Navi Mumbai on 15 & 16 December 2023. He has been mentored by **Dr Jebin Joel, PGT-Physics(SS)**. **Shri. Hemant Kumar Arjun, TGT-Mat/Phy** accompanied him for the competition.



Aviation Quiz

Aarush Pathak - 10F and **Sahishnu Pal- 10 F** have won the Aviation Quiz held in Nehru Science Centre on 9 December 2023. **Smt Balwinder Arora, TGT-Eng/So.Sc** accompanied the students for the event.



Materials and Minerals Quiz

31st Prof. Brahm Prakash Memorial Materials Quiz 2023 was organised in Kalpakkam on September 8-9, 2023 by IIM Kalpakkam Chapter, Indira Gandhi Centre for Atomic Research Kalpakkam, Tamil Nadu. Two of our students **Master Prabhuddha Basu** and **Master Adarsh George Mathew** put on a valiant show in the arena. The contingent was accompanied by Shri **Hemant Kumar Arjun**, TGT Mat/Phy.



Health Drives

AECS 4, Mumbai has organised a Health Camp in association with BARC Hospital for the students of Classes IX-XII as per CBSE guidelines from October 4 & 5, 2023. The doctors were welcomed warmly with bouquets of flowers.



ADIEU AND WELCOME

Year after year, our schools bid farewell to some of their beloved members. Here's a list of people who we bid adieu recently:

S. No	Name	Post held	Reason
1	SHRI RAMANJANEYA	VICE PRINCIPAL	ON TRANSFER TO AECS 3 TARAPUR

2	SHRI SUNIL KANTI CHAKMA	PGT-ENGLISH	ON PROMOTION AS VICE PRINCIPAL TO AECS TURAMDIH
	SHRI B.D. JOSHI	HEADMASTER	SUPERANNUATION
3	SMT INDU PANDEY	PRT (SS)	
4.	SMT SNEHAL PARAB	TGT(SS) PET	
5	SMT CAROLIN MARIYA SURESH	PRT(SS)	
6	SMT PUSHPALATA	PRT	ON REQUEST TRANSFER TO HYDERABAD
NEW ADDITIONS			
1	SHRI PRAMOD KUMAR GANGADHARAN	VICE PRINCIPAL	ON PROMOTION FROM AECS, KAIGA
2	SHRI SHISHIR BODHI	HEADMASTER	ON TRANSFER FROM AECS 2 HYDERABAD
2	MRS V. MEENAKSHI	PGT-ENGLISH	ON TRANSFER FROM AECS KAIGA
3	SMT DIPALI	TGT-MARATHI	ON FRESH APPOINTMENT
4	MS PARNA PAUL	TGT- MAT/PHY	
5	SHRI HEMANT KUMAR ARJUN		
6	SHRI SAURABH MEENA	TGT-CS	
7	SHRI ARVIND VERMA	TGT PET	
8	SMT DEEKSHA		
9	PRASAD BHAGWATRAO BHURE	PRT	
10	SHRI ABHAYKUMAR SONARKAR	PRT-SS	ON TRANSFER FROM AECS-2 TARAPUR
11	SMT GARIMA JAITLY	PRT-SS	ON TRANSFER FROM AECS-2 TARAPUR





Silver Jubilee

Smt Pratibha Sonawane and **Shri Ranjan Mohanty** completed their **25 years** of glorious service in AEES. They were felicitated on Teachers Day with a bouquet and citation as a mark of appreciation for their dedicated service.



हिंदी से संबंधित कार्यक्रम

हिंदी पखवाड़ा:

भारत सरकार द्वारा 14-15 सितंबर, 2023 को तृतीय अखिल भारतीय राजभाषा सम्मेलन का भव्य आयोजन महाराष्ट्र के पुणे शहर में किया गया, जिसमें राजभाषा से संबंधित विस्तृत जानकारी प्रदान की गई।



विद्यालय की ओर से श्रीमती किरन देवी एवं श्री चेताराम वर्मा को इस गौरवान्वित सम्मेलन में सम्मिलित होने का अवसर मिला। भारत सरकार के इन्हीं उद्देश्यों और प्रयासों को पूर्ण करते हुए हमारे विद्यालय में 14 सितंबर 2023 से 28 सितंबर 2023 तक हिन्दी पखवाड़ा मनाया गया। जिसका शुभारंभ मुख्य अतिथि महोदया डॉ. रश्मि कुमारी जी की गरिमामयी उपस्थिति में 14 सितंबर के दिन किया गया।



राजभाषा पखवाड़ा के अंतर्गत विद्यालय में कक्षा एक से दसवीं तक सभी विद्यार्थियों के लिए हिंदी प्रतियोगिताओं का आयोजन किया गया।

29 सितंबर 2023 को मुख्य अतिथि श्री अचलेश्वर सिंह, संयुक्त निदेशक, राजभाषा परमाणु ऊर्जा विभाग, मुंबई और श्री बट्टी विशाल सिंह चौहान, प्रबंधक राजभाषा, न्यूक्लियर पावर कारपोरेशन ऑफ इंडिया लिमिटेड, मुंबई, की उपस्थिति में विद्यालय में हिंदी पखवाड़ा समापन समारोह संपन्न हुआ। समारोह में मुख्य अतिथि द्वारा विभिन्न प्रतियोगिताओं में 90 पुरस्कार विजेता विद्यार्थियों को सम्मानित किया गया।



राजभाषा हिन्दी एकदिवसीय कार्यक्रम केन्द्रीय कार्यालय में 05/12/23 को प्रातः 10:00-02:00 बजे तक श्री श्याम बाबू जी के निर्देशन में कार्यशाला का आयोजन किया गया, जिसमें श्रीमती सुजाता सावंत तथा श्री योगेन्द्र कुमार ने भाग लिया।

परमाणु ऊर्जा शिक्षण संस्था के संसदीय राजभाषा निरीक्षण के अंतर्गत शिक्षण सहायक सामग्री बनाने के लिए परमाणु ऊर्जा केंद्रीय विद्यालय 4 से श्रीमती हरिनी शेट्टी मॅडम और श्री सतीश मनोहर मेश्राम सर का चयन किया गया। श्री सतीश मनोहर मेश्राम ने 15 जुलाई 2023 को गैँड हयात, मुंबई में संसदीय निरीक्षण समिति के साथ आयोजित बैठक में भाग लिया। इस संबंध में श्री सतीश मेश्राम को उच्च गणमान्य व्यक्तियों के सामने शिक्षण सहायता प्रदर्शित करने और समझाने के लिए चुना गया। संसदीय राजभाषा के तहत शिक्षण सहायक सामग्री के प्रदर्शन के लिए श्री सतीश मनोहर मेश्राम और श्रीमती हरिनी शेट्टी मॅडम को यह प्रशस्ति पत्र प्रदान किया गया है।



Events at the School Level

Investiture Ceremony:

Investiture Ceremony for the new office bearers was organised on 15 December 2023. The newly elected captains were sworn in on the day. The outgoing CCA incharge **Smt Sangmitra Pratape** handed over the charges to the new incharge **Smt V. Meenakshi**.



Ambedkar Jayanti:

A united Ambedkar Jayanti was celebrated in AECS 4 Mumbai on 14 April 2023. The members of AECS fraternity gathered in the assembly quadrangle and to pay their tributes to the great Architect of Constitution Babasaheb Shri B.R. Ambedkar.



World Environment Day:

World Environment Day was observed on 5 June 2023. As the school closed for vacation, the management team along with the NCC cadets observed it in a befitting manner by planting trees in the school premises. Here's a view:



. International Yoga Day:

Ever Since, Yoga Day was conceived and set into being a punctiliously built prompt into life and education, AECS 4 has taken it up religiously. This year, two venues had been earmarked for the unified yoga display. The students of Classes XI & XII were accommodated in the basketball court while the students of classes III- X were seated in the assembly quadrangle. In order that students get expert guidance, four eminent yoga gurus from the BARC Yoga Circle were invited for the demonstration. They navigated the students and the members of the staff throughout, as per the protocols of AYUSH Ministry, Gol. **Smt Alka Joshi, Smt Vaishali R Madave, Smt Arati Arun Aher and Smt. Jyoti Chauhan**, all of whom adorn so many feathers on their caps not only as accomplished instructors but also as naturopaths and popular yoga culturists.



National Sports Day:

The birth anniversary of Major Gyanchand, the hockey wizard of India is observed every year as the National Sports Day. Like every year, we observed the same on the **30 of August 2023**. There was an air of jubilation in the air as there was a signature volleyball match between two of our teams. The Chief Guests for the event were Dr Balwinder Kaur Sapra BARC & Ms Olivia Roberts



Independence Day:

77 Independence Day was celebrated with a great vigour. The flag was hoisted in the school premises as a mark of respect for the nation on the occasion. The Head, Academic Unit Shri

Dileep Singh and the Deputy Head Academic Unit Shri Tarun Kush graced the event. This was followed by a united Independence Day celebration at the PTTA ground wherein the students of our school put on a mindblowing street play.



Teachers Day:

Teachers Day was celebrated in AECS 4, Mumbai on 5 September 2023. The portrait of Sarvestudent-teachers donned the roles of their beloved teachers and managed the affairs of the school the whole day.



There was a United Teachers 'Day Celebration in DAE Convention Centre on 5 September 2023. The gala event saw each AEC School showcasing the talents of their staff. AECS 4 staff put on a hilarious Hindi play named **Daan ka Hisab** and another musical tribute to Team ISRO named **Chand pe Chandrayaan** by Shri Nagaraj- Music Teacher and his team of students. Both these creative endeavours were applauded by everyone in the audience: Here is a glance:



Swachhata Day:

Swachhata Day was observed on 1 October 2023 in AECS 4 religiously. The staff & students team cleaned up the classrooms and school premises extensively. This programme spanned across a week culminating on 2 October 2023.



There was a drawing competition themed **E-Waste se Raksha; Swachhata Hi Suraksha** conducted on the occasion. Here is a sneak peek:



The Makers and the Creations



And the Winners are:

TOPIC: E-Waste Se Raksha- Swachhata Hi Suraksha

S. No	Name of the Student	Class	Position
1	MOHIKA CHAKRABORTY	VI F	I
2	VAIBHAVI SANDEEP KAMBLE	VI F	II
3	SWARNIKA DHYANI	VI G	III
4	ANVI JAIN	VI G	ENCOURAGEMENT PRIZE
5	ABIR GOVERDHAN	VII F	I
6	ADRIJA PATRA	VII E	II
7	ARTA CHAVAN	VII E	III

Gandhi Jayanti:

The school celebrated the memory of the Father of our Nation in solemnity. The staff and students observed the same in a spirited manner by assembling in school to venerate Bapu. After the garlanding and paying obeisance, the staff and students marched towards PTTA Ground in silent unifications on **Prabhat Pheri as part of Swachhata Day Observation** organised by DCSEM, Anushaktinagar, Mumbai.



School 4 presented a skit titled Swast Raho! Mast Raho. This play was directed by Smt Neerja Tripathi of our school. The students of Class VIII participated in the play and drove home the point that Swachhta is the only way to be happy in this chaotic world. A Glimpse:



All the World's a Stage- The Actors and the Director

The corps of cadet of the school Boys Unit, AECS 4 under the institutional stewardship of **Shri Mohankumar B, TGT-CS** cum School NCC in charge & Band Trainer marched along the Prabhat Pheri procession as they played their band as guard of honour to the AEC Chairman and Chief Guest **Shri A.K. Mohanty**. It was an exhilarating performance by the boys and their captain on clarinet.



Sadbhavana Diwas:

Sadbhavana Diwas, the **78th Birth Anniversary** of our former **Prime Minister Shri Rajiv Gandhi** was observed with augustness on **19 August 2023**. The members of the staff took pledge to stay in harmony and to work towards maintaining goodwill in the community. There was a Unity Run conducted for the students of Classes V-VII to mark the occasion.



Vigilance Awareness Week:

The 2023 Vigilance Awareness Week is being observed from 30 October to 5 November 2023 with the theme "Say no to corruption; commit to the Nation". This week is dedicated to creating awareness in the midst of the student community. It is an attempt to counter dishonest and unethical practices. It is imperative that therefore, imperative that the public must be sensitised and motivated towards efforts at weeding out corruption.

VIGILANCE AWARENESS WEEK 2023			
ELOCUTION			
S. No	Name of the Student	Class	Position
1	SANJANA BAJPAI	X E	I
2	SWAPNALI DUTTA	X E	II
3	AARUSH PATHAK	X F	III
4	EVELEEN KAUR	X F	ENCOURAGEMENT PRIZE
SLOGAN WRITING			
S. No	Name of the Student	Class	Position
1	SHREYASI SAHOO	III G	I
2	AADHYA SHARMA	III E	II
3	MEGNA KADAM	III E	III
4	VEDANT SHUKLA	III G	ENCOURAGEMENT PRIZE
5	ESHIKA SHARMA	IV G	I
6	ANUSHREE VISHWAKARMA	IV E	II
7	SAANVI LOWANSHI	IV F	III
8	SREYAS PRAKASH	IV G	ENCOURAGEMENT PRIZE
9	HARSHIKA KOUNDAL	V E	I
10	ANVI AGARWAL	V G	II
11	REWA KALE	V G	III
12	K.V. AKSHAJ	V G	ENCOURAGEMENT PRIZE
POSTER MAKING			
1	KAVISH TRIPATHI	VI E	I
2	SHREYA JAISAL	VI G	II
3	Y AADHYA REDDY	VI F	III
4	ANVI JAIN	VI G	ENCOURAGEMENT PRIZE
5	ESHIKA KOUNDAL	VII F	I
6	ASHNA BATHULA	VII G	II
7	N AKSHADA	VII G	III

It is a matter of great pride that **Piha Devadiga** of **Class XI C** received the **I Prize** in an extempore competition conducted for the students of AEC Schools, Mumbai by the NPCIL Headquarters Mumbai. **Smt Jayashree Madhu, PRT-SS** accompanied Piha for the event.



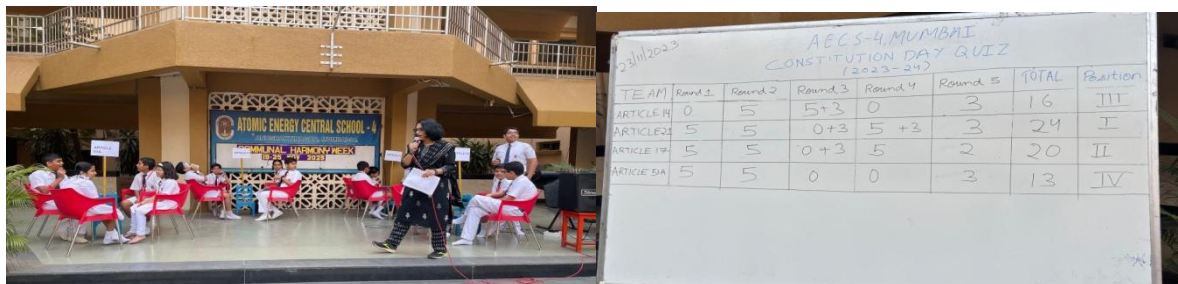
Communal Harmony Week:

Communal Harmony Week falls between 19-25 November every year. This week aims to promote brotherhood and peaceful coexistence among masses. Apart from observance, the people pledge to work for peace and national integration. The observance would surely have made impressions on the young minds of AECS 4, Mumbai. A donation drive was undertaken as part of creating awareness. A sum of ₹ 6825/- was collected which was sent to the Communal Harmony Foundation to be used for the welfare of destitute children orphaned by violence.



Constitution Day:

6 नवंबर संविधान दिवस विषय पर हिन्दी, अंग्रेजी तथा मराठी भाषा में कक्षा छठी से नवमी कक्षा तक के चयनित प्रतिभागी अपने अपने विचार व्यक्त करते हुए। श्रोता/दर्शक रूप में कक्षा आठवीं ई एफ जी के छात्र।



Mahaparinirvan Diwas:

The death anniversary of Babasaheb Dr B.R. Ambedkar was observed in pensiveness. While the school fraternity paid their homage to the great man, the students got a chance to immerse in Ambedkarian philosophy through the talks presented by students and teachers. Here is a picture of observation:



OUTREACH INITIATIVES

A Visit on National Science Day:

A group of Class IX students visited the HSBSC on the occasion of National Science Day, 28 February 2023.



Fire Safety Drill:

The Fire Drill and Demonstration held on **20 April 2023**, at Atomic Energy Central School No 4, as a part of "**Fire Service Week**,". It aimed at creating awareness among students and staff about the importance of fire safety. It also underlined the methodically safe extinguishing of fire. The drill provided an opportunity for the onlookers to understand the operational know-how of various fire safety equipment. The school management is grateful to the services of the **BARC Fire & Safety Department**. Here is a glimpse of the event:



A Day with the Topper:

There was an interactive session with the topper of Class XII Science Stream Master Parijat Mukherjee with the students of Classes XI and XII where in this humble big wheel shared his secrets for making it to the big leagues. The students of senior secondary were benefited greatly by his congenial talk.



A Stellar Move:

A once-in-a-lifetime celestial events have been taking place oftener than before. The Physics Department of AECS 4 arranged for a Sky Gazing Event for the students of Classes IX-XII on 30th November 2023 in the school premises. The students enjoyed watching Jupiter and its moons and Saturn telescopically.



RTE MEETING

A meeting for the parents of RTE students was arranged in the school premises on 30 November 2023. This meeting was chaired by the Principal Shri Santosh N Jadhav. Shri Shishir Bodhi, Headmaster and his team of primary teachers who enlightened the parents about the functionalities of the school, rules and regulations and other aspects which would need their consideration. Here is a view:



Menstrual Awareness & Personal Hygiene Campaign

A menstrual Awareness cum personal hygiene Campaign was organised for the students of upper primary and lower secondary classes on 14 December 2023. The experts from Procter & Gamble illuminated the students regarding the facts about the menarche and gave them vital lessons on personal hygiene. Here is what happened:



Awards, Achievements and Recognitions

परमाणु ऊर्जा शिक्षण संस्था, मुंबई की राजभाषा कार्यान्वयन समिति द्वारा हिंदी पखवाड़ा - 2022 के उपलक्ष्य में आयोजित मौलिक कविता लेखन प्रतियोगिता में अखिल भारतीय स्तर पर प्रथम स्थान प्राप्त किया।



नवी मुंबई नगर राजभाषा कार्यान्वयन समिति के तत्वाधान में भारत पेट्रोलियम कारपोरेशन लिमिटेड की ओर आयोजित हिंदी लेख प्रतियोगिता में श्रीमती किरन देवी प्रशिक्षित स्नातक अध्यापिका ने प्रथम स्थान प्राप्त किया। केंद्रीय वस्तु व सेवाकर एवं केंद्रीय उत्पाद शुल्क आयुक्तलय बेलापुर की ओर से संपन्न हिंदी काव्य-पाठ प्रतियोगिता में श्रीमती नीरजा त्रिपाठी प्रशिक्षित स्नातक अध्यापिका ने प्रथम स्थान प्राप्त किया। निर्माण सेवा एवं संपदा प्रबंधन निदेशालय नवी मुंबई की ओर से संपन्न हिंदी कहानी लेखन प्रतियोगिता में श्रीमती किरण देवी ने प्रेरणा पुरस्कार प्राप्त किया।



Guidance and Counselling Sessions:

A counselling session on Autism Awareness and learning impediments was organised in school on 16 September 2023.



GYAN SAMVARDHAN:

Gyan Samvardhan is a unique knowledge sharing platform initiated by the AEES to bring to the platter a variety of subjects that would benefit the students a great deal. Under the flagship of this initiative, a number of enrichment programmes were conducted. Here is a list of programmes conducted in AECS 4. All of these have been live streamed for the benefit of the AECS students outside Mumbai.

An Enrichment programme for students of IX- X on Careers in Science after +2 was organised in AECS 4, Mumbai on 15 April 2023. The programme was live streamed and the students of all AEC Schools across the country benefited greatly.

Dr. Vinaykumar and Dr Ameya Bhagwat were the resource persons on the occasion.

In yet another programme organised by the school, the former Chairman AEES, Shri V.P. Venugopalan shared his erudition on the topic 'Microbial Actors of the Filmy Dunia' on 14 August '23.



Another enriching programme under the Gyan Samvardhan initiative was held on 26 September 2023. Students of Classes XI & XII were in attendance. The guest speaker was Shri MG. Kelkar. He enlightened the students on the topic **Skills and Attitude for Education and Career in Science and Technology**



Enrichment Programmes for Staff & Students

A two day workshop on Awareness for Adolescents & Youth: A School Safety Programme held on 25th & 26th August, 2023 at Tata Institute of Social Sciences, Chembur.



A two day Teacher training workshop conducted by Royal Society of Chemistry under Yusuf Hamied Inspirational Science Programme for the Science and Mathematics teachers at the Secondary and the Senior Secondary level at AECS 4 Mumbai on 30 September & 1 October 2023. All the teachers of AECS, Mumbai fraternity participated in it. Here is a glimpse:



A team of teachers and students from AECS-4, Mumbai visited TIFR Colaba on 26 November 2023 to participate in the programme named **Frontiers of Science**. The participants included 36 Students of class X and 4 members of staff of the school namely Ms. Parna Paul, Mr. Hemant Kumar Arjun TGTs (Mat/Phy) Mr. Sudhakar Golla, PGT-Maths and Mr. Santosh N Jadhav, Principal, AECS 4, Mumbai



Smt. Sheeja T.M participated in Professional Development Vigyan Pratibha Workshop series for Science & Mathematics Teachers conducted by HBCSE, TIFR twice. Once between August 21-25 & and in the second spell between November 01-04, 2023



Shri Yogendra Kumar, TGT- Hin/San has participated in the five hours Online Training on "स्कूल और शक्षक शक्षा हेतु डिजिटल प्रौद्योगिकी द्वारा लाभार्जन करें" organized by Central Institute of Educational Technology, NCERT from 06 - 10 November.



Smt **Sanghamitra Pratape, PGT-Biology(SS)** participated in Olympiad Exposure Camp for biology teachers organised by HBCSE 17-20 October 2023.



Two teachers of AECS-4, Mumbai, **Mr Sudhakar Golla (PGT) & Smt. Kiran Devi Rajak TGT (Sel Scale)** have attended and successfully completed the “Training on Development of Online Course for State Resource Group(SRG)/ Master Trainers of States, UTs and Autonomous Organisations” conducted by CIET (NCERT) from 04-12-2023 to 08-12-2023.



The following teachers of AECS-4 Mumbai have been enrolled for **School Innovation Ambassador Training Program (SIATP)** conducted by Ministry of Education’s Innovation Cell, and AICTE in collaboration with CBSE and EMRS of Ministry of Tribal Affairs.

- 1) Shri. Uddhav Ramdas Suryawanshi, PGT (Sel. Scale)
- 2) Smt. Rajani Bala Meena, PGT (Sr Scale)
- 3) Smt. B V Rama Bhavani, PGT (Sr Scale)
- 4) Shi B Mohan Kumar, TGT (Sr. Scale)
- 5) Shri Rameshwar A Rai, PRT (Sr Scale)

Stalwarts in Campus: AECS 4 Mumbai is proud to have hosted Dr Chakraborty, Director of Nehru Centre, Mumbai on 3 April 2023.

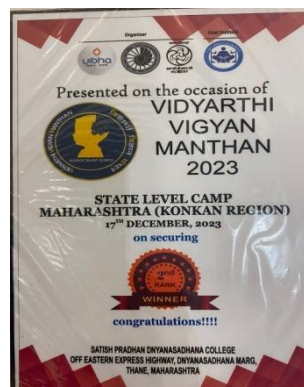


Achievers' Profile

Two students **Ananya Mitra** and **Vahin Sharma** from Class VII of 2021-22 Batch have earned coveted III position at the **District Level** in the prestigious Vidyarti Vigyan Manch(VVM) and under the stewardship of **Smt Sheeja T.M, TGT Chem/Bio. Master Siddharth Kukunuri** won a certificate for representing school at the state level after clearing the I level



Ms Aadhya Paul of Class VI E has secured the II position in Maharashtra State and got selected for the **National Level Camp** of **Vidyarthi Vigyan Manthan 2023-24**.



Ms Gargi Mishra of present Class X has won a **bronze medal** and was recognized as a **Balvygyanik** in the **Homi Bhabha Balvygyanik Science Talent Search Competition** conducted by the Greater Bombay Science Teachers' Association.



KAMP-knowledge & Awareness Mapping Platform:

In an attempt to map the scientific temperament in budding talents, **CSIR-National Institute of Science, Technology and Development Studies** conducts measurable unbiased testing to identify and promote gifted and talented students in the field of Science, Technology and Humanities across India. Three of our most promising genius kids, **Master Parijat Mukherjee, Master Siddharth Kukunuri and Ms Aadhya Paul** have made it to the national level and were awarded a cash prize of Rs. 10000/- in a grand event held in the NCR- Delhi. Our Principal **Shri Santosh N Jadhav** had been invited as a guest to the event. Here is a glimpse of the grand event:



Two of our students Ajaybir Singh Dhillon and Prabuddha Basu of Class XII A have qualified the I level of IOQM with reasonable scores.



In yet another significant feat, Master Anish Gupta of Class of Class VIII F has cleared RMO and qualified for INMO with a score of 46. It is a prestigious exam conducted by HSBSC, Mumbai.



While we have a plethora of achievers in AECS 4 Mumbai , this treasure house of genius has teacher achievers too. Apart from numerous training programmes, competitions and hours of toil in school, our teachers don't shy away from participating in challenging competitions. **Smt Balvinder Arora** participated in the **Leh Marathon** that was organised in **Leh Ladak**. She took part in the Half **Marathon Category** and finished successfully much before the cut off time.



It is well said “In every end, there is also a beginning.”. While we end formally the year of all activities- 2023, we look forward to turn a new leaf in the history of AECS 4 Mumbai with new mindset, new ideas, new achievements and all new hopes to meet new horizons. While I wind up this report for the year 2023, we hereby acknowledge the roles of all the stakeholders AEES, LMC, SAC, PUVVN and parents who were involved in making it to this point. We wish **you all a great journey ahead. Until we meet next, Goodbye and thank you for your patient hearing.**
