State Level Science, Mathematics and Environment Exhibition for Children and Gyan Mela, 2019, Assam A Report

Venue : Sreemanta Sankaradeva Kalakshetra, Panjabari, Guwahati

Date: 11 – 13th March, 2019

Organized by: State Council of Education Research and Training, Assam in collaboration with Samagra Shiksha, Assam

Opening of the Camp

Registration of the participating students and guide teachers from different districts arrived for participation in the 30thState Level Science, Mathematics and Environment Exhibition (SLSMEE), and Gyan Mela, 2019 started on the evening of 10th March, 2019. The camp of the exhibition was opened by Dr. Nirada Devi, the Director, SCERT, Assam on that evening.

DAY - I (11-03-2019) (Monday)

The three day 30thState Level Science, Mathematics and Environment Exhibition (SLSMEE), and Gyan Mela, 2019 was organized in collaboration with Samagra Shiksha, Assam at Sreemanta Sankaradeva Kalakshetra, Panjabari, Guwahati-22.

Inauguration

Shri Preetom Saikia, IAS, Commissioner and Secretary to the Govt. of Assam, Elementary Education Department, Dispur as Chief Guest, Retired Prof. Satyendra Kumar Choudhury, Samsher Singh, M. D., SSA, Assam as Guest of Honor and Director SCERT, Assam Dr. Nirada Devi were present in the inaugural function. On the outset of the inaugural ceremony, the dignitaries were felicitated with Phulam Gamosa, Mementos and a bouquet of flowers. The Director, SCERT, Assam welcomed the dignitaries, the participating students and the teachers present in the meeting and said that-

Every year state science exhibition is held along with math's, environment this year's theme was selected by NCERT regarding how science can be used in day today problems of life (scientific solutions to the challenges of life). We will select from this state level and send the selected candidates to the national level. Every year Gyan Mela and other science exhibition is organized by Sarbha Shiksha Abhijaan (SSA) Assam at the district levels. This time SCERT and SSA Assam has collaborated to organize the exhibition and in the district level exhibition was held on 28 February, 2019 and from that level the selected participants has participated in this state level science exhibition. The main motto of the exhibition is not only to achieve an award but to utilizing every natural element found in the environment by keeping in accordance with nature to lead a life of content. We need science for a better environment. We need science so that we can use air, environment and nature for our merit without harming the surrounding itself. Therefore, the exhibition is a showcase of the abilities and creative thinking of the participants in itself.

Opening of the Exhibition and Release of Souvenir "Paramanu".

After lighting the lamp by Shri Preetom Saikia, IAS, Commissioner and Secretary to the Govt. of Assam, Elementary Education Department inaugurated the Exhibition. In his speech the Chief Guests Shri Preetom Saikia, Commissioner and Secretary to the Govt. of Assam,

Elementary Education Department, Dispur said that the students from different districts across the state have participated in the exhibition with varieties of Models. In the exhibition the best model will be selected for participation in the National level Science, Mathematics and Environment Exhibition and he hoped that the students will have glory in the same. He said that the exhibition brings out the creativity in the students to develop scientific solutions through natural elements without harming the environment. As the environment is important to us we should strive to act without causing harm to it. After the speech of Shri Preetom Saikia the opening of the ceremony was done and the stalls were visited by the chief guests and judges. Right after that the souvenir 'Paramanu' was released by the Director SCERT, Assam, Chief Guests and faculty of SCERT.

Speech of Retired Prof. Dr. Satyendra Kumar Choudhury (Former Principal Cotton College, Former Director of ASTEC)

Respected Sir started his speech with a congratulatory message to the students as they are the selected students of the districts across the state. He wishes luck to the students who will be selected for the Nationals in Delhi. The significance of this science exhibition in the lives of students strives to improve it for a better future of theirs. Only through education a person can become a good citizen. The pragmatic view of education has to be given importance. To maintain the curiosity and enthusiasm and guide the students towards the right path the teachers has a very crucial role to play. Development of social skills of the students can be developed when they work in for a project with the teacher in a group they will learn the view points of others and learn through sharing experiences and also developing leadership qualities. The development of knowledge through this science exhibition is very important. Science exhibition also explores the creative talents of students. This develops the scientific spirit, attitude in students too. Science exhibition imparts in the mind of the students to develop scientific attitude towards the problem and solution of life. The students get hands on practical knowledge of the theory learnt in the classrooms about science through these exhibitions too. Participating in the exhibition helps students in developing public speaking skills also. The practice of public speaking starts from the exhibition itself and for that you need to know about the subject matter of your project.

He quoted APJ Abdul Kalam and said that he advised everyone to Dream, and to fulfill the dream with confidence while moving forward by keeping a scientific mind in focus.

He ended his speech by praising the Director SCERT for her dedicated work and wished that the students enjoy the 3 day exhibition and take our society forward with the innovations.

Speech of Samsher Singh, MD RMSA & Samagra Shiksha, Assam

This is the time of science. A time was there when the whole nation had a spiritual influence but now science has touched every sphere of human existence. In this age the youth starts their day with a smart phone. The mind of the children of this generation can easily handle any scientific machinery as this age is of scientific inventions. Scientific tools are used now in any and every field of life. Earlier communication was possible through a landline phone but now there are smartphones in everyone's hand. The education department has thought to contact the Assam Science Society to create a Science Cell in every school. A teacher would be the head of the cell. In the cell discussions related to science must be there from time to time with the students of all streams of subject so that all of them are attracted towards Science. Simultaneously the villagers residing near the school would also be aware about science through the students so that they know the difference between superstitions and reality. With our united efforts we can develop Assam into a scientifically progressive state.

Vote of Thanks by Lakshmi Kanta Das, Joint Director, SCERT, Assam

Vote of thanks to Dr. Satyendra Kumar Chaudhury key note speaker of the inaugural program, to Dr. Nirada Devi Director SCERT, Assam. Thanks to also the Education Minister of Assam even though he couldn't be present due to political reasons. Thanking Director of Elementary Education, Assam. Thanking Samagra Shiksha Mission Director Samsher Singh, IAS. Thanking the media persons who have helped in publicity for the last one month, the Sankardeb Kalakhetra Society and also the people who have helped in the decorations of the exhibition. Vote of thanks also to the persons of the Department of Disaster Management present in the exhibition.

Extempore Speech:

In the afternoon an Extempore Speech competition was organized among the students on the topics related to the exhibition. Three best participants were selected for award.

Quiz Competition

In the afternoon a Quiz competition was conducted among the students. A good number of students took part in the competition. The entire competition was led by Sri Raktim Baishya, Biswajit Sarma as the Quiz Master.

The theme for SLSMEE 2019 and also for the Gyan Mela with parity with the theme for Jawaharlal Nehru National Science, Mathematics and Environment Exhibition for children 2019 would be "Scientific solution for challenges in life" pertaining sub-theme such as:

- Agriculture and organic farming
- Health and cleanliness
- Resource management
- Waste management
- Transport and communication
- Mathematical modeling

Participation

The schools from 11 districts and 83 students with 53 guide teacher took participation in the exhibition. Altogether 93 models were exhibited in the exhibition. The list of the names of the students, schools, models, districts etc. are enclosed at the end of the report.

DAY – II (12-03-2019) (Tuesday)

Speech of Dr. Rabin Dutta, Professor Tezpur University

The topic of his speech was 'Water Management'. Arsenic and Fluoride is found in many areas of Assam. In Tezpur University's Department of Chemical Sciences laboratory two very less costly methods were developed to remove arsenic and fluoride from water. On these two methods two patents were also achieved, viz., Arsiron Nilogon (Patent No. 280737), Feb, 2017 and Flouride Nilogon. The main property present in water is found in earth only and not in any other planet. In water hydrogen and oxygen forms a chemical bond. And there's also a weak bond between the hydrogen and oxygen which is called the hydrogen bond. Because of this bond and the constituent of the water and molecule there are some special properties of water. Water droplets are circle in shape because of the surface tension. Water can dissolve most of the objects which makes it more special among all the other liquid elements of earth. 2/3rd of Earth's surface is covered by water. 4 billion years ago the life of beings came into existence through Water. We are dependent on water on a daily basis, if the

equilibrium of water gets disturbed there's a huge chance of the destruction of earth. Almost 70% of all the water present on earth is oceanic water, 27% is under the earth which is not usable too. Only some areas like Assam, U. P, Bangladesh the water under the earth can be consumed. Nowadays, some methods are created like R. O. (Reverse Osmosis) that takes out the saltiness of the water along with its minerals. The water of Assam has very less minerals. The TDS (Total Dissolved Solid) present in water should be 200-300 milligrams per litre. But in Assam's water it's less than that, so when R. O. is done the TDS comes under 50. If the TDS comes under 100 milligrams per litre it's not good for consumption. The R.O in households removes the TDS from 100 and kept in 40 TDS. Because of this children's growth and health can deteriorate. Aged people can also have cardiovascular problems. Only 2%-3% of freshwater is there that is found in the ice sheets of Antarctica, Siberia, Greenland, Everest, and Northern Canada and the TDS present there is Zero. To have the water from there is impossible for us. The water that we can consume is from river, rain water and of lakes and ponds. The water present here is only 1% of the total on earth. Every person is responsible to save the earth. The most dangerous assumption of human kind is the thought that somebody else is there to save the earth. But everyone individually is responsible to save the earth.

People can produce food and energy through many ways but water cannot be produced by any means. As water is very limited, we have to use it judiciously, re-use, take out the pollution and waste from the water and make it usable again. We can use ground water through wells and ponds. Deep tube well water has arsenic and fluoride. Hojai, Karbi Anglong (East& West) has fluoride in their water. In most of the places of these areas when deep tube well is constructed fluoride is found. Because of fluoride the teeth deteriorates and bones becomes deformed. Out of all the districts in Assam except Tinsukia and the already mentioned districts Arsenic can be found. Guwahati's water has fluoride (200-350m) in it. The Fluoride should be less than 1.5 milligram per litre but its more and has no arsenic in it. the amount of fluoride in water hasn't adversely affected the health of people yet the reason being that the food consumed by people in the city are nutritious enough to tackle the fluoride consumed through water. But slowly this water can affect too. The south-east part of Guwahati's ground water should be used carefully and if fluoride is found then should be filtered and used. Using river water is also advisable. Simple sand cement filter can be used in Assam. If iron is found in heavy quantity in the water then while making tea the colour becomes blue. The reason of the blue tea is that it contains polyphenolic organic compounds

which react with the iron present in the water and thus the color blue appears. The arsenic present in water contains more capacity than tobacco to cause cancer.

From 1975 till now in the village of the Professor there have been 30 deaths due to cancer. In a village in Nalbari called Balitara there in 3 years 25 people has died due to cancer. in Assam the government has taken a good initiative by increasing the number of medical colleges and also implementing 19 cancer hospitals in collaboration with TATA Trust. A much better way to cure cancer was by finding the reason of cancer itself. Selling tobacco, alcohol can be stopped completely. In Karbi Anglong's Ranganthir and Theroni fluoride removal work (Fluoride Nilogon) is in progress. An NGO 'Art of Living' has themselves used the method in Karbi Anglong's 6000 families and 50 schools to remove fluoride. Arsenic removal techniques have been made in Majuli through the Chief Minister's fund. 400 filters were established there. The Department of Science & Technology, Central Government has a crore rupees fund under which they have bought many instruments that detect arsenic.

The two methods Arsiron Nilogon & Fluoride Nilogon if the water is deep tube well then the arsenic and fluoride are very high. Only a minimum cost of a filter Rs. 300/350 will be spent while making it to remove arsenic. Three chemicals are used for the treatment- cooking soda, potassium carbonate, and iron solution. The container used should be plastic or earthen and two taps are required. Within 1 or 2 hours the sedimentation occurs and in it the arsenic goes to the bottom. Then the surface water can be filtered through any means. To remove fluoride the expenditure is a bit more because the container is bigger. The drum is filled with crushed limestone and it's filled with water and in it a bit of phosphoric acid is given. The phosphate dissolves in the water. The cost to make the filter is Rs. 600. The students can learn this type of techniques where the arsenic and fluoride is found. From Dhubri to Jonai there is Arsenic except Dibrugarh and Tinsukia. Awareness of purifying the water is really important for the people of Assam.

Cultural function:

In the evening, a cultural program was arranged. Students performed dances, sang songs, etc. The staffs of SCERT, Assam also joined in the function. Photographs of few moments have been given at the end.

DAY – III (13-03-2019) (Wednesday)

The day's activity started as per the scheduled time.

Art Competition:

In the morning an Art competition was conducted among the students. A good number of students took part in the competition Ananta Gogoi Senior Lecturer Art Education, DIET Titabor Assam, Horojyoti Sarma, Artist were the judge of the competition. Out of the participant students, 3 best students were selected for conferring the prizes.

Valediction Ceremony

In the valedictory function Dr. Nirada Devi, Director, SCERT, Assam, Dr. A. K. Srivastava, Head, Department of Education Research and Policy Perspectives (DERPP), NCERT; Dr. Ratul Rajkhowa, Professor, Department of Zoology, Cotton College (Retd.); Dr. Pannalal Goswami Professor, Department of Chemistry, Cotton College (Retd.); Dr. Chandra Rekha Mahanta, Associate Professor, Department of Mathematics, Guwahati University; Dr. Shantanu Baishya Associate Professor, Department of Physics, Cotton University, Sri Joydeep Barua, Head I/C, Environment Division, ASTEC, Dr. Sushmita Sutradhar Das, Deputy Director, SCERT, Assam SCERT, Assam jury members for selection of the model were present. The Director, SCERT, Assam appreciated all the teachers and students for making the exhibition a successful one. She said that-

A person doesn't become a scientist only by applying science but appropriate usage of science creates a scientific mind. The students with a scientific mind should move forward for the development of the society. An advice to the rising scientists is to use natural organic manure like earthworms in their village cultivation. The mind set with which the students have moved forward to save the environment, the same should be applied in their own village. Like the problem of Arsenic and Fluoride in water of our region has been removed by a scientist from Assam itself; there are many other issues in the villages which should be researched and can be tackled by the creativity of the students.

Speech of Sri A. K. Srivastava, Head, Department of Education Research and Policy Perspectives (DERPP), NCERT:

The presentation given by such little children is commendable. At such a small age the children are able to speak with such courage and enthusiasm that elder's lack. The children's have crossed different stages and reached the state level which is a great achievement in itself. The most difficult work is the declaration of results. But the models which won't get

selected will not mean that they were bad, important are the efforts and the continuation of it. The efforts shouldn't be based on one science exhibition or the next they should be always on the theme of it. If there are some new projects done by the school, those can be sent to the NCERT to publish in their journal "School Science" so that everyone may know of the achievements. The teacher should act as a facilitator only, they shouldn't make the models, the students should do it themselves and understand it. These children will make a new future so they should be nurtured by supporting their ideas. It's the responsibility of the teachers to show them the path of greater achievements. All the students that participated in the exhibition are winners and the passion with which they made the models that passion should always be ignited in their minds with which they can make the world a better place.

Speech of Dr. Pannalal Goswami Professor, Department of Chemistry, Cotton College (Retd.):

The students should always strive to make the projects themselves. Whenever students try to make something fruitful they should always try to put their own mind set for the success of the project. If the models presented are copied directly from what's written in the book then there won't be any credit of the ones who made it. If a simple project is also made out of the students own creativity then that is also commendable. Congratulations to all the students present in the exhibition who presented the projects with such vigor. Students should try to have a scientific mind and lessen the effects of superstition in the villages.

Selection of Models displayed by Students:

The models of the exhibition were observed by the jury comprised of six (6) no. of judges for selection. They are Dr. Ratul Rajkhowa, Professor, Department of Zoology, Cotton College (Retd.); Dr. Pannalal Goswami Professor, Department of Chemistry, Cotton College (Retd.); Dr. Chandra Rekha Mahanta, Associate Professor, Department of Mathematics, Guwahati University; Dr. Shantanu Baishya Associate Professor, Department of Physics, Cotton University, Sri Joydeep Barua, Head I/C, Environment Division, ASTEC, Dr. Sushmita Sutradhar Das, Deputy Director, SCERT, Assam jury members for selection of the model were present.

Three models from each sub theme were selected for sending to NCERT, New Delhi for selection in the Jawaharlal Nehru National Science, Mathematics and Environment Exhibition to be organized by National Council of Educational Research and Training, New Delhi. The sub theme wise selected models and names of students are as follows –

Sub-theme	Position	Name of students	Class	School name	District
Waste	First	Anup Chetry	VIII	Balijan Borjan ME	Tinsukia
management		Manash Pratim Dutta	VII	school	
J	Second	Chitralekha Sonowal	VI	Arunodoi Janajati ME	Dhemaji
		Muhima Sonowal	VIII	School	J
	Third	Rohit Konwar	VIII	Pub Sadiya ME school	Tinsukia
		Jyotiraj Gogoi	VIII		
Resource	First	Fajlul Bari	IX	Adarsha	Nalbari
management		Murshidul Alam	VIII	Vidyalaya,	
Ö		Sarkar		Barkhetri	
	Second	Jishu Saikia	XI	Kherajkhat Sr, Secondary	Lakhimpur
		Jadumoni Neog	XI	school	
	Third	Md. Ubadulla	XI	Pandit Deendayal	Karimganj
		Tapadar		Upadhyaya Adarsh	
		Monjurul Hasan	XI	Mahavidyalaya	
	Encoura	Rahul Ali	VII	Samaguria Rajamoidam	Sibsagar
	gement	Midusmoy Gogoi	VII	ME school	
Agriculture	First	Barsha Nath	VII	Dudhpatil MV school	Cachar
and organic		Deepshikha Nath	VII		
farming	Second	Khursida Begum	VIII	Dolgaon Girls'M E	Darrang
8	2000114	Alkija Begum	VIII	school	2 unituing
	Third	Jagriti Gogoi	VII	Konwaupur Boys' MV	Sibsagar
	111110	Priya Buragohain	VII	school	Biobugui
Health and	First	Pintu Dey	X	North Lakhimpur Town	Lakhimpur
cleanliness		Rekibuddin Haque	X	High school	F
	Second	Bishaljyoti Borah	VI	Progoti ME school	Jorhat
		Debashuish Borah	VII		
	Third	Rimjim Bora	VIII	PG Hariteron High	Nagaon
		Limpimoni Thakuria	VIII	School	
Transport	First	Rajdeep Sarkar	VIII	Aurobindo Bidya Niketan	Sonitpur
and		Sumit Sen	VIII	High School	
communicati	Second	Ritom Borah	VIII	Janaki chamahiya Ati	Majuli
on		Bikash Pegu	VIII	Model HS schol	
	Third	Mangala Biswas	VIII	Dikhlem ME school	West
		Sukla Biawas	VIII		Karbi-
					Anglong
Mathematical	First	Begum Shahin	VIII	Nagabandha Girls' ME	Morigaon
Modelling		Ahmed		School	
		Begum Farhana Ahmed	VIII		
	Second	Abdul Wazid	VI	Tezpur Govt. HS school	Sonitpur
		Dhritishman Das	VI	1	•
	Third	Masud Alom	VIII	Panchagaon High School,	Bongaigao
		Khandakar		Boitamari	n
		Yasin Sheikh	VII		

In addition to this, the students who were selected in Quiz, Art, Ex-tempore Speech competition were also conferred trophy.

Extempore Speech

Position	Name of the Students	Name of the School
First (1st)	Tomzida Begum	Kasturba Gandhi Balika Vidyalaya, Darrang District
Second (2 nd)	Niharika Goswami	Dergaon Girls' H.S. School, Golaghat District
Third (3 rd)	Prasenjit Nunisa	Diyungbra High School, Dima Hasao

Art Competition

Subject : Preventing Soil Erosion

Position	Name of the Students	Name of the School				
First (1 st)	Kuwali Das	Rajkadamtal Balika Vidyapith High School,Nalbari District				
Second (2 nd)	Nabajit Saha	Abhayeswari H.S. & M.P. School, Bongaigaon District				
Third (3 rd)	Dhritishman Das	Tezpur Govt. H.S. School, Sonitpur District				

Quiz Competition

Position	Name of the Students	Name of the School
First (1st)	Sanskriti Pathak	Dergaon Girls' HS School, Golaghat District
Second (2 nd)	Ritom Bora	Jonaki Chamahia Ati Adarsha HS School
	Namrata Hazarika	Ratanpur Balika Madhya Engraji Vidayalaya, Majuli

Vote of thanks:

The exhibition was winded up after delivering a valuable and encouraging speech with vote of thanks offered by L.K. Das, Joint Director, SCERT, Assam.

Few moments of the exhibition:



29th State Level Science, Mathematics and Environment Exhibition, 2019



Shri Preetom Saikia, IAS, Commissioner and Secretary to the Govt. of Assam, Elementary Education Department, Dispur lighting the lamp of the exhibition



Shri Preetom Saikia, IAS, Commissioner and Secretary to the Govt. of Assam, Elementary Education Department, Dispur delivering his inaugural speech



Dr. Nirada Devi, Director, SCERT, Assam delivering welcome address



Dr. Nirada Devi, Director, SCERT, Assam, releasing the souvenir "Paramanu" in presence of the dignitaries



Speech of Dr. Satyendra Kumar Choudhury (Former Principal Cotton College, Former Director of ASTEC)



Opening of the stalls



Speech of Samsher Singh, MD RMSA & Samagra Shiksha, Assam



Shri Preetom Saikia, IAS, Commissioner and Secretary to the Govt. of Assam, Elementary Education Department, visiting the stalls



Speech of Prof. Robin Dutta on 'Water Management', Department of Chemical Sciences, Tezpur University



Judges visiting the stalls



Sri A. K. Srivastava, NCERT, Delhi, visting the stalls



Speech of Sri A. K. Srivastava, NCERT, Delhi



Model Exhibited by Students



Model Exhibited by Students



Model Exhibited by Students



Model Exhibited by Students



Model Exhibited by Students



Art competition of the participants



Art competition of the participants





Cultural programme



Quiz competition



Cultural programme



Extempore speech



List of Sub-Theme wise names of Participants, Name of the School, Model they exhibited and Districts

Sub-theme wise list of the participants in the 30th State Level Science, Mathematics and Environment Exhibition, 2019

Sl. No.	Sub theme	Name of Model	Name of the Students	Name of School	Class	Name of District
1.	HEALTH & CLEANLINESS	Smoke and Dust Absorber Machine	Alakesh Kalita Akaash Das	Pakhamara ME School	VIII VIII	Baksa
		ÃõÉ¿M•Ã ¦¤±¦šÉ Ý Âó¿1©"±1 Âó¿126i§î±îÂ â1n¸»± Õ±¿ýÃÃù±Ë1 Âó±òÏ ¿Ãõq¿XßÁ1í	Namashya Mohan Aaichengpha Boruah	Navajyoti ME School	VIII	Charaideo
		Health and cleanliness ¦¤±¦šÉ ÛÂõÑ Âó¿1©"±1 Âó¿126i§î±	Sushmita Paul Sanchita Basak	Kaldoba High School	VIII	Dhubri
		Section diagram of human heart ÷±òÅýÃÃ1 ýÃ+đÃûLa1 ÎåÃđÃò	Aparajita Deb Nath Dibyajyoti Deb Nath	Teli Basti MV School	VII	Hojai
		Developed System of Traditional banana ripening	Bishaljyoti Borah Debashish Borah	Progoti ME School	VI	Jorhat
		Remedy of Air Pollution	Sania Nasrin Abdul Khalek	Hemanta Baruah Bidyapith ME School, Notboma	VIII	Kamrup (M)
		Air Pollution	Rimjim Bora Limpimoni Thakuria	P.G. Hariteron High School	VIII	Nagaon
		Îü±í±1n¸ áåÃ1 Âó±ËîÂË1 ßÁù ÂóËßÁ±»± ÂóX¿îÂ	Kuwali Das Himashree Das	Rajkadamtal Balika Vidyapith High School	X IX	Nalbari
		Vacuum Cleaner	Pintu Dey Rekibuddin Haque	North Lakhimpur Town High	X X	Lakhimpur

		School			
à±đÃÉ Âó1n¸»± >¶¿îÂË1±ñ1 üýÃÃæÃ ëÂ×Âó±ûþ	Dolly Chetia Dipshikha Chetia	Nakari School	MV	VIII	Dibrugarh
ëÂ×¾±»ò					

2.	AGRICULTURE AND ORGANIC FARMING	1±ü±ûþ¿òßÁ ü±11 Âó¿1ÂõËîÇÂ ÆæÃ¿»ßÁ ü±11 >¶Ëûþ±á	Sudipta Kr. Das	Girish Vidyapith Spl. High School	VIII	Baksa
		Effect of uses of chemical fertilizer and organic fertilizers: a study	Barsha Nath Deepshika Nath	Dudhpatil MV School	VII	Cachar
		ýÃñýÃÃ ßÅÁßÅÁ1±	Murshida Khatun		IX	
		Âó±ùòî ÷±åÃ1 Âõ±ßÁ¿ù1 ÂõÉ»ýÃñ1 î±1 ÆæÃ¿»ßÁ ü±1 >¶dîÂ	Tomzida Begum	Kasturba Gandhi Balika Vidyalay	X	Darrang
		ßÁ÷ ê±ý×ÃÃîÂ Õ¿ñßÁ ëÂ×ÈÂó±đÃò ßÔÁ¿ø¸ÂóX¿îÂ	Khurshida Begum Alkija Begum	Dalgaon Girls ME School	VIII	Darrang
		Õ±÷±1 ÎäÂÌÂó±ú1 Þø¸¿ñ ëÂ׿¾ÕÃü÷ÓýÃÃ	Jitumoni Bharali Rupan Bhuyan	Bishnupur Takjuri High School	XI	Dhemaji
		Organic Farm	Abdul Jolil Shohidul Islam	Jamduar Public ME School	VIII	Dhubri
		Advanced Farming Technique	Pushan Das Sudip Chanda	Chandypore ME School	VIII VI	Hailakandi
		ÎßÁäÅÂü±11 >¶dî >¶í±ùÏ	Dipankar Saloi Uddipa Das	Malaybari Balika Vidyapith ME School	VIII	Kamrup (M)
		ÂõÏæÃ ¿üÒä± ûLa	Deepjyoti Kalita Sintu Kalita	Pacharia K.K. High School	VIII	Kamrup (R)
		Animal Husbandary	Ankit Shah Abbas Ali	Navajyoti ME School	VIII VIII	Kokrajhar
		Krishi ebong Joibo Farm (Khamar)	Priya Das Monisha Das	Netaji ME School	VIII	Karimganj
		æÃÏ»ò1 >¶Qɱý3Ãñò1 ÆÂõ:±¿òßÁ ü÷±ñ±ò	Labanya Ligira Gargi Changmai	Uttar Kathani ME School	VII	Lakhimpur
		Bio Fertilise in Agriculture	Afrida Rahman Hina Das	Puranigudam Girls' High School	VIII	Nagaon
		ÆæÃ¿»ßÁ	Vergob Bhattacharyya	Madhab MV School	VII	Nagaon

		ßÔÁ¿ø¸ÂóX¿îÂ	Anamika		VI	
		DONCH' HOYCIA	Hazarika		V I	
		ÎßÁäÅ ü±1	Jyotirmoy		VIII	
		IISAAAA ULI	Deka	Binapani High		
			Hirakjyoti	School	VIII	Nalbari
			Thakuria			
		Incubator	Jagriti Gogoi	Konwarpur	VII	
			Priya	Boys MV	VII	Sibsagar
			Buragohain	School		
		Traditional	Poli Boruah	K.K. High	VI	
		Medicinal Plants of	Debajani	School,	VI	Lakhimpur
		Shakuakhana Assam	Saikia	Ghilamara		
		Germination of seed	Borasha		XI	
		using local manure	Hazarika	Madhabdev		Lakhimpur
			Himashree	Academy	XI	Lakiiiiipui
			Saikia			
		Integrated Farming	Deshbhakta	Sidalsati HS	X	
		System	Doley	School		Bongaigaon
			Parag Ray	5511001	X	
3.	RESOURCE	Non Conventional	Dhritiraj	Sri Sri	VIII	
	MANAGEMENT	Energy Source	Shivam	Manohar Dev	-	Barpeta
			Kangkan	HS	VI	Zarpota
			Barua		***	
		Renewable Energy	Ujjal	Kharadhara	IX	
		Resources	Swargiary	Kali Mandir	*7	Barpeta
		(Emergency Manual	Hrishikesh	High School	X	
		Generator)	Kalita	-	VIII	
		Water Level Indicator	Jahanara Azmiri	Sonajan Naba	VIII	
		mulcator	Mafida	Shakti Girls'	VIII	Barpeta
			Khatun	MEM	V 111	
		Jute Fibre	Susomoy Deb	Chaitanya ME	VII	
		1 3.00 1 1010		School	,	Cachar
		Hydraulic Robotic	Jatinga	-	VIII	
		Arm	Basumatary	Bhiranggaon		CI.
			Manek	High School	X	Chirang
			Basumatary			
		Power Based	Mridu Deka	Burha	IX	
		Automatic Spinning		Lokapriya		Domeses
		Machine		Bordoloi High		Darrang
				School		
		Automatic Street	Rasidul	Adarsha	VIII	
		Light	Hussain	Vidyalaya		Goalpara
			Tanuj Singha	v idyalaya	VI	
		Âõ1ø¸Åí1 Âó±òÏ	Nizamuddin		VIII	
		üÑ1ŽÂí Õ±1n,	Laskar	Bamungaon		
		ý×ÃÃûþþ±1	Samsuddin	MEM	VIII	Hojai
		ÂõÉ»ýÃñ1	D		T7TTT	
		Barokhunar Pani	Prasurjya	Deals NY-1- 1	VIII	
		Hongrokhon Kori Stithi Shaktik Goti	Pratim Gogoi	Pub Nakachari	17111	Jorhat
		Stitni Snaktik Goti Shaktiloi Paribartan	Amlanjyoti	High School	VIII	
			Gogoi	Kasturba	VIII	Vammin
		Rain water	Laily Parbin	Nasturda	VIII	Kamrup

	harvesting and	Ahmed	Gandhi Balika		(R)
	organic farming	Amina	Vidyalaya,	VIII	(==)
	3	Begum	Goroimari		
	>¶±ßÔÁ¿îÂßÁ	Chayasri	Dhopatari	VIII	
	ü¥óðÃ1	Lahkar	Silbharal High		Kamrup
		Bishal Lahkar	School School	IX	(R)
	ÂõÉ»¦š±Âóò±				
	Hydraulic Pressure	Mintu Chutia	P.B.	VIII	Kamrup
		Mridul Haque	Daulpukhuripar	VIII	(R)
	.	Choudhury	High School	* ****	
	Projector	Yubraj		VIII	
		Bahadur	Harinaguri		77 1 '1
		Chetry	High School	X 7 X	Kokrajhar
		Naba Jyoti		VI	
	W7: 4 111	Rabha	T D :	XZIII	
	Windmill	Rakesh Hanse	Jeng Rongpi	VIII	Karbi
		Orbison	English High School	VIII	Anglong
	Smart Home	Ronghang Ubadulla	Pandit	XI	- -
	Smart Home	Tapadar	Pandit Deendayal	ΛΙ	
		Monjurul	Upadhyaya	XI	Karimganj
		Hassan	Adarsha	ΛΙ	Karinganj
		Tassan	Mahavidyalaya		
	Molasses for Bhim	Rimjhim	Kherajkhat	XI	
	Banana	Saikia	Senior	211	
	241111111	Tinamoni	Secondary	XI	Lakhimpur
		Bhuyan	School	***	
	Power Generator	Jishu Saikia	Kherajkhat	XI	
	through Domestic	Jadumoni	Senior	XI	T 11'
	Dense	Neog	Secondary		Lakhimpur
			School		
	Wind Energy Street	Josek L	Retzawl ME	VIII	Dima
	Light	Tuolor	Retzawl ME School		Dima Hasao
		Iris L Bapui	SCHOOL	VIII	114840
	A part of a smart	Ashif	Adarsha	VIII	
	city	Rahman	Vidayalaya,		Morigaon
		Ashfaqur	Moirabari	VI	Mongaon
		Rahman			
	Âõ±òÂó±òÏ	Kankana Devi	Data a Cita	VII	
	Õ±áæÃ±òòÏ1	Namrata	Ratanpur Girls' ME School	VIII	Majuli
	Õ±ċýÇÃÃ	Hazarika	IVIE SCHOOL		-
	ÕËé±Ë÷¿éÂßÁ	Gobindra		VIII	
		Muchaha	Fulkuchi ME	4 111	**1.
	Âó±òÏ Îî±ù±	Tara Gorh	School	VIII	Udalguri
	÷éÂ11 Õ±¿ýÇÃÃ	Tara Com		7 111	
	üŦ¤±¦šÉ1	Bedanga		VIII	
	Âõ±ËÂÕ ßÁù	Borphukan			
		Kalpajit	Jalbhari ME	VI	Lakhimnur
	Õ±1n, ý×ÃÃûþ±1	Chetia	School		Lakhimpur
	ÂõÉ»ýÃñ¿1ßÁ				
	¿ðÃú				
I [Wetland	Purabi	Sankardev	XII	
	wettand	1 urabi	Ballkardev	7111	Lakhimpur

		Joysree Saikia		XII	
	æÃ±÷DZòÏ	Rahul Ali		VII	
	Âó±îÂ1 ÁZ±1±	Midusmoy	Samaguria	VII	
	÷ýÃà ÎàËðñ»±	Gogoi	Rajamoidam		Sibsagar
	,		ME School		
	Õ±¿ýÇÃÃ				
	Security	Fajlul Bari	Adarsha	IX	
	enhancement using	Murshidul	Vidyalaya,	VIII	Nalbari
	solar energy	Alam	Barkhetri		

	T					1
4.	WASTE MANAGEMENT	Disposal of Waste	Nishal Dev Sarma	Girish Vidyapith Spl. High School	VIII	Baksa
		Âõ¿æÇÃîÂ	Priti Devi	ing in some of	VIII	
		^ÂõÉ1	Nikita Baruah	Balipukhuri	VII	
		ÂóÅò1		MV School		Biswanath
		ÂõÉ»ýÃñ1				
		Pollution	Sukumar		VIII	
		Solution	Rabha	Panchapur ME	X/III	Bongaigaon
			Jaydev Barman	School	VIII	
		ÎÂóùòÏûþ±	Chitralekha		VI	
		ü±÷¢¶Ï1	Sonowal	Arunudoi		
		üðÃÄ	Muhima Sonowal	Janajati ME School	VIII	Dhemaji
		ÂõÉ»ýÃñ1	Sollowar	School		
		æÃ±Âõ1	Manab Jyoti		VIII	
		ÂõÉ»¦š±Âóò	Phukan		VIII	
		± Õ±1n¸	Jyotsna Praza	Senchua MV	VIII	Dibmaanh
		ßÔÁ¿ø¸ËŽÂSî		School		Dibrugarh
		ý×ÃÃûþ±1				
		∍¶Ëûþ±æÃò				
		Hydraulic Arm	Kapil Dev	Darranggiri HS	VIII	Coolmono
			Rabha Utpal Paul	School	VIII	Goalpara
		Recycle and	Kajal Boroo	Dornothor	VII	
		Reuse of	Jahnabi	Barpathar Girls' High	VII	Golaghat
		Polythenes or Plastic Bags	Gohain	School		
		Garbage & its	Sanskriti		VIII	
		management : a	Pathak	Dergaon Girls'		
		scientific study in and around	Niharika Goswami	HS School	VIII	Golaghat
		Dergaon town	Goswaiii			
		Health and	Piya	G.C.M.V.	VI	
		Cleanliness	Chakraborty	School,	7/11	Hailakandi
		Mini Vacuum	Dipali Roy Dipanwita	Katlicherra	VII VII	
		Cleaner	Mazumdar	Kalyan Bengali	, 11	Karbi
			Biprajeet	ME School	IX	Anglong
			Mazumdar			

		Waste Water	Prasenjit		X	
		Management	Nunisa	Diyungbra	11	
			Baosringdao	High School	IX	Dima Hasao
			Phonglo			
		Õ±ÂõæÇÃò±	Basidul Islam		VIII	
		¿ò©"±ø,í	Saiful Islam	Volzedongo	VI	South
				Kokradanga ME School		Salmara
		ÂõÉ»¦š±Âóò		WIE SCHOOL		Saimara
		±				
		÷±ò»	Rohit Konwar		VIII	
		>¶¦Ú±»1	Jyotiraj Gogoi		VIII	
		üÅÂõÉ»¦š±Â				
		óò± Ö±1n,		Pub Sadiya ME		Tinsukia
		Âõ±¿áä±îÂ		School		Tinsuna
		ý×ÃÃûþ±1				
		üÅËû±á				
		Waste Water	Anup Chetry	Balijan Borjan	VIII	
		Management	Manash Pratim Dutta	ME School	VII	Tinsukia
		Solar Energy	Aditi		XI	
		Based Power	Hazarika	Kherajkhat		
		Generation	Bandana	Senior	XI	Lakhimpur
		through a new	Kotoky	Secondary		F
		device and its		School		
		Use of plastic	Makibul	A donaha	VII	
		in domestic	Islam	Adarsha Vidyalaya,		Barpeta
		purpose	Najibul	Mandia	VII	Darpeta
			Ahmed	Ivianaia		
		To create a	Nabajit Saha	Abhayeswari	X	
		pollution free	Soumik	HS & MP	X	Bongaigaon
		environment for the future	Sarkar	Schookl		
		Rain water	Hiyashree	Kasturba	VIII	
		harvesting	Barman	Gandhi Balika	' ' ' ' '	Nalbari
			Bandita Nath	Vidyalaya	VIII	010 011
5.	MATHEMATIC	ßÁ÷ à1¿äÂ	Yasin Sheikh	Ponchagaon	VII	
	MODELING	áżíîÂ1	Masud Alom	High School,	VIII	Bongaigaon
		ÂÓ1ώ±	Khandakar	Boitamari		Dollgalgaoli
			Alread Niett	2011111111	17111	
		¿æÃÝËÂõ±ëÇ	Akash Nath		VIII	
		Â1	Priyanka Gogoi		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
		üýÃñûþîÂ	Jogor			
		ÛËßÁ				
		Âó¿1üÏ÷±¿Âõ		Ujanikuri MV		
		¿ú©†		School		Charaideo
				2011001		
		ÂõáDZßÔÁ¿î				
		ÂßÁ Õ±1n,				
		Õ±ûþî±ßÔÁ				
		¿îÂßÁ ÎŽÂSîÂ				
		1 5	İ	<u> </u>	<u> </u>	<u>l</u>

	l - /	I			1
	ßÁ±¿ù1				
	Âó±ïÇßÁÉ				
	¿òíÇûþ				
	¿æÃÝËÂõ±ëÇ	Kajukamal		VII	
	Â1	Konwar		, 11	
		Ayan Nirban		VIII	
	üýÃñûþîÂ	Borgohain			
	ÂõUöÓÂæÃ1		Mahmora High		Charaideo
	ßÁ±¿ù		School		Charaideo
	ëÂ׿ùÝ»±1				
	üýÃÃæÃ				
	îßÁÌúù				
				X 7 X	
	>¶ï÷ n-	Arpana Gogoi		VI	
	üÑàÉßÁ	Hunmoni Gogoi		VIII	
	ûÅ¢¬ Õ±1n¸	Gogoi			
	ÕûÅ¢¬		Sukani		
	üÑàɱ1		Dighalia ME		Dibrugarh
	îû±áôÂù		School		
	¿òíÇûþ1				
	ÎßÁÌúù				
	Division	Swarupa Das	Panchgram	IX	TT '1 1 1'
	Machine	Shilpi Das	Town High School	IX	Hailakandi
	Production of	Madhusmita	SC11001	VIII	
	Day using	Ray	Charaikhola	V 111	
	Mathematical	Upananda	ME School	VIII	Kokrajhar
	Concept	Barman	TVIE SCHOOL	, 111	
	Highest	Muskan		VII	
	Common	Kumari	Kashipur ME		Dima Hasao
	Factor	Govin	School	VII	Dillia Hasao
		Balmiki			
	Math Magic	Begum		VIII	
	(Ankor Jadu)	Shahin	Nagabandha		
		Ahmed	Girls' ME	X / T T T	Morigaon
		Begum	School	VIII	
		Farhana Ahmed			
	Division	Pankaj Narah	Residential	VII	
	Machine	Mriganka	School for	VIII	Majuli
		Pegu	Boys	,	
	Application of	Dipsikha	,	VII	
	practical	Rajbonshi	Hatichuli MV		
	geometry in our	Prinakshi	Hatighuli MV School	VII	Sibsagar
	day to day	Polli Devi	SCHOOL		
	activities				
	Geo Board	Noor Alam	Kabilabad High	VIII	
		Najmul	English School	VIII	Sonitpur
	Daladia n	Sheikh	-	T 7 T	
	Relation of	Dhritishman	Tezpur Govt.	VI	Sonitpur
	Angle	Das	H.S. School		•

			Abdul Wazid		VI	
		Simple Machine for Division	Ruma Yesmin Rina Begum	Progati ME Madrassa, Sonapur	VII	South Salmara (Mankachar
		Basic Mathematical Operation	Bishal Chauhan Guddu Chauhan	Mailoo Hindi High School	VIII	West Karbi Anglong
6.	TRANSPORT AND COMMUNICATI	îä±1ßÁ öÂûþ àÅÝ»± î÷¿äÂò	Kumari Kuhi Sarma Leena Sarma	Baguan Girls' High School	VIII	Goalpara
ON	Âó±òÏ1 ÕÂóäÂûþË1±ñ Õ±1n, Âõ±òÂó±òÏ1 Õ±áæÃ±òòÏ üÔ¿©† ßÁ¿1Âõ1 Âõ±ËÂõ Õ±¿ýÇÃÃ	Nayanjyoti Borah Jyotishmoi Sharma	Charaibahi H.S. School	IX	Jorhat	
		ÂõUàùÂóÏûþ± á±ëÂÿÏ 1à± ¦š±ò	Manik Roy Ainul Haque	Bhaskar Vidyapith H.S. School	VIII	Kamrup (M)
		Electric Boat	Bishajit Nath Saurab Nath	Bhelamari ME School	VIII VIII	Nalbari
	Hydraulic Excavator	Ritom Borah Bikash Pegu	Jonaki Chamahiya Ati Model H.S. School	VIII	Majuli	
	Safe transportation route for Indian army	Rajdeep Sarkar Sumit Sen	Aurobindo Bidya Niketan High School	VIII	Sonitpur	
	Âó±òÏ1 ÁZ±1± û±òÂõ±ýÃÃò äÂù±äÂù1 ÃõÉ»¦š±	Mangala Biswas Sukla Biswas	Dikhlem ME School	VIII	West Karbi Anglong	
		Preventive measures before accident on a highway	Pallab Dutta Abhilesh Sarma	Madhabdev Academy	XI XI	Lakhimpur

Documentation: Hemanta Narayan Das, Librarian cum Documentation Officer, SCERT, Assam and Geetima Katakey, Assistant Librarian, SCERT, Assam