Glimpses of Outstanding Science Projects By Young Researchers in 2015

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JAWAHARLALA NEHRU CENTRE FOR ADVACED SCENTIFID RESREACH

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Profesor C.N.R. Rao. I. R.S.

12 June, 2015

I am giad that the 23nd National Children's Science Congress organized at SJB Institure of Technology, Bengaluru During 27 to 31, 2014 Was a Grand Success. It is Noteworthy that this congress will provide exposure to research for students in the age group of 10 to 17 years from urban and rural settings. I am happy that the evaluaters have selected 20 outstanding projects that are being compiled for distributtion amongst schools in the country and given an opportunity to the bright students to showcase the high standards of research. I wish the students and the School success it accomplishing the project.

(C.N. R. Rao)

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message

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FOREWORD

The importance of early exposure to science research and systematic problem solving is being increasingly recognized by educationists and science administrators. Children's Science Congress over the last two decades continues to serve as an pioneering forum for thousands of brilliant youth many of whom have taken conscious career decisions because of their positive experience with this movement.

This compilation of selected projects reflects the wide variety of enquiry and novel approaches of young scientists who lead their teams to the National Children's Science Congress held at Bengaluru in December 2014. The second part offers a peep into the reach of the congress and some of its unique features.

Some of these projects have their leaders have been invited for international events including the Expo Sciences International organized by MILSET (Movement International pour le Loisir Scientifique et Technique) held at Brussels in July 2015 and APCYS (Asia Pacific Conference of Young Scientists) at Kuala Lumpur in September 2015. Their creativity has been recognized with medals and certificates.

The project researchers behind these twenty projects profiled here and their mentors will be offered a three week internship at an institution of multi-disciplinary teaching cum research.

The Network stands committed to support and promote enquiry, creativity and curiosity among the youth in its silver jubilee year.
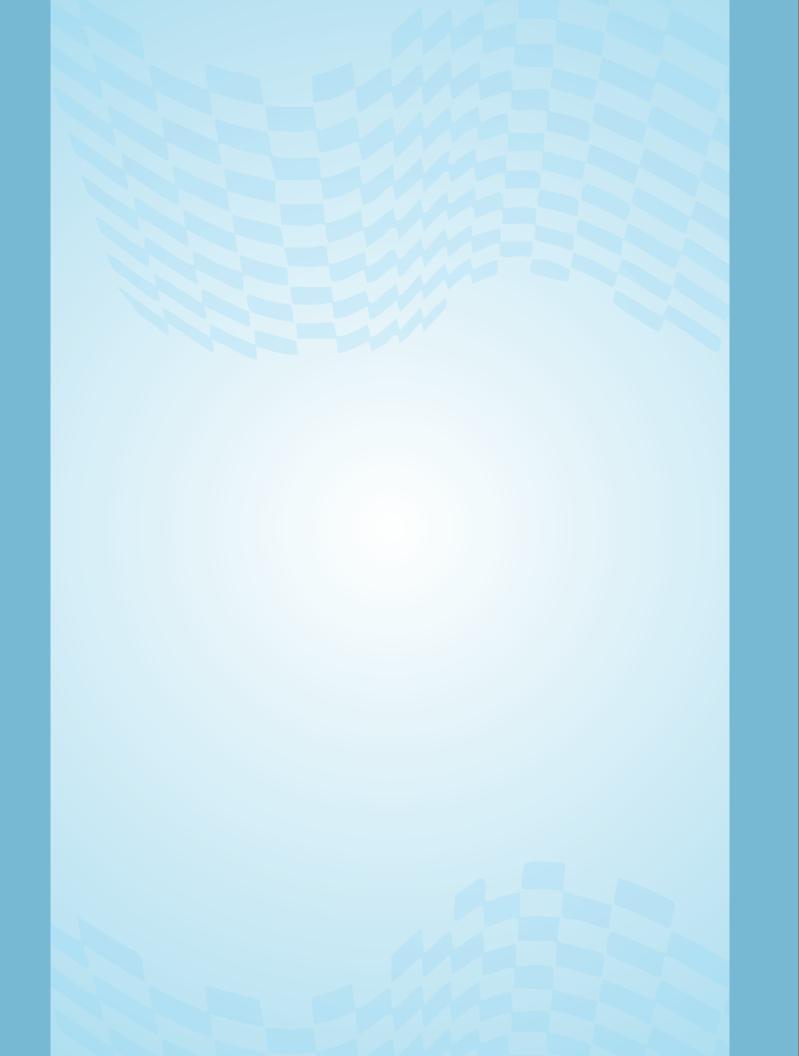
Er Anuj Sinha

message

I am delighted to know that 20 outstanding projects out of 600 presented at National Children Science Congress are being compiled for distribution amongst schools across the country to motivate and encourage them into research and innovation.

I had participated in the final event of 23nd National Children Science Congress (NCSC) on 27th December, 2014. I was impressed that students at Bengaluru were sensitized about not only the method of science but also an issue of topical interest, "understanding weather and climate". The relationship of life with weather and climate are getting more and more complex. It is timely that students are sensitized to such issues as early as possible.

I wish all the best to the students for a career in Science, Technology and Innovation.

(Dr. Harsh Vardhan)

Editorial Note....

The 22nd National Children's Science Congress (NCSC 2014) organized during the period of 27th to 31st December 2014 at Karnatka, concluded with great enthusiasm from all round, with a dazzling attraction for the Focal theme of NCSC 2014"

"Understanding weather & Climate"

The measurement of enthusiasm was the flood of projects which were presented at district level congress about 60,000 from all over the nation. After screening, about 6000 of them were able to reach at state level, further short listing them reduced the number to 636. Each of these papers were a report of an open ended project conducted by a team of young Scientists about 4 in number under the able guidance & mentorship of a parent or teacher.

It was a matter of great satisfaction, that the projects were participated almost equally by male and female leaders.

The attractiveness and the size of the recognition of the programme could be observed by a fact that 48% +project representations were from rural schools. A break up of the projects by the researchers of specific groups [10-14 yrs.] & [15 – 18yrs.] has been highlighted in Annex-I.

The underlined success, of the efforts of NCSC from last 23 years had been the encouragement to the brilliant scientists and this galloped a million times with acceptance of report presentation in INDIAN languages, which further added feathers by encouraged participation of RURAL areas.

The most satisfying details of the presentations received, state wise are depicted in Annex-III, where Navodaya Vidyalaya & Kendriya Vidyalaya projects have been given a state like status being the major chains organizing the activities annually as per NCSC guidelines.

The most precious and complicated work was yet to be performed in identifying the outstanding projects, as it involved evaluation of presentation and the posters at different halls by almost 50 experts.

The jury at Karnatka, despite the involved subjectivity showed a remarkable quality, in such a difficult situation, by guiding the team to select the top twenty projects. The Synopsis of these OUTSTANDING projects are being compiled and documented in this publication. The chronological arrangement has been done keeping in mind the alphabetical order of the names of group leaders in bold followed by name & address of institution. The name of the guide and the language used has been incorporated at the bottom.

A matter of great satisfaction was the welcome participation of ----– ASIAN   and ----- Projects from UAE, although these were not considered for evaluation but have been enlisted in Annex.

Our efforts in presenting the synopsis in this report is directed to provide the readers a comprehensive idea about the young scientists (as we call them)and understand their ability to identification of problem and solution in the burning topic like "Understanding weather & Climate", using a very systematic research and methodology.

We are incorporating the synopses of the projects instead of the whole project as our limitation to the scope of it.

We hope this report, shall help everyone to get the "Determined science Movement" that NCSC has represented.

-        Editor

Contents

IMPROVEMENT OF MUSHROOM PRODUCTION BY NEW TECHNOLOGY:

A CASE STUDY IN VILLAGE RAIKAMA

Mushroom is a friend of vegetarians. To solve the food problem Mushroom takes a vital role. For Mushroom cultivation we need to control the temperature and humidity by which production can be grown.

OBJECTIVES

We have selected Raikama Village under the block Betnoti, Mayurbhanj as our Project area. Project work started on 2nd September 2014.

All members of the group and with the guide teacher we collected data by observation and questionnaire about Mushroom cultivation method and its production in village Raikama and its periphery during two months.

1. The mushroom farmers are doing mushroom cultivation in open places. There are ponds and drains near Mushroom cultivation places around.

2. It is seen that some of Mushroom farmers cover the jute bag around Mushroom cultivation area to control the temperature and humidity. They spray water time to time. But they are unable to control the temperature and humidity properly.

3. So their Mushroom production is not satisfactory.

To solve these problems I and the four members of the group have made a machinery device. We had given the new devices to five Mushroom farmers in village Raikama. After fifteen days i.e. after production of straw Mushroom it is observed that the production of Mushroom has been highly improved. The new technology of Mushroom cultivation (by using temperature and humidity control device) gives double profit in comparison to the general method of Mushroom cultivation and it solves the food problem. CONCLUSION

If the Mushroom farmers will be aware and conscious, by the Government support and proper guidance with new technology will be provided to them the production of Mushroom will be highly improved. The food problem of the country can be solved. FOLLOW UP ACTION

With the help of S.H.G. members and Mushroom farmers we hold an awareness program to encourage them for Mushroom cultivation regularly. By the implementation of the new technology the Mushroom production has been improved. Our project is highly appreciated by the Mushroom farmers. For creating awareness among the Mushroom farmers we made rally and Pallisava in nearby villages. We have decided to continue the awareness program for a long period.

Name of the Group leader & Members   Guide Teacher : **Ajit Kumar Jena**

Jaykrushna Das (G.L)

Gourab Dey

Saroj Mohanta

Blbek Ku. Mandal

Subhankit Mahala

"Failure will never overtake me if my determination to succeed is strong enough."

TITLE OF THE PROJECT

CHAKARA (MUD BANK): A UNIQUE NATURAL PHENOMENON.
A STUDY ON CHAKARA OF ARTHUNKAL VILLAGE OF ALAPPUZHA DISTRICT: CAUSATIVE FACTORS AND IMPACT OF CLIMATE CHANGE ON ITS FORMATION.

DISTRICT : - ALAPPUZHA , KERALA STATE

Chakara is a unique natural phenomenon seen on the western coast of Indian peninsula. At present, chakara formation takes place regularly in the coastal waters of Alappuzha district. We have chosen the chakara seen near the fishery village of Arthunkal of Cherthala south panchayath of Alappuzha district, Kerala state, as our study area. The major objectives of our study are to get a scientific understanding of the phenomenon of chakara (Mud bank) and unravel the relationship between the monsoon and the role played by the canals and bar mouths in the formation of chakara. Another objective of our study is to understand the impact of climate change on the formation of chakara and the fish diversity.

As a preparation of our study, we collected and read scientific literature on chakara and had a group discussion on the subject. Then we discussed the project with experts in the field and decided to make a comparative study of the physical and chemical characteristics of water and soil collected from chakara of Arthunkal and water and soil taken from coastal area of Mararikulam, where chakara is not currently seen. We collected the data of rain fall during the monsoon of 2014 to assess the role of monsoon with the appearance of chakara. We have also conducted a survey to collect the opinion of fishermen on the appearance of chakara at Arthunkal.

We conducted water analysis mainly to get an idea of the quantity of Nitrate, Phosphate, Chlorophyll—a, Chlorophyll-b, the major indicators of the productivity of sea water. The quantity of plankton present in the water was also studied. So we also we studied the organic carbon content on the soil taken from chakara coast of Arthunkal and that of Mararikulam.

It is observed that the quantity of Nitrate and Phosphate is more in the water collected from chakara than in the water taken from Mararikulam. Similarly the organic carbon content of the soil of chakara is significantly higher than in the soil taken from Mararaikulam. Our study indicates that the organic material (humus) that reaches the sea water through the canals and barmouths plays a significant role in initiating mud bank formation in a particular locality. It can be inferred that the presence of higher quantity of Nitrate and Phosphate in chakara enhances the primary production facilitating the growth of phytoplankton which in turn increases the growth of zooplankton in the sea water of chakara. It is evident that the presence of phytoplankton and zooplankton attracts plankton feeding small fishes and attract other large fishes that feed on the smaller fishes to the area, thus establishing a short lived food chain in the area. This may be one of the reasons for the higher fish catch often observed in chakara.

It is inferred that continuous and heavy rain is essential in the formation of mud bank. It should be noted that this year unseasonal continuous and heavy rain occurred during August-September months and this may be one of the reasons for the formation of chakara of Arthunkal village. Usually chakara appears during the months of June and July.

One of the major problems observed in this area was the large scale conversion of canals to dry land at sides of bar mouth, due to deposition of sand. Another problem is the wide spread plastic pollution in the area of chakara. To address these problems we visited the people living on the banks of the canal and discussed with them the importance of conservation of canals and distributed bulletin explaining practical aspects of nature conservation. With cooperation of the local people we planted several seedlings of trees along the canals and bar mouths of the coastal area. We have also appealed to the president of Cherthala south panchayath to make necessary arrangements for cleaning the coastal area and get rid of plastic material from the beach. With the cooperation of science club of our school, we will continue with the conservation of canals in the coming years.

Group Leader :- DEVIKA C S STD X ST.AUGUSTINE'S H S MARARIKULAM

Group Members :   1. RESHMA RAJEEVAN STD X

                     2. ANJALI. P. M STD X

                     3. SANU SALAS STD X

                     4. JOBIN ALOSCIOUS STD VIII

Guide Teacher :   IGNATIOUS. A.P., ST.AUGUSTINE'S H S MARARIKULAM

"Don't take rest after your first victory because if you fail in second, more lips are waiting to say that your first victory was just luck."—
A.P.J Abdul Kalam

TITLE : SELF HELP IN WASTE MANAGEMENT

The manufacture, distribution and use of products as well as the management of resulting waste all results in the increase of GHG (green house gasses) that affect the earths climate. Waste prevention and recycling are the real ways that prevent climate change.

The aims of this project were to collect, classify and identify different type of house hold waste from 25 houses of sec-15 and classroom waste of D.A.V. school and studied Aerobic, Anaerobic and Vermicomposting methods of decomposing organic waste. Experimental analysis was done to identify rate of decomposition in different types of waste by three methods and we analysed soil for WHC and pH value. For this we chose area of sector-15 and D.A.V. school. For Aerobic composting took six containers and filled them half with soil and sprinkled water over it. and kept it for decomposition. For anaerobic composting we repeated the same procedure and sealed them in an air tight with plastic cover. For vermicomposting we used earth worms in the pot with the organic waste and soil over it and kept for composting in regular observation of 2 month.

Results show that vermicomposting takes less time to form compost. Plastic and Aluminum foil did not decompose by either of the processes. Bread, Mushroom, Vegetable peels, Pea nuts shells and egg shells took 16, 12, 20, 15 and 17 respechvely . To study level of CO_2 in different disposal areas.

pH of the soil before our experiments was 5 and after decomposition it was to be 7.5 showing that Vermicomposting makes the soil fertile. We observed that Land fill land has maximum CO_2 level and vermicomposted soil has more carbon contents.

Conclusion of the project is that organic waste can be managed at home by above methods easily. For this we suggested the placement of 3-bin system at home. For this we trained our school is helping staff for proper segregation of waste before disposal and use three-bin system with the help of school ECO-CLUB and created awareness with the help of pamphlets and house meetings. Future scope of our project is to manage the city waste and thus we can decrease green house gases by waste prevention, recycling and waste management through above processes.

Team Leader : Himanshu Malik   **Guide Teacher :** Geeta Dahiya

Team Members: Vikrant, Avdesh, Anurag, B.Likhita

"Don't read success stories, you will only get a message. Read failure stories, you will get some ideas to get success."

PROJECT TITLE: EFFECT OF WEATHER ON PHYTOPLANKTON OF POND ECOSYSTEM

1. Effect of weather on phytoplankton of pond ecosystem.
2. Effects of rainfall, temperature and some physico-chemical parameters of pond water on the phytoplankton population of two ponds at the vicinity of our school were studied to understand the roles of these environmental factors on growth, physiology and survival of planktonic algae in pond ecosystem.
3. Amount of rainfall and temperature of pond water were measured periodically using `Rain-gauge' during pre-monsoon, post-monsoon and pre-winter seasons (mid-June to mid-October) of 2014. Besides, pH, dissolved oxygen (D.O.), chloride, carbonate and bicarbonate contents of prevailing water of two ponds during these seasons were also measured following accepted methodologies. The relative density of phytoplankton was assessed turbid metrically using colorimeter as well as microscopically using Sedge wick-Rafter chamber.
4. Notable variation in D.O. was observed in three different seasons (1.82-7.28 mg L-1). Temperature (28-32°C) and pH (6.5-7.42) also changed seasonally to slight extent. Accordingly relative density of phytoplankton was increased in early winter. Anabaena sp. Among cyanobacteria and Oedogonium sp. Among green algae exhibited highest relative density. Rainfall has been considered to be an important factor for the dispersion of bloom caused by planktonic freshwater algae.
5. Seasonal changes in values of pH, D.O., chloride, carbonate and bicarbonate indicated that winter is the growing season of planktonic algae. This may in turn favour the fishery and lead to economic progress of native villages.
6. Abundance of Hydrilla sp., an aquatic submerged photosynthetic oxygen evolving plant was observed at the banks of both ponds indicating good condition for fishery of local fishes in upcoming summer.

Name of the other Group members :   Shukla Mondal   Guide Teacher : Subhajit Roy
                                     Baishakhi Bagdi
                                     Rita Bagdi

"All Birds find shelter during a rain. But Eagle avoids rain by flying above the Clouds." –
A.P.J Abdul Kalam

TITLE : WEATHER PATTERN AND ITS IMPACT ON FISH LANDING AT KAVARATTI

Variations in the abundance and catch rates of fishes have been associated with large scale changes in climate indices and oceanographic parameters all over the world To better understand this process we examined catch rates of fishes in Kavaratti Island in relation to weather and climatic parameters (WS, WD, T and RF) as well as oceanographic parameter (SST, DO, CL) Monthly mean wind speed in pre-monsoon, monsoon and post- monsoon were 12 Km/h, 51 Km/h and 10 Km/h respectively. Monthly mean temperature in post-monsoon was —28 °C while it was — 26°C in monsoon. Atmospheric temperature increased from January to May before decreasing to seasonal minimum in July — August. Annual average landing during the period 2010 and 2011 was 2381 t. The location of the habitat preferred by fishes varies in space and time due to seasonal, inter-annual and decadal ocean cycles (El Nino and La Nino) that occur naturally. Main fishing season commences from October and continues up to May and very low catch rates were observed in Monsoon. During inter-annual climate change like pre-monsoon (January-May) the annual average landing was 271 t. In the monsoon period (June- sep) the average landing was 93 t and 234 t in the post monsoon period. An abnormal decadal climate change was observed in 1998 (EI Nino) with a record landing of fishes (12200t). Oceanographic parameters, especially temperature, determine the catch of tunas, the main species of fish landing in Lakshadweep. The abnormal warming-up of sea surface temperature in 1998 thus was responsible for the high catch. Besides temperature, dissolved oxygen and chlorophyll influence fish landings. Both these parameters are susceptible to changes with climate changes and hence there is a need to monitor them continuously using field sampling and satellite data in order to assess fish production in Lakshadweep sea.

Group Members :   Naureen Taj (Leader)   Guide Teacher : Mohammed Akber K.I.N

Asna M.P (S.T.D XI)

Aysha Risalath P.P (S.T.D XI)

Qabeera T.N (S.T.D XI)

Rasheeda Beegum C.P (S.T.D XI)

"Man needs difficulties in life because they are necessary to enjoy the success." –
A.P.J Abdul Kalam

Title: Study of weather changes of Roing area and an attempt to reduce air pollution Millo Dacha, Chaw Akametta Enling

There is a balance between man and nature. If this balance is broken then nature tries to balance it by destructive means which are harmful for us. With the flow of time human activities, disturbing nature, are increasing. There is a need to understand it and to find its solution.

Our aims and objectives were to study the weather changes of going area, i.e. impact of weather changes on Roing area and the contributions made by Roing area towards global climate changes, and to hit an attempt to find a way to reduce air pollution for which we have designed our model.

We have made a study of weather changes of Roing area of past five years and have tried to find its impacts on Roing area and contributions made by Roing area towards global climate changes. We have observed the rainfall and temperature, using a self-made rain gauge and a thermometer, of August month of 2014 and correlated it with the data of past five years. We collected the record of annual afforestation and deforestation done in last nine years from Divisional Foi'est Office, Dibang Forest Division. We have tested water samples from majorwater bodies regarding 01 and have checked it with the report of the lab of PHE Division, Roing for validation. We collected soil samples from the basins of Deopani River and township area. We tested these samples for its water holding.

Regarding impact of weather changes on Roing area, we have observed from our data that there are steep fluctuations of rainfall and temperature due to which soil erosion is taking place specially at the bank of the Deopani river, which is supported by the report of our soil test, as a result natural vegetation adversely gets affected and also water gets dirty as a result various waterborne diseases spread in Roing area, which is supported by the data from Health Departinent. Further the steep fluctuations of temperature weaken our body immunity due to which we becomes vulnerable toward these diseases. Acid rain does not occur in Roing area which we carne to know from the water test of major water bodies. Regarding the contributions made by Roing area towards global climate changes we came to know that deforestation is not a factor contributing to global climate changes from Roing area and the major contribution made by Roing area towards global climate change is air pollution, mainly from burning firewood and fossil fuels for energy. To reduce this air pollution we have designed and made our models (one for firewood and another for fossil fuel engines). We have practically tested these and have got quite satisfactory results.

Guide Teacher : Shri Manoj Shah

"If you want to shine like a sun. First burn like a sun." –
A.P.J Abdul Kalam

Title of the Project : Waning of the Queen of Spices

Weather is the temporary atmosphere condition of a given palace at a given time. The average weather of a place over a period of time is called climate.

It coorg 70% of the population is dependent on agriculture for their livelihood and most of the people in villages, do not have access to computers. So they cannot predict the weather. The drastic change in weather affects their livelihood.

Sometimes when farmers and planters spray their crops and fertilize their crops, rain can wash it away and effect their yields. Similarly harvest, transplanting etc can get affected by unfavourable weather. Also rain can effect plants like cardamom because when water is stagnant below cardamom. It causes the roots to rot and plants can also get up rooted due to heavy wind.

Kodagu, well known for the aromatic spice cardamom grown in areas where there is thick vegetation thrives well in regions receiving an annual rainfall of 1500-2500 mm along with mean temperature of 150 C to 350C and 600 to 1200 m above mean sea level (MSL)

There are different types of cardamom based on adaptability nature of panicle, shape and size of capsules. They are Njallani Green Gold and Clone-37

Organic manure used, consists of the raw material (2 liters of milk, 2 liters of curd and ½ kg ghee) obtained from cattle are combined with 100 grams calcium carbonate, 200 grams of jungle soil, 1 litre of cow urine, 1 kg of cow dung and 2 kgs of banana. All these ingredients are mixed and left to ferment fo 30 days and is stirred once in two days.

This manure contains 0.5% of nitrogen, 0.2% phosphorous and 0.5% potassium. In 1 litre of cow urine, there is .1% of nitrogen and 1.35% potassium. The manure has a shelf life of one week (after the fermentation period of 30 days) and can be used on any crop in the ratio 1:9 with water .

It can be easily outsourced and is beneficial as it sustains the plant and increases the yield two fold.

Study Team : Havish Ganapathy (Leader)   Guide Teacher : Mrs Meera K.A

Members :   Nilanjana Gayathri Kuttappa

B.S. Sanjana

Nethra Khandige

G.R. Aashutosh

"All of us do not have equal talent. But , all of us have an equal opportunity to develop our talents." – A.P.J Abdul Kalam

TOPIC : MONTORING WEATHER CONDITIONS BETWEEN TOW LOCALITIES IN RAIPUR

In our day to day life we come across so many changes in the environment. We see changes in our physical world and correlate it with different phenomenas.

One of the change is the weather change. The weather around us rarely becomes constant is due course of time. We can measure variation in the different factors of weather and correlate them within themselves which unknowingly cause a major charge in the climate ultimately.

Now a days one of the major problem we are facing is "Deforestation". Trees are our lines. They affect all aspects of nature including weather phenomenas. Hence, in our project, we try to study the variation of factors of weather of two areas, based on the difference of number of trees.

Each factor of weather, whether it is temperature, pressure, wind speed various, day to day. In our project we are aimed to study these changes only and on the basis of observed data, we have to draw tables and graphs, so as to draw necessary conclusion.

All these process require a deep knowledge about the topic. Hence, first we many books and also Wikipedia to get knowledge of what we have to actually do.

Wherever, we heard "weather" a ward that strikes our mind is "something that changes continuously" This forms the basis of our project we try to compare all the factors of weather of the two areas of our region that we have selected.

Guide Teacher : Mr. S.K Mishra

"Be more dedicated to making solid achievements than in running after swift but synthetic happiness." – A.P.J Abdul Kalam

PROJECT TITLE : USE OF WATER HYACINTH IN AGRICULTURE TO COPE WITH THE CLIMATE CHANGE.

Agriculture is the prime factor of the people that human has stepped towards civilization avoiding the nomadic life. Without agriculture it is impossible to step in ladder of human development. As India is an agri−based country we need to pay attention to agriculture rector.

Now a days air, water and soil have been polluted as a result of the smoke of the industry (factory), rubbish of the plastic and over utilization of the chemical fertilizer. Exceptionality is observed in approaching of the Mansoon and departure. This resource and irregular mansooning betrays the cultivator most in plantation as well as growing crops.

On considering these matters more seriously we have undertaken a system of agriculture which is cheapest one even in the adverse weather also. This process as well as the advantages found from are under mentioned.

Rotting the Water Hyacinth making the Water Hyacinth Ball easily, germination is done of various seeds. At the same time germinations are also done in the earthen ball and the mixture of soil and cowdung ball. It is observed shortly that in the Water Hyacinth Ball seed grows immediately (within 5-6 days). But in the earthen ball germination is not seen. Although germination is seen in the mixture of soil and cowdung ball after few days it died. IN conclusion it can be assumed that through this Water Hyacinth Ball development in the agri-rector can be brought.

Some of the advantages from this process are as mentioned below:-

1.   Through this Water Hyacinth Ball germination process an early product of crops is immediately possible.

2.   This process is totally organic.

3.   The growth of the plant germinated in this Water Hyacinth Ball is a rapid system than that of others.

4.   This Water Hyacinth Ball does not decompose easily. So in this Water Hyacinth Ball plant both plantation and germination can be provided without plastic. Using this method we can reduce the use of plastic in order to maintain a polluted fee atmosphere in our surrounding.

Team Members :   Nihar Sharma (Group Leader)   **Guide Teacher :** Pranjal Kashyap

Anurag Barman

Mashud Alam Kustafee

Dishant Bhuyan

"Thinking should become your capital asset, no matter whatever ups and downs you come across in your life." - A.P.J Abdul Kalam

ABSTRACT

AIM
To study the ancestor's way of predicting climate with the help of bio-indicators and the influence of climate and weather on agricultural activities and life style.

NEED FOR THE STUDY
Our ancestor's wise ways remains unexplored. In this project, we wanted to explore their knowledge about climate.

OBJECTIVES
1.   To study "Bio-indicators" of rainfall.
2.   Compile our ancestor's agricultural practices, beliefs, proverbs, precautions, taken to protect against weather changes, food habits festival and divellings.
3.   To compare the predictions made in the almanac (Panchangam) with the available rainfall data.
4.   To collect all the songs for 60 Tamil years and their rainfall predictions.
5.   To create awareness on global warming.
6.   To adopt our ancestor's methods to be weather wise.

HYPOTHESIS
Our ancestors had through knowledge on agriculture, astrology and weather forcasting.

METHODOLOGY
1.   With questionnaire, 50 senior citizens randomly chosen were interviewed.
2.   Government libraries visited.
3.   TNAU Scientists interviewed.
4.   October 2014 rainfall data obtained from collector office.
5.   Bio-indicators of rain in October 2014 studied.
6.   Actual and predicted rainfall for tamil years from 'Prabhava' to 'Nandhana'

RESULT
1.   Our ancestors habits (food, dwelling, agriculture) were largely influenced by climate.
2.   Bio-indicators like dragon fly heralded rainfall and winged white ants indicated cessation of rain.
3.   Of the twenty six tamil years studied, 17 years coincided with the predictions made by our ancestors.
4.   More rainfall occurred during new moon phase and on keezhokunaal in October 2014
5.   The relative humidity was high in thatched and clay state houses.
6.   Benefits of being "Climate Smart" and "Weather Wise" enjoyed.

CONCLUSION
Hence we prove our hypothesis. We have learnt from our ancestors how to colorist peacefully with nature and pass it let us emulate our ancestors and follow their time tested methods.

Team Leader : Sarvika Raghu   Guide Teacher : Mrs. M. Kavitha
Team Member: Pravanthika Adhavi B
Aisherin Nisha A
Shobika M
Srinithi Rathna S

"Without your involvement you can't succeed. With your involvement you can't fail." – A.P.J Abdul Kalam

A STUDY ON HUMAN COMFORT IN ASSAM BASED ON WEATHER VARIABLES

Thermal discomfort is one of the major problem for the school going students of Assam during the period of May to August. Considering the point on this study we have tried to find out the extreme thermal discomfort period so that during the most discomfort period the school remains closed as summer vacation thermal comfort or discomfort is determined by combining two factors i.e. temperature and Relation Humidity Index (THI) or equivalent temperature. Thermal comfort is an perant value which is reasonably close to the actual air temperature and the value for high temperature condition is 95. The Thermal Comfort Index above 95 will lead to people's discomfort, where as below 95 people will feel comfortable. However, if the wind speed (air movement) is high it will promote the comfort above the comfort zone. With regards to heat Index NOAA's National Weather Service Issued a heat warming when heat Index is ≥ 1050 F. In the present study Thermal Comfort Index is calculated by using standard formula and Heat Index is calculated by using Heat Index chart prescribed by NOAA's National Weather Service. The calculated data of comfort index, Heat Index, average wind speed and rainfall were analysed by dividing it in Standard Meteorology Week as per IMD.

In our study both the Thermal Comfort Index and Heat Index value is the lowest in the 1st week of May and it is in the increasing trend upto 31st August. However, the highest discomfort trend observed from 25th June to 31st August, where the comfort Index value was ranging from 106.75 to 108.5 and the Heat Index was within 101.920F to 108.820F. On the other hand, the wind speed was in decreasing trend from May to August.

Thus, considering the heat risk condition it may be concluded that the summer vacation or alternative arrangement of school timing (morning school) to be done for the most heat risk period of 25th June to 31st August.

Team Member : Sujit Gautam : (Group Leader)   Guide Teacher : Ranjit Kakati

Nihit Pal Dutta (Co-Worker)

Abhijit Borah (Co-Worker)

IMPACT OF WEATHER ON VARIATION OF WEIGHTS OF CHICKEN EGGS

Weather and climate affect different activities of the life cycles of plants and animals. Weather can affect the feeding of layer chickens and also production and development of their eggs. This may result in weight variation in laid eggs.

In our project, "Impact of Weather on Variation of Chicken Eggs", we are trying to study the relationship between variation of egg weight in different weather condition. For the experiment, 5 Layers Chickens of the commercial strain – BV-300, weight 1.5 kg (each) aged about 30 weeks were sketched in a private poultry form. All these chickens were kept in a cage system of bamboo heating under uniform management system with same balanced diet.

The eggs laid by these 5 chicken were weighed using a chemical balance for 5 days in each month of August, October and November 2014. Temperature and relative humidity in the poultry form were also recorded on those days.

From the collected data, it was found that weight of eggs very with change in humidity and temperature of the atmosphere of the farm. It was noted that eggs laid during fair weather have higher weight than that of the eggs laid during cloudy or rainy day. For getting eggs with higher weight, the ranges of optimum temperature and humidity were recorded to be 24-330C and 80-92% respectively. Thus the study reveals that if such an optimum environment is provided to a poultry form, then we can get eggs with higher weight (keeping other factors equal for all chickens).

Team Member: Bhagyashree Dutta (Gr. Leader)   Guide Teacher : Niruma Khanikar

Priyankapriya Gogoi (Co-Worker)

Parishmita Saikia (Co-Worker)

Deergha Gogoi (Co-Worker)

TITLE OF PROJECT : COMPARATIVE STUDIES ON THE EVAPORATIVE & EVAPO-TRANSPIRATIVE LOSS OF WATER FROM THE BARE SOIL AND GRASS COVERED SOIL.

To determine the rate of loss of water/moisture from the soil through evaporation and also by the process of transpiration, under different weather conditions following methodology was adopted.

(i)   Keeping daily record of temperature (at 11-30 am, 1-30 pm & 3:30 pm) of the air & the soild of the selected areas or plots.

(ii)   Record of temperature taken simultaneously by wet-bulb and dry-bulb method for calculating Relative Humidity at the time of investigation.

(iii)   An improvised method was adopted to estimate the rate of evaporative loss or transpirative loss. A square sized transparent glass paper is placed over the experimental area & margins were closed as far as practicable to prevent any loss of moisture.

The gain in weight by the glass paper sheet (400cm2) after 1 hour of exposure to sunlight is taken as a measure of the rate of evaporation or transpiration rate.

Analysis of data shows that evaporation & transpirative loss in higher, higher the air temperature. At 380C rate of transpirative loss is about 2.36 times more than the rate of evaporation from the grassless bare soil area. Evaporative loss of water from the soil with 10% moisture content is almost nil while the grass covered area with similar moisture content may continue to transpire moisture at an exceeding reduced rate.

Name of Team Member : 1. Moumita Paul (Group Leader)   Guide Teacher : Rajib Podder

                          2. Jayasree Sarkar

                          3. Sonali Biswas

                          4. Risha Karmakar

                          5. Sayantika Datta

Title of the Project: Reduction in Carbon Footprint by Biowaste Management

Considering India being a rural based economy where about 70% of the inhabitants dwells in villages, the sources of energy which the people in our country widely using for their domestic needs are coal, oil , LPG, fuel wood , electricity etc. The life style changes and throw away culture led to generating huge quantity of agricultural and Biowaste which is cumbersome of nature to take care in its course. The open burning , dumping yards add Green House Gas emissions, which directly impact the weather and climate .But the Bio degradable waste material which is also an eco-friendly source of energy is neglected and thrown randomly. So the need of the hour is the beneficial reuse of biodegradable waste and to develop broader- reaching, cost-effective organic waste solutions. So our project HEAT TRAPPER "WATER HEATER " is a pursuant to this need. Our project investigates the possibility of trapping the heat released during decomposting to heat water for domestic and other usage. For this a Decomposting Unit has been designed which is not only an Energy efficient water heating unit but it is also facilitates bin composting. Being based on the principle of Aerobic Composting our project has the merit of zero fuel consumption and the beneficial reuse of organic waste as compost, hence helps in reducing carbon footprint which is beneficial for our weather and climate.

Group Leader : Sahil Sharma   Guide Teacher : Sh. Foran Chand,
          Sh. Nirupam Kalia

Group Members :   Shivani Sharma

Dalvir Singh

Inderjeet Kaur

Abhishek Kumar

TITLE: "The Answer to Climate Change is CHANGE"

Archita Harsimran, Divman, Gurpratap, Avik
Delhi Public School, Village Jhammat, P.O. Ayali Kalan, Ludhiana, Punjab — 142027

The project titled "The answer to Climate change is CHANGE" intends to explore the impact of climate change on agriculture and vice versa. Agriculture both contributes and gets impacted by climate change. In India today, about 28% of green house gases are contributed bill agriculture which is predominantly rain dependent. Often the impacts of climate change are ignored. Our project team ventured to study the delicate relationship between them in a broader context of dialogical, economic and socio political crisis which the farmers are undergoing and build support systems to facilitate the process of adaptation and mitigation. Toe the project the core team was asked to brainstorm and prepare two survey sheets, one for the urban population and the other for the farming community. The data hence collected was statistically analyzed to get an in depth view of the situation.

In order to lend a concrete foundation to our study, we conducted a couple of field activities and experimentation. The objective of the activities was to explore

• The relationship between canopy density and temperature

• The stay green tendency of foliage

To supplement our investigative activities we conducted the following experiments

• Screen heat resistant varieties by determining the percentage germination

• Observe the coleoptiles growth

• Calculate the dry biomass of seedlings after 15 days of germination

Repeated visits to the Basami and other neighboring villages and our mentor Dr. N.S. Bains (Plant Breeding and Genetics Department PAU) helped us in better understanding of the two standpoints and bring the two parties on a common forum for tackling the quandary.

Our findings highlighted the vulnerability of wheat varieties to temperature rise, which is predicted to continue in the coming decades as a consequence of climate change. Our studies revealed an assessment, of crop productivity and climate impacts. The challenge before us is to understand the changing patterns and chalk out adaptation and mitigation strategies. Accelerated breeding program to match with the current pace of climate is one possible solution to combat the predicament.

Guide Teacher : Hampreet Sidana and Nidhi Jain

Title: STUDY ON WEATHER AND CLIMATIC CHANGES AFFECTING COFFEE PRODUCTION IN WAYANAD

The impact of weather and climate on coffee production is directly involving with the factors like rainfall, temperature, humidity and other factors such as pest and diseases, fertilizers and manures etc. Material and method of study comprised with analysis of data on Rainfall, Temperature and Relative Humidity based on coffee production for the last 10 years — from 2004 to 2013. The data collected through field surveys on coffee planters, interview with experts, one to one discussions and focused group discussions with leading planters observed that average rainfall (2237.71 mm) per year was very much lower to the required quantity of 2500mm. In the year 2007/2008, total production of coffee was 39172 MT against yearly average of 51576 MT, which is less by 24.07%. In 2008/2009 production of coffee was 47081 MT, which is less by 8.71%. In 2009/2010 production of coffee was 49650 MT, which is less by 3.73%.

While analyzing the coffee outcome of Wayanad from 2004 to 2013, strongly indicated that the erratic rainfall and distribution of blossom and backup showers during the month Feb, March and April was less by 56% and 47% in the years 2007 and 2009, where as in the year 2008 it was excess by 17%. These fluctuations in the blossom and back up showers have resulted in decrease of coffee production by 24.04% in 2007, 8.71% in 2008 and 3.73% in 2009. The erratic rainfall and distribution in blossom and backup showers affected production of coffee in Wayanad district considerably.

Name of Team Members   Guide Teacher : Smt. Lekhitha K. C

Jagannath Rakesh (Team Leader)

Meenakshy Mohan

Anjali R Menon

Sharan Ajay

Emil Biju

Project Title: MEASURING HUMIDITY OF AIR BY CONDENSATION METHOD WITH THE HELP OF CHILLED WATER

The Objectives: Depending on the amount of relative humidity condensation of water vapour varies. We have tried to relate the volume of condensed water with relative humidity of air at a particular temperature.
With the help of thermometer and used injection syringe (for measuring the volume of water) we can presume the relative humidity seeing the volume of condensed water at home.

Objective wise Methodology & Work Plan: In a particular time span of ten minutes, at room temperature we noted the volume of condensed water collected in a measuring cylinder. At the same time we measured relative humidity by dry and wet bulb thermometer of that time span.

Experiments carried out: We have taken 500 ml water in each bottle of same type and put it in refrigerator. When it is about to be frozen, we took out them and waited till it comes to 3° C. Then we clamped the bottles and set a funnel and measuring cylinder to collect condensed water in it.

Observation: We have seen that at different relative humidity we have got collection of different volume of water. When humidity increases, the volume of collected condensed water has been increased and at low relative humidity volume of condensed water is lower.

Results: We have measured the relative humidity in that time by wet bulb and dry bulb thermometer. We have measured the collected condensed water also. We have seen, when relative humidity increases, the volume of collected condensed water also increases.

Analysis & Conclusion: We can get a chart/table by which seeing the volume of condensed water, we come to know the particular relative humidity of air at a particular temperature. These parameters are: 1. To maintain a particular temperature throughout the time span of experiment (10 minutes).
2. To take accurate measurement of the volume of condensed water.
3. To get the measurement of volume of condensed water at different values of humidity at a particular temperature.

Group Members :   Sreya Mondal   Guide Teacher : Rakhi Jana
                     Priynka Das
                     Tanushri Bera
Rittika Chakraborty
                     Trina Jana

PROJECT TITLE: SEASONAL PREVALENCE OF MOSQUITO-BORNE DISEASES IN CHONGERBON AND ADJOINING AREAS AND A HERBAL SOLUTION THERETO.

The Objectives:
• The relation of weather components (temperature, rainfall, relative humidity) with mosquito borne diseases.
• Prevalence of mosquito types.
• Mosquito life cycle.
• Consciousness of local people.
• An herbal and ecofriendly larvicide
Objective wise Methodology & Work Plan:
• Collection of weather component data for 62 days i.e Rainfall, maximum and minimum Temperature and Relative Humidity (RH).
• Household survey regarding prevalence of mosquito borne diseases in last 10 years and different aspects of mosquito related consciousness in 150 families.
• Collection and identification of larva from different breeding sources.
• Observation of different stages of mosquito life cycle.
• Applying Neem Oil (from leaves), turmeric, camphor, Kaalmegh, Neemtech (a Neem kernel extract commercial larvicide) to different larva samples.
Experiments carried out:
Herbal materials are applied separately in different controlled experimental conditions.
Observation:
• Larval identification by blunt (Aedes) or sharp (Culex) siphon tube.
• Emergence of adult mosquito from Pupal case and resting position (1 day).
• Immediate death of larva after applying Neemtech.
Results :
• Temperature and RH vary between 26.28°C-32.81°C and 66.45%-92.67% respectively.
• In rainy season Prevalence of mosquito borne diseases increases and Dengue (58%) predominates over Malaria (42%) (Based on survey).
• 48 out of 100 samples contain larva (Mostly Culex).
Analysis & Conclusion:
• Above mentioned temperature and RH variations are congenial for shortest mosquito life-cycle.
• Increase of stagnant water in the rainy season encourages mosquito breeding as reflected in our Survey reports. This builds up a correlation between weather and mosquito borne diseases.
• Consciousness of local people is very poor.
• Neemtech is an ecofriendly larvicide.

Team Member   Guide Teacher : Dr. Malyasree Bhattacharya
 Supriti Mondal (G.L)
Nurjahan Khatun
Maumita Mukherjee
Rupa Mistri
Aparna Mondal.

A STUDY ON THE EFFECT OF WEATHER ON PLANT GROWTH IN
BARREN SOIL USING DIFFERENT SOIL AMENDMENTS

Objective: Desertification occurs due to climatic factors and human activities. Different methods can be used to reverse desertification. This project aims to study the role of organic soil amendments in improving barren soil in varying weather conditions and the role of Synthetic Terra preta (STP), a biochar based manure.

Methodology: Vermi compost, Coir pith compost, Urban food waste compost, Farmyard manure (FYM) were procured and STP was prepared by us and treated with loamy soil (procured) and barren soil (collected from a decertified area in Puducherry). Brinjal saplings were planted, exposed to local weather factors and their weekly growth was studied from 21.9.2014 to 8.11.2014. Growth parameters like Height of the stem, no. of leaves and leaf area were measured. Weather parameters like temperature, humidity and rainfall were compiled from available sources. The physical, chemical and biological characteristics of the barren soil and its various amendments were analyzed at the end of the study.

Results and Discussion: Soil test of the barren soil sample showed normal pH and EC, but low N, P and K, low microbe count and high bulk density (bd) not supportive of plant growth. The various amendments considerably reduced the bd thus helping in better root penetration. Vermi compost, STP and FYM significantly improved plant growth parameters in both soils, whereas Coirpith compost and Urban food waste compost performed moderately. During high rainfall period rate of plant growth initially declined in all the soil amendments used. Following this the plant growth rate with Coirpith compost and FYM was inconsistent. But Vermi compost and STP showed steady plant growth rate, because of their ability to increase water holding capacity, slow release of rich nutrients and increased microorganisms which are required for the sustained plant growth irrespective of the climatic conditions.

Conclusion: To convert barren land into cultivable land, organic manures like STP, Vermi compost and FYM can be used as they recharge the nutrients in plenty and improve soil texture helping plants to withstand changing weather conditions.

Guide Teacher : Ms. A. Athira

Annexure- I
State Wise Details Of Projects

Table-1. State wise participation

State Name	Total Projects Registered	Total Projects Presented	Age Group		Gender		Area of participation	
			Lower	Upper	Female	Male	Urban	Rural
Andaman and Nicobar Islands	4	4	2	2	3	1	2	2
Andhra Pradesh	17	16	9	7	11	5	11	5
Arunachal Pradesh	10	10	1	9	4	6	1	9
Assam	26	26	11	15	12	14	9	17
Bihar	30	29	10	19	9	20	20	9
Chandigarh (U.T.)	4	4	2	2	2	2	4	
Chhattisgarh	16	16	6	10	8	8	8	8
Delhi	8	8	3	5	8		7	1
Goa	8	8	2	6	6	2	2	6
Gujarat	26	26	7	19	12	14	17	9
Haryana	16	16	7	9	7	9	8	8
Himachal Pradesh	16	16	6	10	11	5	11	5
Jammu and Kashmir	16	16	4	12	8	8	8	8
Jharkhand	14	14	5	9	8	6	8	6
Karnataka	30	29	12	17	16	13	15	14
Kendriya Vidyalaya Sangathan	41	33	13	20	11	22	25	8
Kerala	16	15	7	8	12	3	2	13
Lakshadweep	4	4	2	2	3	1		4
Madhya Pradesh	28	27	8	19	8	19	15	12
Maharashtra	30	28	10	18	13	15	14	14
Manipur	10	9	4	5	7	2	4	5
Meghalaya	8	7	1	6	5	2	5	2
Mizoram	8	7	1	6	7		5	2
Nagaland	8	8	1	7	6	2	6	2
Navodaya Vidyalaya Samiti	32	32	15	17	14	18	2	30
Odisha	26	26	11	15	13	13	26	
Puducherry	6	6	3	3	3	3	4	2
Punjab	16	16	7	9	9	7	7	9
Rajasthan	21	18	4	14	10	8	15	3
Tamilnadu	30	29	14	15	17	12	13	16
Telangana	13	13	7	6	8	5	4	9
Tripura	10	10	4	6	3	7	4	6
Uttar Pradesh	42	38	12	26	17	21	24	14
Uttarakhand	16	15	3	12	7	8	3	12
West Bengal	30	29	18	11	16	13	9	20
	636	608	232	376	314	294	315	290

Additionally, 6 participants from UAE and Bangladesh were registered, 2 and 4 respectively

Annexure- II

Table 2: Participants from Bangladesh and UAE

		Name	Country	Project Title
1.	1.	Mohammad Sadav Imtiaz Alam	Bangladesh	Carbon capture, storage and utilization
2.		Ibtida Raiyan Shaiba	Bangladesh	
3.	2.	Humaira Adiba	Bangladesh	Producing electricity from geothermal energy
4.		Nayeema Nusrat Arora	Bangladesh	
5.	3.	Nabil Fazleh Rahman	Bangladesh	Solar radiation management
6.	4.	Sayef Iqbal	Bangladesh	Health impacts of a warmer world
7.			UAE	
8.			UAE	
9.				
10.				
11.				
12.				
13.				
14.				
15.				

Annexure- III

Table – 3(A). State wise status of project

State Name	A		B+		B		C+		C		Grand Total
Andaman and Nicobar Islands		-	2	1.1%	2	0.7%		-		-	4
Andhra Pradesh		-	7	3.9%	6	2.0%	3	3.1%		-	16
Arunachal Pradesh	1	3.6%	6	3.3%	1	0.3%	2	2.1%		-	10
Assam	3	10.7%	12	6.7%	10	3.3%	1	1.0%		-	26
Bihar	1	3.6%	7	3.9%	15	5.0%	6	6.2%		-	29
Chandigarh (U.T.)		-	2	1.1%	1	0.3%	1	1.0%		-	4
Chhattisgarh		-		-	12	4.0%	4	4.1%		-	16
Delhi		-	4	2.2%	4	1.3%		-		-	8
Goa		-	4	2.2%	3	1.0%	1	1.0%		-	8
Gujarat		-	5	2.8%	15	5.0%	6	6.2%		-	26
Haryana		-	8	4.4%	6	2.0%	2	2.1%		-	16
Himachal Pradesh	2	7.1%	5	2.8%	8	2.6%	1	1.0%		-	16
Jammu and Kashmir	1	3.6%	2	1.1%	10	3.3%	3	3.1%		-	16
Jharkhand	1	3.6%	2	1.1%	9	3.0%	2	2.1%		-	14
Karnataka	1	3.6%	6	3.3%	14	4.6%	8	8.2%		-	29
Kendriya Vidyalaya Sangathan		-	5	2.8%	20	6.6%	8	8.2%		-	33
Kerala		-	11	6.1%	4	1.3%		-		-	15
Lakshadweep		-	1	0.6%	2	0.7%	1	1.0%		-	4
Madhya Pradesh	1	3.6%	3	1.7%	16	5.3%	7	7.2%		-	27
Maharashtra	1	3.6%	14	7.8%	13	4.3%		-		-	28
Manipur		-	1	0.6%	8	2.6%		-		-	9
Meghalaya		-	1	0.6%	5	1.7%	1	1.0%		-	7
Mizoram		-		-	3	1.0%	4	4.1%		-	7
Nagaland		-		-	7	2.3%	1	1.0%		-	8
Navodaya Vidyalaya Samiti		-	4	2.2%	23	7.6%	5	5.2%		-	32
Odisha	2	7.1%	5	2.8%	12	4.0%	7	7.2%		-	26
Puducherry	2	7.1%	3	1.7%	1	0.3%		-		-	6
Punjab		-	9	5.0%	5	1.7%	2	2.1%		-	16
Rajasthan	2	7.1%	6	3.3%	8	2.6%	2	2.1%		-	18
Tamilnadu		-	6	3.3%	16	5.3%	6	6.2%	1	100.0%	29
Telangana	1	3.6%	4	2.2%	6	2.0%	2	2.1%		-	13
Tripura	1	3.6%	4	2.2%	4	1.3%	1	1.0%		-	10
Uttar Pradesh	3	10.7%	7	3.9%	21	7.0%	7	7.2%		-	38
Uttarakhand		-	5	2.8%	8	2.6%	2	2.1%		-	15
West Bengal	5	17.9%	19	10.6%	4	1.3%	1	1.0%		-	29
Grand Total	28		180		302		97		1		608

Grading pattern

Grades	A+	A	B+	B	C+	C
Total Marks	More than or equal to 90	Less than 80	Less than 70	Less than 60	Less than 50	less than 50

Annexure- IV

Table 3(B): Break-up of Projects in different Grades in respective State

State	A (1) (1/6)		B+ (2) (2/6)		B (3) (3/6)		C+ (4) (4/6)		C (5) (5/6)		Total (6) (6/6)
Andaman and Nicobar Islands	-		2	50.0%	2	50.0%	-		-		4
Andhra Pradesh	-		7	43.8%	6	37.5%	3	18.8%	-		16
Arunachal Pradesh	1	10.0%	6	60.0%	1	10.0%	2	20.0%	-		10
Assam	3	11.5%	12	46.2%	10	38.5%	1	3.8%	-		26
Bihar	1	3.4%	7	24.1%	15	51.7%	6	20.7%	-		29
Chandigarh (U.T.)	-		2	50.0%	1	25.0%	1	25.0%	-		4
Chhattisgarh	-		-		12	75.0%	4	25.0%	-		16
Delhi	-		4	50.0%	4	50.0%	-		-		8
Goa	-		4	50.0%	3	37.5%	1	12.5%	-		8
Gujarat	-		5	19.2%	15	57.7%	6	23.1%	-		26
Haryana	-		8	50.0%	6	37.5%	2	12.5%	-		16
Himachal Pradesh	2	12.5%	5	31.3%	8	50.0%	1	6.3%	-		16
Jammu and Kashmir	1	6.3%	2	12.5%	10	62.5%	3	18.8%	-		16
Jharkhand	1	7.1%	2	14.3%	9	64.3%	2	14.3%	-		14
Karnataka	1	3.4%	6	20.7%	14	48.3%	8	27.6%	-		29
Kendriya Vidyalaya Sangathan	-		5	15.2%	20	60.6%	8	24.2%	-		33
Kerala	-		11	73.3%	4	26.7%	-		-		15
Lakshadweep	-		1	25.0%	2	50.0%	1	25.0%	-		4
Madhya Pradesh	1	3.7%	3	11.1%	16	59.3%	7	25.9%	-		27
Maharashtra	1	3.6%	14	50.0%	13	46.4%	-		-		28
Manipur	-		1	11.1%	8	88.9%	-		-		9
Meghalaya	-		1	14.3%	5	71.4%	1	14.3%	-		7
Mizoram	-		-		3	42.9%	4	57.1%	-		7
Nagaland	-		-		7	87.5%	1	12.5%	-		8
Navodaya Vidyalaya Samiti	-		4	12.5%	23	71.9%	5	15.6%	-		32
Odisha	2	7.7%	5	19.2%	12	46.2%	7	26.9%	-		26
Puducherry	2	33.3%	3	50.0%	1	16.7%	-		-		6
Punjab	-		9	56.3%	5	31.3%	2	12.5%	-		16
Rajasthan	2	11.1%	6	33.3%	8	44.4%	2	11.1%	-		18
Tamilnadu	-		6	20.7%	16	55.2%	6	20.7%	1	3.4%	29
Telangana	1	7.7%	4	30.8%	6	46.2%	2	15.4%	-		13
Tripura	1	10.0%	4	40.0%	4	40.0%	1	10.0%	-		10
Uttar Pradesh	3	7.9%	7	18.4%	21	55.3%	7	18.4%	-		38
Uttarakhand	-		5	33.3%	8	53.3%	2	13.3%	-		15
West Bengal	5	17.2%	19	65.5%	4	13.8%	1	3.4%	-		29
Grand Total	28	4.6%	180	29.6%	302	49.7%	97	16.0%	1	0.2%	608

Annexure- V

Table – 3(C): Break-up of Projects in different Languages in respective Grade

Language	A		B+		B		C+		C		Total	
Assamese	2	7.1%	6	3.3%	5	1.7%	-		-		13	2.1%
Bengali	5	17.9%	22	12.2%	7	2.3%	-		-		34	5.6%
Bodo	-		1	0.6%	1	0.3%	-		-		2	0.3%
English	18	64.3%	106	58.9%	186	61.6%	55	56.7%	-		365	60.0%
English / Hindi	-		2	1.1%	3	1.0%	-		-		5	0.8%
Gujarati	-		-		7	2.3%	4	4.1%	-		11	1.8%
Hindi	2	7.1%	17	9.4%	49	16.2%	19	19.6%	-		87	14.3%
Kannada	-		3	1.7%	7	2.3%	5	5.2%	-		15	2.5%
Konkani	-		-		2	0.7%	-		-		2	0.3%
Malayalam	-		8	4.4%	4	1.3%	1	1.0%	-		13	2.1%
Marathi	-		6	3.3%	11	3.6%	-		-		17	2.8%
Odia	1	3.6%	1	0.6%	6	2.0%	6	6.2%	-		14	2.3%
Punjabi	-		3	1.7%	2	0.7%	2	2.1%	-		7	1.2%
Tamil	-		3	1.7%	7	2.3%	2	2.1%	1	100.0%	13	2.1%
Telugu	-		2	1.1%	5	1.7%	3	3.1%	-		10	1.6%
Grand Total	28		180		302		97		1		608	

Annexure- VI

Table 3(D): Break-up of Projects in different Grades in respective Language

Language	A (1) (1/6)		B+ (2) (2/6)		B (3) (3/6)		C+ (4) (4/6)		C (5) (5/6)		Grand Total (6)
Assamese	2	15.4%	6	46.2%	5	38.5%	-		-		13
Bengali	5	14.7%	22	64.7%	7	20.6%	-		-		34
Bodo	-		1	50.0%	1	50.0%	-		-		2
English	18	4.9%	106	29.0%	186	51.0%	55	15.1%	-		365
English / Hindi	-		2	40.0%	3	60.0%	-		-		5
Gujarati	-		-		7	63.6%	4	36.4%	-		11
Hindi	2	2.3%	17	19.5%	49	56.3%	19	21.8%	-		87
Kannada	-		3	20.0%	7	46.7%	5	33.3%	-		15
Konkani	-		-		2	100.0%	-		-		2
Malayalam	-		8	61.5%	4	30.8%	1	7.7%	-		13
Marathi	-		6	35.3%	11	64.7%	-		-		17
Odia	1	7.1%	1	7.1%	6	42.9%	6	42.9%	-		14
Punjabi	-		3	42.9%	2	28.6%	2	28.6%	-		7
Tamil	-		3	23.1%	7	53.8%	2	15.4%	1	7.7%	13
Telugu	-		2	20.0%	5	50.0%	3	30.0%	-		10
Grand Total	28	4.6%	180	29.6%	302	49.7%	97	16.0%	1	0.2%	608

Table -3. Evaluator participated in the programme

1. Dr. A. K. Bhargava
2. Dr. Avtar Singh Dhinsa
3. Dr. B. M. Venkatesha
4. Dr. B. S. Biradar
5. Ms. Bianca Brahma
6. Dr. Brijesh Pare
7. Prof. C. G. Hawaldar
8. Dr. C.S. Sharma
9. Dr. Cr. Sachchyidanand
10. Prof. D.R. Roopa
11. Dr. E. Kunhikrishnan
12. Dr. Girish K.G.
13. Mr. Gokul Krishna Panda
14. Dr. Gopal Krishna Naik
15. Mr. H H Kumar
16. Mr. H S Prakash
17. Dr. Harish R. Bhat
18. Dr. Hemant Pande
19. Dr. IndraniSuryaprakash
20. Mr. J Chandra Shekhar Rao
21. Mr. Jayakar Bhandari
22. Mr. Jayanta Kr. Sarma
23. Dr. Jitendra Gavali
24. Prof. K. C. Kulkarni
25. Dr. K. Sambandan
26. Mr. K. Srinavas Prasad
27. Dr. Kanak Lata
28. Dr. Lalit Sharma
29. Dr. Megha Bhatt
30. Ms. Monita Dash
31. Dr. N. S. Leela
32. Dr. N. S. Murali
33. Mr. Nandagopal P.
34. Ms. Neha Sharma
35. Mr. P. C. Parida
36. Dr. P. Harinarayan
37. Dr. P. Nagaraju
38. Dr. P. Nagaraju
39. Mr. Prabahan Chakravorty
40. Mr. Prakash H.S
41. Dr. Pulin Behari Chakraborty
42. Dr. R. T. Radhika
43. Dr. Ramakrishna
44. Prof. Rangaswamy
45. Dr. S. Vijayalakshmi
46. Dr. Saroj Sharma
47. Dr. SK Wanchoo
48. Mr. Subhramanya S. R
49. Dr. Sudip Mitra
50. Dr. Suhas Udhapurkar
51. Dr. Sunil Dubey
52. Dr. Sunil Nautiyal
53. Mr. T.P. Raghunath
54. Dr. U K Sharma
55. Er. U. N. Ravi Kumar
56. Dr. V. Girish
57. Dr. V. N. Nayak
58. Dr. V.P. Singh
59. Dr. Vasanth Kumar
60. Dr. Veeresh Rampur
61. Dr. Vinod Lakkapan
62. Dr. Y. Tulajappa

Annexure- VII

Table -4. Presentation status in different Sessions

Hall Nos.	27/12/2014 Afternoon		28/12/2014 Morning		28/12/2014 Afternoon	
	Allotted	Presented	Allotted	Presented	Allotted	Presented
Room No. 102	10	10	9	9	9	9
Room No. 103	10	10	9	9	9	9
Room No. 104	10	9	8	3	7	6
Room No. 106	11	11	16	16	9	9
Room No. 108	10	10	16	16	7	6
Room No. 111	10	10	16	15	10	6
Room No. 112	10	10	16	15	9	8
Room No. 113	10	10	16	14	9	9
Room No. 114	10	9	15	15	8	8
Room No. 115	10	9	16	15	10	10
Room No. 202			16	16	10	9
Room No. 203			16	15	10	8
Room No. 204	15	15	16	16	10	10
Room No. 205	15	14	16	15	10	10
Room No. 207			16	14	10	10
Room No. 212			16	16	9	8
Room No. 213			16	15	9	9
Room No. 214	15	15	16	16	9	9
Room No. 215	15	14	16	16	9	8
Room no. 216			16	16	9	9
Grand Total	161	156	297	282	182	170

Annexure- VIII

Table – 5. Detail of project registered with their grades of the projects presented at NCSC-2014, Bengaluru (NB: This list includes the names of absentees also)

	State Name	Name	Project Title	Grade
1.	Andaman and Nicobar Islands	Adersh Ramesh Pillai	Weather climate and Agriculture	B+
2.	Andaman and Nicobar Islands	M. Marshe	To Protect Ozone Layer	B
3.	Andaman and Nicobar Islands	Mahika Sharma	Human Resilience to Weather Condition	B
4.	Andaman and Nicobar Islands	Nirnita Das	Scope of Agro-forestry for climate change mitigation and ecosystem services	B+
5.	Andhra Pradesh	A. Chowdeswari	Understanding weather and climate	B
6.	Andhra Pradesh	A. Hari Sri Jayanth	Conservation Agriculture for sustainable land use	B
7.	Andhra Pradesh	A.V.Divya	Bio-waste management	C+
8.	Andhra Pradesh	B. Raviteja	Human Vs. Climate	B+
9.	Andhra Pradesh	B. Sravani	Deflouridation of water	B
10.	Andhra Pradesh	C. Vaishnavi	Combating extreme weather conditions with integrated agro farming	B+
11.	Andhra Pradesh	Ch. Vishnu Priya	Extinction of Dragonflies due to climatic changes	Absent
12.	Andhra Pradesh	L. Gitika Patnaik	Ants too understand weather and climate	B
13.	Andhra Pradesh	M. Sree Chetan	Mulching	B+
14.	Andhra Pradesh	M. Vennela	Creating awareness among people to reduce green-house effect	B+
15.	Andhra Pradesh	P. Mercy	The effect of mangrove loss on the impact of cyclone in the coastal area	B+
16.	Andhra Pradesh	S. Uma Maheswara Rao	Atmospheric Warning	C+
17.	Andhra Pradesh	Shaik Famida	School Uniforms according to Seasons	C+
18.	Andhra Pradesh	Shaik Juveria	Ozone depletion and Global Warning	B
19.	Andhra Pradesh	T. Bhargav	Solar heat fuel - the monsoon engine. Effect of common crow butterfly life cycle and population growth in our village 2013-14	B
20.	Andhra Pradesh	T. Divya	Green World - Through sustainable practices	B+
21.	Andhra Pradesh	Y. Yochana	Dengue Transmission	B+
22.	Arunachal Pradesh	Chau Jeyhoung Jenow	Soil Moisture for Successful Cultivation of Crops- A Case Study of Maha Hill Top	A
23.	Arunachal Pradesh	Jasmine Cheda	A Study on the impact of Climate Change on the Wild life of Pakke Tiger Reserve in East Kameng District	B+

	State Name	Name	Project Title	Grade
24.	Arunachal Pradesh	Kipa Tachuk	Study of Migration of Animals and Plants in relation with Weather and Climate in Potin and Amchi Villages	B+
25.	Arunachal Pradesh	Lukmer Bujuk	The Study of Changing Weather, Climate and Agricultural Patterns in Daporijo and its Surroundings	B+
26.	Arunachal Pradesh	Millo Dacha	Study of Weather Changes of Roing Area and An Attempt to Reduce Air Pollution	B+
27.	Arunachal Pradesh	Mungthan Mossang	Impact of Weather and Climate on the Cultivation of Essential Crops	C+
28.	Arunachal Pradesh	Neeraj Kumar Chutia	Impact of N2O emitted by Fertilizers and Vehicles on Weather and Climate in Daporijo	B+
29.	Arunachal Pradesh+	Pipi Gao	Association of Weather and Anthropogenic Factor for Transmission of Japanese Enchephalitis in Dhemaji District	B
30.	Arunachal Pradesh	Sachchidanand Soahm Gupta	Effects of Changing Weather Parameters on Climate of Changlang District with Special Reference to Jairampur Circle	C+
31.	Arunachal Pradesh	Toyir Kamgo	Impact of Firewood Collection on Weather and Climate of Jirdin Village	B+
32.	Assam	Amlanjyoti Gogoi	Weather prediction by observation of clouds	B
33.	Assam	Anisha Hoque Laskar	Impact of temperature and rainfall on ecosystem	B
34.	Assam	Ansuman Hazarika	Relationship of weather with chicken pox: A case study from Biswanath Chariali	B+
35.	Assam	Arup Chatterjee	Development unparallel with conservation of nature	B+
36.	Assam	Arup Jyoti Das	Conservation of endangered fish with the help of Tora plant	B+
37.	Assam	Barasha Barman	Assam type house: suitable house for Assam	B+
38.	Assam	Bhagyashree Dutta	Impact of weather on variation of weights of chicken eggs.	A
39.	Assam	Bhairabi Borah	Procedure of dry system of the raw materials with the help of solar dryer in summer season & its conservation	B+
40.	Assam	Bravee Dutta	Intensive cultivation by bio-humic mixture	C+
41.	Assam	Chelsia Naorem	Carbon sequestration-a solution to reducing climate change	B+
42.	Assam	Dwigbijoy Sarma	A brief study on the impact of local weather on the life cycle of Golden Tortoise Beetle	B+

	State Name	Name	Project Title	Grade
43.	Assam	Harsita Choudhury	Effect of light, water and elevation on seedling growth of maize and French-bean	B
44.	Assam	Himangshu Saikia	A study on traditional process of seed selection at Phillobari area	B
45.	Assam	Himanku Dowarah	Life cycle of eri silkworm and its relation with weather	B
46.	Assam	Jajna Pratim Saikia	Local factors of change in climate and detection of their influences in Narayanpur area	B
47.	Assam	Janmoni Kurmi	A study of different elements of weather of Bhogonia area of Jorhat	B+
48.	Assam	Moloy Paul	Impact of weather on rice cultivation	B
49.	Assam	Nihar Sarma	Alternative approach of soil resource management for climate change adaptation- An experimental observation with water hyacinth application	B+
50.	Assam	Niharika Deuri	Germination of different kinds of seeds in different temperature	A
51.	Assam	Niranjan Dutta	Varieties of rice for flood affected area weather climate and agriculture	B
52.	Assam	Parijit Bora	Hygrometer made out of cowdung	A
53.	Assam	Pulmati Daimary	Impact of the August rain on the chilli plants	B
54.	Assam	Ruchiraj Madhukalya	A comparative study of different breeds of cow in relation to adaptability and productivity	B
55.	Assam	Sangyukta Das	A study on impact of weather and climate on agriculture of Duliajan area in Dibrugarh district	B+
56.	Assam	Santoshi Narzary	Advantages of potato storage in bamboo shelves	B+
57.	Assam	Sujit Gautam	A study on human comfort in Assam, based on weather variables : A case study	B+
58.	Bihar	Aditya Anand	Study of the effect of weather on soil pH, moisture, temperature and organic matter	B
59.	Bihar	Ajay Kumar	Kacharon Ka Ambar - Mausam Hua Beemar	B
60.	Bihar	Amit Kumar Ranjan	Stomata count for oxygen excretion for various plants	B
61.	Bihar	Anjali Kumari	Cause of Dengue Fever and Its Remedy	B

	State Name	Name	Project Title	Grade
62.	Bihar	Ankit Kumar	Use of blue green algae to improve the soil	C+
63.	Bihar	Aryan	Device for Controlling Ecological Balance	C+
64.	Bihar	Chhaya Kumari	Impact of Weather on milch animal's health	B
65.	Bihar	Dadan Kumar	Mausam Ke Anukool Dhaicha Ki Kheti Se Kisanon Ki Aarthik Aay Ke Upay	C+
66.	Bihar	Hari Om	Effect of Changed Weather and Climate on School Children's Health	B+
67.	Bihar	Istapriya Singh	Study of Different Parameters of Weather in Ara Town	B
68.	Bihar	Kajal Kumari	To study on the impact of moisture intensity , humidity and atmospheric temeparature	B
69.	Bihar	Kunal Anand	ERV as ecofriendly tools for disaster rescue operation	B
70.	Bihar	Manish Kumar	Impact of Weather and Climate on Reproductive Health of Animals	B+
71.	Bihar	Manohar Kumar	Dhumrakan Ka Prakash Sanshleshn Par Prabhav Gyat Kar Hal Dhudhna.	B+
72.	Bihar	Md. Kashif Ansari	Sthaniye Gramin Kahawaton Ke Adhar Par Mausam Purvanuman	B
73.	Bihar	Md. Masoom Reja	Samajik Star Par Girate Swasthya Evam Mausam	C+
74.	Bihar	Md. Mubtada Yasin	Weather Climate and its affect on health.	B
75.	Bihar	Musarat Praveen	Automatic Rain Gauge	C+
76.	Bihar	Nikita Kumari	To Study the effect of Dengu due to Weather Change	Absent
77.	Bihar	Nilesh Bhaskar	Mitigation of Flood and Water Logging ; A Monsoon Malaise	B
78.	Bihar	Ranjan Kumar	Use of Bicycles In the place of motorized vehicles and reduction in carbon footprint	C+
79.	Bihar	Ravi Ranjan Pandey	Impact of dusty and dust free area on the growth of a vegetable plant - a study	A
80.	Bihar	Ravina Kumari	Comparative study of making food by traditional and modern way with referencce to carbon emission	B+
81.	Bihar	Sakshi Kumari	Effect of weather and climate on peoples' health in local Area	B+
82.	Bihar	Shivani Singh	Impact of Human Activities on Weather and Climate	B+
83.	Bihar	Shree Om Arya	Social Weather Casting Tools	B

	State Name	Name	Project Title	Grade
84.	Bihar	Siddarth Satyam	Hydroponics - To Reduce Carbon & Water Footprint in Changing Climatic Scenario	B
85.	Bihar	Sohaib Akhtar	Spreading awareness on Weather and Climate diseases	B
86.	Bihar	Sonu Kumar	Mapping of seasonal diseases related to weather and climate of supaul district	B+
87.	Bihar	Tushi Kumari	Mausam Parivartan : Paramparagat Gyan Banam Purvanuman	B
88.	Chandigarh (U.T.)	Anagh Sharma	Waste Management Farm	B
89.	Chandigarh (U.T.)	Anshika	Impact of weather and Climate on Human Respiratory System	C+
90.	Chandigarh (U.T.)	Dyuti Ahaudhary	Creamation and Climate	B+
91.	Chandigarh (U.T.)	Uddhav Aggarwal	Combating Climate Change C - The Footprint you Leave	B+
92.	Chhattisgarh	Ananya Pande	Effect of Weather and Climate on Rice Crops in Raipur District	C+
93.	Chhattisgarh	Anita Dhruw	Comparison of Traditional & Scientific Methods of Prediction of Weather-A Case Study of Syahimudi	B
94.	Chhattisgarh	B.Harish	Weather and Climate Related Water Level Decreasing	C+
95.	Chhattisgarh	Bhupendra Shukla	Weather & Climate Effect in Social Life	B
96.	Chhattisgarh	Diksha Sahu	Harmfull Effect on City Area During Collection of Domestic Wastage	B
97.	Chhattisgarh	Divyanshu Gupta	Building up of an Eco Friendly Air Conditioner With Lots of Benefits	B
98.	Chhattisgarh	Durgesh Kumar Urmalia	Management of Adani Mines in Udaypur,Sarguja	B
99.	Chhattisgarh	Jaya Yadav	A study on Chhattisgarh Folk Festival-Society,Culture & Weather	B
100.	Chhattisgarh	Jyoti Sharma	Manviya Gatividhiyo Dwara Mausam Avam Paryavaran Mea Parivartan	B
101.	Chhattisgarh	Kamlesh Sahu	An Approach to Find Cheaper and Greener Source of Electricity	B
102.	Chhattisgarh	Kishor Kumar Uikey	Mausam Gyan Anubhwi Kisan	B
103.	Chhattisgarh	Ku. Jyoti Nashine	Conservation Of Monuments & Idols	B
104.	Chhattisgarh	Mehul Dewangan	Study of Effect of Burned Crackers Burned in Festivals on Weather	B
105.	Chhattisgarh	Shruti Halder	Weather, Climate,Culture & Society	C+
106.	Chhattisgarh	Vaibhav Dixit	Herbal Mosquito Coil	B

	State Name	Name	Project Title	Grade
107.	Chhattisgarh	Vicky Kumar Patel	Study of Impact on Traditional Crops in our Locality due to Weather and Climate Change	C+
108.	Delhi	Aakriti Datta	Scientific Realisation of Noveco Diesel as Future Fuel	B+
109.	Delhi	Anushka	Urban Heat Islands in Delhi	B+
110.	Delhi	Arfia Nikhat	Life Style and Carbon Footprint	B+
111.	Delhi	Deepali Jain	To do Mapping of Weather Related Diseases in Our Locality and their Effects on Income Loss	B
112.	Delhi	Harshita Gupta	To Study the Impact of Urbanisation and Waste Generation on Components of Weather	B
113.	Delhi	Mannat	Weedenol Our Future Fuel	B
114.	Delhi	Sonali Goel	Climate Effect: The Power of 3Cs Control, Clear, Convert	B
115.	Delhi	Soumya Santati	Impact of Climate Change on Human Health	B+
116.	Goa	Allan J. Almeida	Study of Agricultural Practices in Tiswadi, Goa in terms of Changing weather	C+
117.	Goa	Arya Jadhav	Studies on Vector Borne Diseases prevalent in our locality	B+
118.	Goa	Dhruv P. Bhende	Strawberry cultivation in Verlem, Sanguem Goa.	B
119.	Goa	Gyatri Bhonsle	Effect of weather on Biomass production of Maize plant -a case study	B+
120.	Goa	Ombali B. Naik	Effect of Weather on soil fauna	B
121.	Goa	Pranjali V. P. Dessai	Spread of diseases due to change in Weather	B
122.	Goa	Vaishnavi Joshi	Effect of Heavy Rainfall on Paddy Cultivation	B+
123.	Goa	Varsha Mahabal	Studying Traditional food practices among the Dhangar Community	B+
124.	Gujarat	Aniket Sunilbhai Shah	Impacts of Human Activities on Weather and Climate- Waste Generation Area Motera and Gandhinagar	B
125.	Gujarat	Ayushi Patel	Monitoring Air and Water Pollution in Our Locality	B
126.	Gujarat	Dhiraj Parvani	Climate Change and Health	B
127.	Gujarat	Hudda Shelina Rafikbhai	The Urban Area of Surendranagar Pollution in Drinking Water and Study the Causes of Diseases from it	B

	State Name	Name	Project Title	Grade
128.	Gujarat	Jeet H Thakkar	Study of Weather Related Diseases in Maninagar Locality Spread and Treatment, Expenditure	B+
129.	Gujarat	Kajal M Jadeja	Effect of Weather and Climate on Fisheries of Porbandar	C+
130.	Gujarat	Kajal Parmar	The Effect of Day To Day Life on The Environment of The Area –Dhrol	B
131.	Gujarat	Karan Mehta	Climate, Weather and Agriculture (R)	B
132.	Gujarat	Kartik Pankajbhai Mevala	Study of Critical Effect of Inner Atmosphere of the Modern Houses with Glass V/S the Simple One	B+
133.	Gujarat	Ladani Krupa Dineshkumar	A study: A change in Density of Milk of domestic animal by climate food and care	B
134.	Gujarat	Meet Maheshbhai Gajjar	The Effect of A.C on Climate and Weather in Ranip Area	B
135.	Gujarat	Mitu R Prajapati	To Study the Effect of Climate Change on Agriculture of Village Jitoda & its Solution	B
136.	Gujarat	Om Monpara	Solar Crematorium (R)	B
137.	Gujarat	Pandya Devanshi Jayeshbhai	Understanding of Climate and Weather	C+
138.	Gujarat	Parikshit Joshi	Weather Climate and Health	B+
139.	Gujarat	Parmar Artiben Rajabhai	Analysis of the lowest and the highest Temperature of Surendranagar in different season of the previous Year	C+
140.	Gujarat	Pathan Sajid Anwar	Climate Weather and Agriculture	B
141.	Gujarat	Princy P Tripathi	Weather Climate and Agriculture	B
142.	Gujarat	Qureshi Bushra M	Understanding Weather Around You	C+
143.	Gujarat	Rahul Modi	Effect of Climate & Weather on Biodiversity	B
144.	Gujarat	Rinkal Makwana L	Effect Due to Change in Temperature Indicate	B
145.	Gujarat	Shaheen Shajahan	Impacts of Human Activities on Weather and Climate	B+
146.	Gujarat	Shruti Nitinbhai Thakkar	Is Our Agriculture Climate Smart?	B+
147.	Gujarat	Tanmay Prajapati	Suitability of Soils for Growing Crops	C+
148.	Gujarat	Utsav Vyas	Regional self developed methods of rain water harvesting & its usages (U)	C+
149.	Gujarat	Veena Mithwani	Weather Climate and Ecosystem	B
150.	Haryana	Aaditya Chopra	Analysis of solid waste generation,management and disposal and its effect on weather and climate.	B+

	State Name	Name	Project Title	Grade
151.	Haryana	Ajay Kumar	Pollution due to School waste and its management.	B
152.	Haryana	Bhateri	To Study the Absorption capacity of CO2 in plants.	B+
153.	Haryana	Deepti	Problem to burnig of paddy waste and its solution.	B
154.	Haryana	Divy Agrawal	Impact of Glass Claddings in modern buildings and study of Microclimate inside versus ordinary Building	B+
155.	Haryana	Himanshu Malik	Self Help in Waste mangagement	B+
156.	Haryana	Mani Sankar	Ecofriendly Telecommunication	B
157.	Haryana	Navya Malhotra	Hospital based studies on various skin diseases related to Weather & Climate.	B+
158.	Haryana	Pankaj	To study Air plooution and water pollution at local level	C+
159.	Haryana	Paritosh	Interdependence of Flora,Fauna and Microclimate.	B+
160.	Haryana	Rahul Panghal	Comparative study of Recommended agricultural practices & actual practices	C+
161.	Haryana	Rupesh Kumar	Sand mining and its conseqences	B+
162.	Haryana	Shivani	Effect of Electromagnetic field of high power line on Rice Plant growing beneath.	B
163.	Haryana	Shweta Bhardwaj	Water Pollution in nearby Poultry farms.	B
164.	Haryana	Sonali	To study the effect of changing pattern of monsoon on agriculture in Premnagar and Pehladgarh.	B+
165.	Haryana	Tannu	Crops Mitra keet and Crops Health	B
166.	Himachal Pradesh	Km. Arushi Walia	Changing in Cropping pattern in our Locality.	A
167.	Himachal Pradesh	Km. Girisha Sood	Air Pollution During Dussehra Festival in Relation to Human Health & Weather	B
168.	Himachal Pradesh	Km. Kanchan Devi	Effect of change in temperature and rain fall on Dragon Fly Population	B
169.	Himachal Pradesh	Km. Pragti	Understanding a Man Made Eco-System	C+
170.	Himachal Pradesh	Km. Samriti Thakur	Impact of Construction work on the Land Resources and Environment of Rampur Bushahr	B
171.	Himachal Pradesh	Km. Shagun Pathak	Weather Parameters & Biotic Phenology of the survey area Barmana Jukhala Panjgain(BJP)	A
172.	Himachal Pradesh	Km. Shalu Sagar	Carbon Footprint of Electricity Consumption	B+

	State Name	Name	Project Title	Grade
173.	Himachal Pradesh	Km. Shanya Moudgil	Organic matter addition and Crop Growth.	B+
174.	Himachal Pradesh	Km. Shivani Chouhan	Changing in Maize Cultivation and Impact on Soil and Environment	B
175.	Himachal Pradesh	Km. Shreya Sharma	Garbage Problem & Solution	B
176.	Himachal Pradesh	Km. Simran	Reducing GHG Emission.	B+
177.	Himachal Pradesh	Mr. Elish Hiteshi	Weather Climate & Agriculture.	B
178.	Himachal Pradesh	Mr. Keshav Ram	A case Study on emmission of carbon Dioxide From Different type of chulhas in Kararsu Panchyat .	B
179.	Himachal Pradesh	Mr. Parav Thakur	A Threat Everyone knows but Refuses to believe.	B+
180.	Himachal Pradesh	Mr. Priyanshu Sharma	Climate Crisis Carbon Footprints of Human Life Style.	B
181.	Himachal Pradesh	Mr. Rahul	Evaluation of Residences of Human along Gasoti Khud	B+
182.	Jammu and Kashmir	Akhilesh Angurana	The Merciless Weather-The Saddal Basrota Tragedy	B
183.	Jammu and Kashmir	Aryan Sethi	To study the presence of multiple pollutants in nature	B
184.	Jammu and Kashmir	Dheeraj Singh	Humari Shan Saffron	B
185.	Jammu and Kashmir	Harshdeep Singh	Low cost Micro meterological Station	B
186.	Jammu and Kashmir	Iftisaam Nisar	Smoke is Spoiling Me ! Please Help	B
187.	Jammu and Kashmir	Maidah Iftikhar	Sweeping the kiln Pollution Under Carpet	B+
188.	Jammu and Kashmir	Mandeep Singh	Setting of low cost weather station	C+
189.	Jammu and Kashmir	Mehvish Manzoor	Effects Of Industrialisation on health	A
190.	Jammu and Kashmir	Mir Muntaha Hassan	Climate change And Its Effect On Agriculture	B
191.	Jammu and Kashmir	Muneeb Masoodi	hukh suin a Way to Cancer	B
192.	Jammu and Kashmir	Nidhi Singh	Effect of plants on weather and climate changes	B
193.	Jammu and Kashmir	Priyanka	Impact of weather and Climate on Agricultura	C+
194.	Jammu and Kashmir	Ruchita Bhatia	Human Havoc in Nature	B
195.	Jammu and Kashmir	Sahib Dawood	Frozen Pipes	B
196.	Jammu and Kashmir	Shahbaz Hussain	Bed with Care	C+
197.	Jammu and Kashmir	Toiba Hilal	Shrinking Kolhai,agift of Human Activities	B+
198.	Jharkhand	Abhishek Kumar Singh	Industrialisation effected Mahuda's atmosphere	B
199.	Jharkhand	Amrita Kumari	Malaria	B

	State Name	Name	Project Title	Grade
200.	Jharkhand	Ankita Kumari	Effects of seasons in health of people in Deoghar	B+
201.	Jharkhand	Gopinath Barat	Litter trap	B
202.	Jharkhand	Medha Krishnan	Survive in climatic changes with Nicotiana (Nt) green insecticide	B
203.	Jharkhand	Meena Paik	Study & measurement of filtration capacity of soil	B+
204.	Jharkhand	Nidhi Deo	The influence of climate	C+
205.	Jharkhand	Rinki Kumari	Effect of weather on houses in rural area	B
206.	Jharkhand	Sujeet Kr. Pandit	Effects of stone crusher mining on photosynthesis	B
207.	Jharkhand	Sulakshana Kumari	Understanding weather and climate	B
208.	Jharkhand	Suraj Singh	Pollution less city	B
209.	Jharkhand	Sushma Sanga	Epidemicity of malaria and its prevention	B
210.	Jharkhand	Tapan Kumar	Bad effect of stone crusher mill on local weather	A
211.	Jharkhand	Yash Gupta	Hi-tech kitchen roof farming	C+
212.	Karnataka	Abhishek	Have vayuguna mathu makkala aarogya	C+
213.	Karnataka	Anuja H.	Bithida beejagalu mooru havamanakke prayojanagalu halavaru	C+
214.	Karnataka	Ashwin Kumar M. Hiremath	Humkan impact plastic is our friend	B
215.	Karnataka	Basanagouda	Improvised wood stove for good health and weather	B
216.	Karnataka	Bharath Tiwari	Use bio furel and save earth	C+
217.	Karnataka	Chandana Rao A.S.	Nanna Bengaluru Concret kadina nagalotadalli	C+
218.	Karnataka	Darshan K.S.	effect of burning Crackers	B+
219.	Karnataka	Deepa S. Hiremath	Shatrukasa - Mithrakas, aayithu samarasa	B+
220.	Karnataka	Dhanalakshmi	Plastic kasa - suttare visha	B
221.	Karnataka	Gagan A.V.	Chicken Gunaya (Hygiene is the high way of the health)	B
222.	Karnataka	Harsha C.S.	Climate smart food system for Puttur town	C+
223.	Karnataka	Havish Ganapathy	Glory of Cardamom	A
224.	Karnataka	Kaveri Kumbara	Hechechechu gidamaragalannu belesiri, parisaravannu samrakshisiri	B
225.	Karnataka	Lakshmi Bailura	Vayu diksuchi hagu vega nirdharisuva upakarana thyayarisuva prayogika adhyayana	B+

	State Name	Name	Project Title	Grade
226.	Karnataka	Madhushree G.	Effect of Climate on growth of Pomegranate	B
227.	Karnataka	Manjunath S.N.	Eco-House, the green building	C+
228.	Karnataka	Meghana M.	Effect of Agriculture Activities on Weather & Climate in Kadaba	B
229.	Karnataka	Moulya Poovaiah	Shade Coffee - A unique traditional method of Carbon sequestration	B+
230.	Karnataka	Naveen M.P.	Useful fuel from harmful plastic	B+
231.	Karnataka	Nisarga N.	Weather & Food save today, servive tomorro	B
232.	Karnataka	Poojitha R.	Loss of water bodies with time	B
233.	Karnataka	Poornima	Organic Paddy for bright future	B
234.	Karnataka	Sana S.K.	Nisarga Manava	B
235.	Karnataka	Shreevidya U.S.	Don't blame the weather, adopt to weather	B
236.	Karnataka	Sreekanth Hegde	Soil, The hidden part of climate change	Absent
237.	Karnataka	Suneth J. Raval	Sashegala chata pruthviya sankata	C+
238.	Karnataka	Sunil Kumar	Kalakalakke kaduva kalegalu	B
239.	Karnataka	Swati Marati	Mitha Indhana Deepa	B+
240.	Karnataka	Vaishnavi Kirale	Comparision of traditional agricultural practices	C+
241.	Karnataka	Varun	Comparitive study of Microclimate in secred grove and semi barren land	B
242.	Kendriya Vidyalaya Sangathan	Abhishek Kumar	Loss of water,bodies with time	B
243.	Kendriya Vidyalaya Sangathan	Adarsh Agnihotri	Animal behaviour as weather indicators	C+
244.	Kendriya Vidyalaya Sangathan	Akhil R Kurup	Study on human character change during different climatic conditions	B
245.	Kendriya Vidyalaya Sangathan	Ambarish Kumar Mishra	Change in climate and its effect on muga silk worm	B
246.	Kendriya Vidyalaya Sangathan	Amor Ronpi	Weather climate and health	Absent
247.	Kendriya Vidyalaya Sangathan	Anamika Sharma	Influence of vegetation cover on microclimate	B
248.	Kendriya Vidyalaya Sangathan	Anjli Rani	Weather and climate around us	C+
249.	Kendriya Vidyalaya Sangathan	Ashutosh Sharma	Climate change in Indore in last 60 years	B
250.	Kendriya Vidyalaya Sangathan	Ayushi Yadav	Energy intensive lifestyle: climate change and impact of climate change on society and culture	C+

	State Name	Name	Project Title	Grade
251.	Kendriya Vidyalaya Sangathan	Babli Adhikary	Impact of weather and climate on people's health in Durgapur	Absent
252.	Kendriya Vidyalaya Sangathan	Chhandasri Mishra	Impact of weather and climate change on tea of Assam	B
253.	Kendriya Vidyalaya Sangathan	Chirag Bhardwaj	Study of weather pattern in AFS, Chakeri, Kanpur	B
254.	Kendriya Vidyalaya Sangathan	D. Akshara	Let us cherish, but not perish	B
255.	Kendriya Vidyalaya Sangathan	Debashish Saha	Thyroid-a major disease in Barmer	C+
256.	Kendriya Vidyalaya Sangathan	Deeptansh	Impact of human activities on climate and weather	C+
257.	Kendriya Vidyalaya Sangathan	H.S.Ajibrindharam	Natural ecosystem and human made ecosystem	B
258.	Kendriya Vidyalaya Sangathan	Ku. Ananya Singh	Effect of biotic and abiotic component of ecosystem	Absent
259.	Kendriya Vidyalaya Sangathan	Ku. Srishti Chakravarty	How human activity affects agriculture	Absent
260.	Kendriya Vidyalaya Sangathan	Madhuparna Paul Chowdhury	Study of pattern of common diseases in general population in relation to change in local weather condition including seasonality	Absent
261.	Kendriya Vidyalaya Sangathan	Mast. Arijit Ghosh	Qualifying the effect of human activity on climate by measuring the extent of acidity of Powai Lake	B
262.	Kendriya Vidyalaya Sangathan	Nikki	Green energy	B
263.	Kendriya Vidyalaya Sangathan	Pallabi Dutta	Analysis of monsoon rainfall of past and present in our locality	B+
264.	Kendriya Vidyalaya Sangathan	Parul Damahe	Monitoring weather conditions between two localities in Raipur city	B+
265.	Kendriya Vidyalaya Sangathan	Pranjal Pandey	Effect on weather and climate due to urbanisation in Devlali in last 10 years	B
266.	Kendriya Vidyalaya Sangathan	Priyanka S	Smart farming	B
267.	Kendriya Vidyalaya Sangathan	R.Ajesh	Reforms in exam system - save eco-system	B
268.	Kendriya Vidyalaya Sangathan	Rajbans Huidrom	How much KV Lamphelpat is contributing to global warming	B+
269.	Kendriya Vidyalaya Sangathan	Sagar B.Dollin	Pollutant free mosquito trap	Absent
270.	Kendriya Vidyalaya Sangathan	Sanjay Krishnan E M	Effect of change in rainfall pattern on human health	B+
271.	Kendriya Vidyalaya Sangathan	Saurav Bhattacharjee	Pollution free vehicle for clean and green future	B
272.	Kendriya Vidyalaya Sangathan	Shikhar Gupta	Agriculture on mountains and valleys	Absent
273.	Kendriya Vidyalaya Sangathan	Shivanshu Pandey	Bioplastic from banana peels	B
274.	Kendriya Vidyalaya Sangathan	Shivendra Pratap	Acid rain protector cum neutralizer	B
275.	Kendriya Vidyalaya Sangathan	Siddharth Shekhar Sahu	Use bio-plastic to stop global climatic change	B+
276.	Kendriya Vidyalaya Sangathan	Sneha Jagadish	Biomonitor the insect diversity in and around my school area in grass land ecosystem	B
277.	Kendriya Vidyalaya Sangathan	Subhasis Panda	Experimentation of general phenomenon weather and climate	C+
278.	Kendriya Vidyalaya Sangathan	Sumit Kumar Singh	Problems that effect weather and climate	C+
279.	Kendriya Vidyalaya Sangathan	Swagat Suman Naik	Weather affects silk worm	B
280.	Kendriya Vidyalaya Sangathan	Tushar Sharma	Understanding environment	Absent
281.	Kendriya Vidyalaya Sangathan	Utsav B. Lakhlani	Plasma gasification of Municipal Solid Waste	C+
282.	Kendriya Vidyalaya Sangathan	Vipul	Eco friendly fridge and water purifier	B
283.	Kerala	Adheena. M. Jose	A study to control the N2O prodn from agricultural fields by using electron doners	B+
284.	Kerala	Amritha Arun	The reason for formation of localised thunder storm clouds in eastern hilly terrains of kerala - astudy	B+
285.	Kerala	Anakha.K.V	A comparitive study on the changes and impacts of microclimate in a rubber plantation area and in a traditional cultivation area of Munderi Panchayath In Kannur	B
286.	Kerala	Anitta Jose	Landslide in Highrange area	B+
287.	Kerala	Arshitha S.M	Influence of Kerala monsoon in different paddy farming at ezhome	B+
288.	Kerala	Devika. C.S	A Unique Natural phenomenan"chakara" (mud bank) –a study on chakara of arthunkal village of alappuzha , causative factors , impact of climate change on its formation	B+

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289.	Kerala	Diya Xavier,	Vemom padam waterbed- A model for the whole Wayanad	B+
290.	Kerala	Jagannath Rakesh	Weather and climate change effect on coffee production in wayanad	B+
291.	Kerala	Libin Sabu	A study on the impact of climatic factors on agricultural crops	B+
292.	Kerala	Malavika Menon	A study on green house gases from in-use automobiles at five major junctions in thiruvananthapuram city.	B+
293.	Kerala	Murali Krishnan. A	Role of pallam's in balanced climate and ecosystem	B+
294.	Kerala	Nandana.J.S	A study of impact of climate changes on the dairy cattles with special reference to summer	B+
295.	Kerala	Sruthi.C	A study about climatic changes and its effect on agricultural fields	Absent
296.	Kerala	Suryagayathri. K.C	Kalangal katha parayumbol	B
297.	Kerala	Thanseela.M.F	A study on the effect of cloud covers on air temperature and relative humidity and its impact on the latex production in Maranalloor Panchayath.	B
298.	Kerala	Theertha N.P	Sequestration of CO2 from domestic plastic waste and its management	B
299.	Lakshadweep	Mohammed Abdul Wajid.T	Change in Climata and Agriculture	B
300.	Lakshadweep	Munshida Banu.A.M	Weather Climate and Health	B
301.	Lakshadweep	Noureen Taj	Weather patter and its impact on fish landing at Kavaratti	B+
302.	Lakshadweep	Rahsa Beegum.A.K	Evaporation from manmade reservoirs and its impact on weather	C+
303.	Madhya Pradesh	Abhinandan	Weather climate and health	C+
304.	Madhya Pradesh	Abhishek Kumar Giri	Effects of summers winter and monsoon on incidence of respiratory diseases	C+
305.	Madhya Pradesh	Akshay Malviya	Effect of humans activities on weather and climate	B
306.	Madhya Pradesh	Anjali Soni	Effect of changing climate conditions and high rainfall on soya-bean production in around Bhopal	B+
307.	Madhya Pradesh	Arun Thakur	Effect of different weather and respiratory diseases in our area	B
308.	Madhya Pradesh	Deepak Jain	Impact of human activities on weather & climate	C+

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309.	Madhya Pradesh	Divya Kumar Garg	A study on the impact of weather on human efficiency	B
310.	Madhya Pradesh	Divyansh Shrivastava	Tribal (Gonds) culture food and health	B
311.	Madhya Pradesh	Harsh Rathore	Pollution from factory and affected on weather	B+
312.	Madhya Pradesh	Nachiket Jhala	Effect of rising temperature on our regional crops and its management	A
313.	Madhya Pradesh	Naman Devpura	Health : A major oilemma	B
314.	Madhya Pradesh	Palak Sharma	Impact of the cement dust on agriculture and temperature	B
315.	Madhya Pradesh	Poonam Dwivedi	Related diseases of different weather in locality and healthy tips	B
316.	Madhya Pradesh	Pragati Maheshwary	House hold carbon foot print calculator and suggestions for its reduction for climate change	B
317.	Madhya Pradesh	Prakrati Patil	Weather climate and health	B
318.	Madhya Pradesh	Raghav Bhutra	Impact of climate on agriculture and animal husbandry	C+
319.	Madhya Pradesh	Ravi Verma	Weather related diseases in locality	B
320.	Madhya Pradesh	Riteesh Sonkar	Plantation on concrete bed built over sewage without soil	B
321.	Madhya Pradesh	Samar Jain	Understanding weather climate and health of Ashok Nagar	B
322.	Madhya Pradesh	Samarth Garg	Santap ek tragedy	Absent
323.	Madhya Pradesh	Samiksha Jain	Weather climate and health	B
324.	Madhya Pradesh	Sanskriti Khare	Benefits of dresses and houses during climate	B+
325.	Madhya Pradesh	Shujat Ali Jafri	Weather climate - society and culture	B
326.	Madhya Pradesh	Siddhanth Dass	Analyse waste generation its disposal in a locality and its impact on weather and climate	C+
327.	Madhya Pradesh	Swati Sharma	Effect of change in weather on health	C+
328.	Madhya Pradesh	Umesh Singh Choudhary	Effect of weather and climate on the crop production	B
329.	Madhya Pradesh	Vidhan Singh Tomar	Study on weather patterns and income loss of workers with their daily wages	B
330.	Madhya Pradesh	Vipul Kumar Shukla	Effect of temperature in crop production	C+
331.	Maharashtra	Adityavikram Biyani	Effect of human activities on environment	B+
332.	Maharashtra	Aisgvarya Kumbhari	Study of effect of weather and climate on Agriculture, Animals & Human Beings	B
333.	Maharashtra	Akash Patil	Pollution controller machine	B+

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334.	Maharashtra	Amruta Kavatkar	Study of carboon footprint due to mode of travel by school children	B+
335.	Maharashtra	Bhushan Patil	Preparation of thread from Banana tree	B
336.	Maharashtra	Kiyedh Samant	Effect of Temperature & Increase in Carbon Dioxide on the growth of plants	B+
337.	Maharashtra	Mayuresh Patil	Effect of vehicular exhaust on weather and climate	B
338.	Maharashtra	Meenakshi Bastapure	To study the effect of different climates of different places on the growth of dicotyledons plant (Moti Bean)	B
339.	Maharashtra	Nichit Omkar	To study the effect of air pollution on the surrounding area of Ranjangaon MIDC	B
340.	Maharashtra	Noor- E- Mohammad Yasin Jamadar	Assessment of ambient air quality of industrial area MIDC Mirjole and effects on climate change	B+
341.	Maharashtra	Pooja Hiremath	Mitigation of methane emission from the poddy fieds in pune	B
342.	Maharashtra	Pooja Khod	Effect on milk production of buffaloes due to change in temperature according to weather and climate	B
343.	Maharashtra	Pratik Hemgude	To suty the effect of weather on bacterial count of Pavana River	B+
344.	Maharashtra	Preeti Rajput	To study at all effect of changing weather on lifestyle of butterflies in Islampur and its solution	B
345.	Maharashtra	Rajesh Tulavi	Effect of weather on young ones of goat	Absent
346.	Maharashtra	Ritika Singh	Prevelence of dengue in our locality is weather related	B+
347.	Maharashtra	Ruchita Harde	Observing the factor of air studing the observations of crop	B
348.	Maharashtra	Rutuja Patil	Effect of Acidification on Aquatic Ecosystem	B+
349.	Maharashtra	Sakshi Gujar	Study of fungi and its effect	B+
350.	Maharashtra	Sandhya Patil	A Study on the effects of various pollutantsthod cause it health	B
351.	Maharashtra	Saranga Patokar	To study the effect of weather on different types of clothes	B
352.	Maharashtra	Shankar Balu Daroda	Study of the effect of weather on rice crop in Kothare Village	B+
353.	Maharashtra	Shridhar Gajbar	To study sustainable crop species from hupari with respect to changing climate	B
354.	Maharashtra	Shruti Jangam	To study various diseases due to change in weather at Islampur in rainy season	B+

	State Name	Name	Project Title	Grade
355.	Maharashtra	Swapnil Mandavkar	To study the effect on farm productivity in a village Nachangaon due to chande in date of sowing seeds	B
356.	Maharashtra	Tejas Mane	Study of the effect soil dust produced by road vehicles on pigeon pea (tur) crop at Khopegaon	B+
357.	Maharashtra	Vaibhav Paranjape	Impact of Varibale weather on milk production	B+
358.	Maharashtra	Ved More	To Study the effect of glass usage in architectural buildings in cities	A
359.	Maharashtra	Vinesh Padvi	Food habits of tribal people in different seasons	Absent
360.	Maharashtra	Vishal Kamble	The effect of glass façade building on surrounding weather and climate	B+
361.	Manipur	Akoijam Centuria Devi	Comparative study of CO2 emission from the categories of APL and BPL in Bamon Kampu Mayai Leikai and their carbon footprins	B
362.	Manipur	Leiyarinthing Woleng	Traditional water harvesting at Sashaitang and its management in stress period	B
363.	Manipur	Mayanglambam Rojina Devi	To study the calculation of Carbon Sequestration from our school campus	B
364.	Manipur	Meitankeishangbam Surjalata Devi	Construction of home made hair hygrometer and understanding relative humidity	B
365.	Manipur	Meneka Moirangthem	Use of bicycles in place of motorised vehicles and reduction in carbon-footprint	B
366.	Manipur	Ningthoujam Yaiphabi Devi	An assessment on the emission of CO2 by electric appliances like bulbs, refrigerators, fans and T.V. at 20 different households located in Ningthoukhong	B
367.	Manipur	S. Harry Vaiphei	Study of the reason for scarcity of water	B
368.	Manipur	Sandeep Nongmaithem	To Estimate the amount of carbon Stock by the Green Grasses (St. Josephs High School Campus)	B
369.	Manipur	SM Ruhana	A study on the impact of transportation on environment	B+
370.	Manipur	Yirmi Kashung	Use of natural light in place of artificial light	Absent
371.	Meghalaya	Aloma D. Areng	Impact of climate changes on the performance of Heavia with special reference to Ganolgre Farm of Rubber Board of India	B

	State Name	Name	Project Title	Grade
372.	Meghalaya	Banderson Wanniang	Documentation of cash crops and their production in Ngunraw village	C+
373.	Meghalaya	Joshlin Shylla	A study of the effect on temperature due to the location of a number of cement factories in East Jaintia Hills District	B
374.	Meghalaya	Marushia Phawa	To monitor the effects of climatic factors- humidity, temperature on growth of grassland vegetation within the school premises	B+
375.	Meghalaya	Marveline Thyrniang	To study the temperature variation due to human activities	B
376.	Meghalaya	Sengbiana D. Sangma	Climate change- A threat to orange cultivators	B
377.	Meghalaya	Shaunee Dey	To convert the prestent school campus into a totally eco friendly zone - an effort to mitigate and adapt the present climate changes	B
378.	Meghalaya	Tengkambe R. Marak	Invasion of armyworms in the paddy field of Rongmalgre village	Absent
379.	Mizoram	Angela Vanlalhmangaihi	Effect of weather and climate on human respiratory system	Absent
380.	Mizoram	C.Lalremruati	Understanding weather around you	B
381.	Mizoram	F.Lalmuansangi	Study of the pattern of common diseases in the general population	C+
382.	Mizoram	H.Lalrinchhani	Evaporation from man made reservoirs and its impact on local weather of Champhai	B
383.	Mizoram	R.Malsawmtluangi	To study the relationship between climate and selected species of winter crops	B
384.	Mizoram	Remsangpuii	The influence of climate change on the occurrence of Malaria in Aizawl	C+
385.	Mizoram	Rinhlupuii	Influence of vegetation cover microclohate	C+
386.	Mizoram	Rita Ngurremsangpuii	The influence of sunlight on the germination and growth of bean plant	C+
387.	Nagaland	Batsonu Kweho	Traditional Agriculture in Nagaland- Jhum Cultivation	B
388.	Nagaland	Ninoka K. Anche	Impact of weather & climate on the health & production of Pig keeping in Laghulato Colony, Zunheboto	B
389.	Nagaland	Obangnenla Aier	Prevalence of Dengue Fever in Medziphema. Is it weather Related?	B

	State Name	Name	Project Title	Grade
390.	Nagaland	Petekhrielie Viluo	Effect of modern technologies on global warming with refernce to Merima village of Nagalang	B
391.	Nagaland	Putusenla Jamir	CO2 Affecting Weather and Climate	B
392.	Nagaland	Replica H. Awomi	Assessing the loss of Forest in Hekiye Village, Zunheboto	B
393.	Nagaland	Rhea Thapa	Effect of different souring dates of the growth, flowering and yield of paddy	B
394.	Nagaland	Sedevinü Sale	Survey report in assessing resilient components in the seasonal food behaviour and practices experienced in Medziphema Village.	C+
395.	Navodaya Vidyalaya Samiti	.Komal Borade	Weather Climate and Health	B
396.	Navodaya Vidyalaya Samiti	Aarti	Effect of Weather & Climate on Livestock	C+
397.	Navodaya Vidyalaya Samiti	Abhishek Vishwakarma	Study of weeds in nearby villages with special reference to parthenium. Its control by utilization and Bio Control method and effect of climate on its growth	C+
398.	Navodaya Vidyalaya Samiti	Akshay Gupta	Climate changes in Jashpur flourishes tea cultivation	B
399.	Navodaya Vidyalaya Samiti	Aleena Paul	Pollution from kochi oil refinery and its impact on weather and human habitation	B
400.	Navodaya Vidyalaya Samiti	Amlendu Mohanty	Plastic waste pollution and its management	B
401.	Navodaya Vidyalaya Samiti	Aryan	Effect of traffic pollution on epiphytic lichens	B+
402.	Navodaya Vidyalaya Samiti	Atal Singh	Impect of Weathr on Health in our locality	B
403.	Navodaya Vidyalaya Samiti	Barsha Rani Das	Pests - enemy of tea planters	B
404.	Navodaya Vidyalaya Samiti	Dikhchya Pokhrel	Bioremediation of effluents retrieved from industries and stored in pits.	B
405.	Navodaya Vidyalaya Samiti	Harikesh Shukla	Change in agriculture pattern due to change in weather and climate condition	B
406.	Navodaya Vidyalaya Samiti	Khistiz Prasad Arya	A Micro hydal project	B
407.	Navodaya Vidyalaya Samiti	Ku.Swapnali Patil	Impact of Changing weather and climate on Sugar Cane	B
408.	Navodaya Vidyalaya Samiti	Lovepreet kaur	Analysis of school attendance in relation to weather and correlating to socio economic background of absentees	B

	State Name	Name	Project Title	Grade
409.	Navodaya Vidyalaya Samiti	M.N.Ganashree	Late monsoon effect on cropping system	B
410.	Navodaya Vidyalaya Samiti	Md.Miraj Ali	Study of various skin desease in last 3 years in our locality related to change in weather	B+
411.	Navodaya Vidyalaya Samiti	Nathanel Warlarpih	Source of Water during different seasons in Ummlong Village	C+
412.	Navodaya Vidyalaya Samiti	Nitu Das	Research on Banana Plantation related with height weather and climate	B
413.	Navodaya Vidyalaya Samiti	Pradumna Mishra	In alternate view of environment pollution micro wave and E - waste	B
414.	Navodaya Vidyalaya Samiti	Priyanka	Declining Soil Health in Sirsa	B
415.	Navodaya Vidyalaya Samiti	Rahul Krishna.K	A Study On Polution Of Tirur Ponnani River	B+
416.	Navodaya Vidyalaya Samiti	Sadanand Ugale	Diseases in the Society due to climate change	B
417.	Navodaya Vidyalaya Samiti	Saswat Kumar Dash	Effect of climate on activities of snail and their control measures	B+
418.	Navodaya Vidyalaya Samiti	Satyanarayan Rath	A case study of Endemic Fluorosis due to geogenic problems & its remedies : A case Study in Village Nabarangpur	B
419.	Navodaya Vidyalaya Samiti	Saurav kumar	Effect of soil pollution due to industries in begusarai	B
420.	Navodaya Vidyalaya Samiti	Shweta Kumari	Seasonal variation in number of insects before and after deepavali	B
421.	Navodaya Vidyalaya Samiti	Sidhant	Study of waste disposal and its effect on weather and climate	C+
422.	Navodaya Vidyalaya Samiti	Somnath Dhonde	Effects of Late Mansoon on Cropping Pattern in your Locality	B
423.	Navodaya Vidyalaya Samiti	Swapna R Deshpande	Relationship between the famers and weather climate changes in haveri district	B
424.	Navodaya Vidyalaya Samiti	Tannu	Effect of temp. on Local Area	C+
425.	Navodaya Vidyalaya Samiti	Vandana Sharma	Effect of water quality change on fish production	B
426.	Navodaya Vidyalaya Samiti	Vikash Kumar	Effect of seasonality on the occurrence of common human diseases	B
427.	Odisha	Abhishek Mahapatra	Isolation of PPR from the Rhizoshpere of Phragmites karka growing in the saline Chilika lake and its application on salinity affected cultivated paddy lands	B
428.	Odisha	Annapurna Rout	Climate of Talcher is a boon for wondrous water hyacinth	B+

	State Name	Name	Project Title	Grade
429.	Odisha	Archee Aishwarya Mohanty	Green house effect on weather & climate change	B
430.	Odisha	Arpita Jena	Natural effects on Chilika Plants,birds and fishes on climate change	B
431.	Odisha	Aryashresth Pattnayak	Innovative weather forecasting machine	C+
432.	Odisha	Asish Kumar Mishra	Gambusia fish rearing for eradication of Dengue: a case study of Balasore District	B+
433.	Odisha	Ayush Sourav Jagaty	Impacts of Nalco's red mud & fly ash on enverourment & their utilization for economic & sustainable development	B
434.	Odisha	Babun Bag	A comparative analysis of effects on agriculture by Phailin& Hudhud in Dunguripali area	B
435.	Odisha	Devidutta Kabisatpathy	Planning for energy efficient all weather and climate conducive ideal house in Dhenkanal area	C+
436.	Odisha	Hitesh Rout	Eco-friendly approaches for best management in rice	A
437.	Odisha	Iturani Sahu	Cultivation and yield in Rabi crop per acre in the village Burda- A case study	C+
438.	Odisha	Jaya Krushna Das	Improvement Of Mushroom Production By New Technology: A Case Study In Village Raikama	B+
439.	Odisha	Laba Kumar Roy	Adverse effect of agrochemicals in the weather & climate of Umerkote	B
440.	Odisha	Om Sekh Panda	Food habit of people of Kalahandi districtin different festival due to climatic condition	C+
441.	Odisha	Omkar Sharma	Co2 reduction by setting up of eco friendly industry	B
442.	Odisha	Pallavi Mohini	Effect of humidity & temperature on skin- A case study	B+
443.	Odisha	Parasmita Jena	A step for increase the production of crab queen on Chilika	A
444.	Odisha	Rashmita Himirika	Solution to havoc of climate change on staple food of coastal Odisha	B
445.	Odisha	Rupak Kumar Bhosagar	Diminishing Groundnut production due to climate change in village Lebidi	B
446.	Odisha	Sachin Kumar Sahu	Change of climatic condition Effect of monkeys life style	B
447.	Odisha	Sampurna Panigrahi	Innovative research on use of rice husk to get energy for home and industries	B

	State Name	Name	Project Title	Grade
448.	Odisha	Sreedhar Panigrahi	Spreading of different mosquitoes and its habitat in our are & causes of malaria and prevention	C+
449.	Odisha	Sridevi Datta Sahu	On farming rain water harvesting for enhancing crop production from the rain fed upland under irregular rainfall due to climate change	C+
450.	Odisha	Sunanda Sahoo	Spread of Malaria due to climate change in Manpur area of Danagadi block- A case study	C+
451.	Odisha	Sushree Sangita Das	Decrease of different agricultural crops due to change in climate	B
452.	Odisha	V.Varnika Priyadarshini	A study of Biodiversity in industrial area of Sunarimunda due to climate	B+
453.	Puducherry	Ajay Krishna. R	Formation of heat islands at Vazhudhavursalai and local weather changes due to centralized incineration of municipal waste at Kurumampet Puducherry	B+
454.	Puducherry	Amritha Monica. V	A study on the effect of weather in plant growth in barren soil using different soil amendments	A
455.	Puducherry	Aparna Madhusoodanan	Impact of season on butterfly abundance and species diversity in five localities	A
456.	Puducherry	Aravind.P	Influence of weather factors on the incidence of insect pests and their natural enemies in Bhendi (Abelmoschus esculentus L.)	B+
457.	Puducherry	Rakesh.C	Impact of temperature, rainfall, salinity, ph and dissolved oxygen on fishery resources of Puducherry mangroves	B
458.	Puducherry	Subitshaa. S	Study of waste disposal/landfill its effect on weather and climate and remedial measure - Preparation of light weight concrete from non bio degradable waste (plastic)	B+
459.	Punjab	Akashdeep Singh	Depleting Water Level of Punjab	C+
460.	Punjab	Amreen Kohli	Imapact of Festivals onWeather and Climate	B+
461.	Punjab	Anmol Salhvi	Mausam Ki Gaadi Sab Par Bhaari	B+
462.	Punjab	Anshu	Effect of Weather and Climate on Biodiversity	C+
463.	Punjab	Archita Kaushal	The Answer to Climate Change is - "CHANGE"	B+

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464.	Punjab	Baljit Singh	Influence of Organic matter on different soil properties	B+
465.	Punjab	Deepanshi	Conversion of Paper-Mill Sludge into Soil Conditioner-A Step to combat Climate Change	B
466.	Punjab	Jagdeep Singh	A Study of temperature variation and change in cultural habits	B+
467.	Punjab	Mohit Sharma	Study of Indigenous Weather Forecasting System based on Phenology of Birds and behaviour Animals	B
468.	Punjab	Nandini Sharma	Climatic March - A Therapy for the ignored Sufferers	B+
469.	Punjab	Prabhjot Kaur	Dangerous Months of the Year	B
470.	Punjab	Ranjot Kaur	Impact of Agricultural Practices on Weather and Climate	B+
471.	Punjab	Sahil Sharma	Reduction in Carbon Footprint by Bio-waste Management	B+
472.	Punjab	Sana Vohra	Climate and Agriculture Intervened together	B+
473.	Punjab	Sanjay Virmani	Imapact of Weather on Economy	B
474.	Punjab	Simranpreet Kaur	Impact of Human Activities on Weather and Climate	B
475.	Rajasthan	Amrit Pundir	weather climate culture and society	C+
476.	Rajasthan	Ayushi Bhatia	afforestation a way to develop jaisalmer	B+
477.	Rajasthan	Dhvani Tawari	saw dust and solar panels way to help residents of jaisalmer	B
478.	Rajasthan	Dimple Rarh	air cleaning	Absent
479.	Rajasthan	Jigyasa Dashora	analysis of relation between climate and malaria	Absent
480.	Rajasthan	Khushi Sarda	jaisalmer as an agriculture hub	B
481.	Rajasthan	Khushi Tongia	the micro climate requirement of sarus crane in relation to its distribution and nesting activity in	Absent
482.	Rajasthan	Manisha Kumari	impact of waether and climate on agriculture	B+
483.	Rajasthan	Namita Lunkad	study of patttern of common diseases in relation to weather conditions	B+
484.	Rajasthan	Omprakash	meapping of weather related diseases with special refference to sirola bera area	B+
485.	Rajasthan	Pooja Pandey	effect of weather and climate on soil and agriculture productivity	B
486.	Rajasthan	Pulkit Verma	effect of temprature and control of fruit rot disease in pomergranate	A

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487.	Rajasthan	Saba Khan	study on termal comfort of traditional housing	C+
488.	Rajasthan	Shivam Gaur	weather climate and human health in kota rajasthan	B
489.	Rajasthan	Shreya Kacholia	the changing climate	A
490.	Rajasthan	Sohum Garg	impact of waether and climate on birds in kota	B
491.	Rajasthan	Somil Jain	pollution its effect on weather and agriculture in chittorgarh	B
492.	Rajasthan	Tanishka Joshi	study the effect of climate on human health in chittorgarh region with special reference to disease	B
493.	Rajasthan	Tarun Mudgal	dangue is this related with weather	B+
494.	Rajasthan	Vikas Sigar	reduce the effect of green house gases	B
495.	Rajasthan	Yukta Singh	weather and micro climatic change enhancing spread of invasive alien plants in city and surrounding	B+
496.	Tamilnadu	A.Iyappan	The changes in ground water level and soil owing due to climate changes and Eucalyptus tree	B
497.	Tamilnadu	A.Teena catheerine	Reduction of UHI effect by domestic appliances	C+
498.	Tamilnadu	A.Yakshitha	A study on effet of rainfallon the Eco systemat Vedathankal birds sanctury	B
499.	Tamilnadu	B.Aravinthan	The Change in agrcultural system due to no rainfall	B
500.	Tamilnadu	B.Gokulprya	Cultivation of panuivaragu co pv 5 whch ncrease our natonal income for our weather and climate	B+
501.	Tamilnadu	G.Damini Kour	Studies on the Physio chemical parameters of the selected pond water	B
502.	Tamilnadu	G.J.Heena	Climate and cooling equipments in Thirunagar Madurai District	C+
503.	Tamilnadu	G.Mariyappan	The changes in our local cultivaton	B
504.	Tamilnadu	I.Sorna	Wave pattern and fishing	C+
505.	Tamilnadu	J.Kishore	Impact of coir industries on weather and health	B+
506.	Tamilnadu	K.Ajith	Study of different weeds with refrence to changing weather on occurrence, growth, flowering and reproduction	C+
507.	Tamilnadu	M. Revathi	Impact of fertilizer and weather in the agriculture production	B

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508.	Tamilnadu	M.Anusuyaa	Foraging activities of honey bees in Karanthaimalai forest	B+
509.	Tamilnadu	M.Azhagusuja	The effect of using sulphur in cocunut drying sites	B+
510.	Tamilnadu	M.Bhuvan	House Sparrows as weather indicators collection of tradition experience & scientific validation	B
511.	Tamilnadu	M.Jarina Parveen	Role of climate change in seasonal infection and disease	C+
512.	Tamilnadu	Mohammed shaheem	Influences of climate on human animal conflictin masingudi	C+
513.	Tamilnadu	N.Jeevithkumar	Climate changes due to hills becoming quarries	B
514.	Tamilnadu	N.Meena	Weather climate and agriculture	B
515.	Tamilnadu	N.Sathana	Study of coral in terms of bleech	B
516.	Tamilnadu	R.Anantha Valli	Seasonal Food Practices and its avilability in terms of weather in our locality	B
517.	Tamilnadu	R.Chithra	Low rainfall details survey in Karur area	B
518.	Tamilnadu	R.Suresh	Climate change and it's impact on agrculture	C
519.	Tamilnadu	S.Sathyasudhan	Seasonal variations on storage of agriculture production	B
520.	Tamilnadu	Sakthikuhan	Climatre changes and deplietion of water resources in and around Villupuram town	B+
521.	Tamilnadu	Saravika Raghu	Prediction and understanding of weather and climate by our ancestors CCM	B+
522.	Tamilnadu	T. Dhaarani	Impact of infectious disease during rainy season	Absent
523.	Tamilnadu	T.Thrisha	Climatic changes and fishering women's attitude	B
524.	Tamilnadu	V.Pushparaj	Cropping pattern and climate change	B
525.	Tamilnadu	Varad.C.Haridas	Weather pattern over a to local area with Network intergrated Embedded Technology	B
526.	Telangana	B. Suma	Impact of stone crusher on Environment	B
527.	Telangana	C.S.Akshaya	Climate Resilient Technologies in Agriculture	B
528.	Telangana	Ch. Venkata Sai	Eco Friendly Non Pesticides Management Methods	C+
529.	Telangana	D. P. Chowdhary	Know your carbon foot-print	B+
530.	Telangana	E. Sandhya Rani	Weather, Climate & Behaviour of Animals, Birds and Insects	C+

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531.	Telangana	G. Sindhuja	Agri and our life	B
532.	Telangana	G.Anitha	Effect of Climate on Livestock Productivity and Health	B+
533.	Telangana	K. Sowmithri Saraswathi Raj	Degradation of Plastics by Fungi	B
534.	Telangana	M. Niharika	Organic Farming	B+
535.	Telangana	M.Sridhar	Observations and solutions regarding Climate change in and around our village	B
536.	Telangana	S. Vaishnavi	Impacts of Human Activities on weather and climate	B
537.	Telangana	Shaik Muzammil Pasha	Electromagentic Radiation Shield	B+
538.	Telangana	T. Yamini	We All Save The Eco-system	A
539.	Tripura	Aparajita Banerjee	An experi. Approach to study the effect of weather on normal physioloical activities of plant.	B+
540.	Tripura	Bidyut Sharma	A comperative studies on the relationship between evaporation and transpiration.	B+
541.	Tripura	Dhrubojyoti Dey	Studies on the impact of weather conditions on the production of milk and food intake of the cows.	C+
542.	Tripura	Dipak Das	Experimental studies of the weather parameters in different localities of air pollution on human health.	B+
543.	Tripura	Maxsina Debbarma	Studies on Evaporative and evapo-transpirative loss of water in the aquatic ecosystem.	B
544.	Tripura	Moumita paul	Comparative studies on the evaporative and evapo-transpirative loss of water from bare soil and grass covered soil.	A
545.	Tripura	Nilkantha Bhattacharjee	Relationship between clothing and weather	B
546.	Tripura	Prasenjit Das	Systematic studies of Tribal food habit in Moonsoon and its adjustment to that season.	B
547.	Tripura	Samar Das	Bamboo leaf as weather indicator	B
548.	Tripura	Tanmay Sarkar	Effect of rainfall on paddy cultivation	B+
549.	Uttar Pradesh	Aarushi Shukla	Effect of Irregular Weather & Climate on Agricultural field of Saripur Village	B+
550.	Uttar Pradesh	Abhishek Mishra	To reduce CO2 emission in atmosphere	B+
551.	Uttar Pradesh	Abhishek Srivastava	To extract of Carbon from smoke by Carbon isolation device	B
552.	Uttar Pradesh	Aditya Kumar Singh	Precipitation's impact on black gram in Sainyar	B

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553.	Uttar Pradesh	Akhilesh Dwivedi	Effect of human life and agriculture due sea cyclon (Hud-Hud)	B
554.	Uttar Pradesh	Alfiya Bano	Awareness water conservation in Ken area	B
555.	Uttar Pradesh	Amulya Ratan Tiwari	Getting to know Encephslities	B+
556.	Uttar Pradesh	Animesh Rastogi	Interdependency of climate and agriculture and climate prediction	B
557.	Uttar Pradesh	Anshika Chawla	Ecochar in Agriculture a Future Mitigator of GHGS	B
558.	Uttar Pradesh	Bhavyajeet Singh	Biomedical waste and its effect on weather and climate	B
559.	Uttar Pradesh	Deeksha Dubey	Effect of unbalanced amount of inorganic substances of water on human health	C+
560.	Uttar Pradesh	Deepali Gupta	Study on Weather related eye problem and their care with herbal medicine	B
561.	Uttar Pradesh	Divyanshu Gupta	Effect of Temperature change on milk production	B
562.	Uttar Pradesh	Eram Fatma	Make a rain gause, measuring of rain & studding the effect of rain	C+
563.	Uttar Pradesh	Hardik Bhardwaj	A step toward nature loving agriculture	B
564.	Uttar Pradesh	Hemang Mehta	Effect of fuel wood consumption on weather and climate in reference to Faizabad	B+
565.	Uttar Pradesh	Himanshu Gupta-1	Studies of micro-organisms and pond water treatment by traditional method in local Atarra	B
566.	Uttar Pradesh	Ishan Garg	Solar Sterling engine	B+
567.	Uttar Pradesh	Kushagra Anand	A study on the prediction of weather by common indicators	B
568.	Uttar Pradesh	Manvi Jain	Escaping weather related diseases	Absent
569.	Uttar Pradesh	Mrinal Kumar Agrawal	A scenario of diseases caused by change in weather	A
570.	Uttar Pradesh	Nameera Khan	Emission of GHGs from Modern Agriculture practices in Bijnor	A
571.	Uttar Pradesh	Nancy Shukla	Effect of rainfall on the cultivation of paddy	B
572.	Uttar Pradesh	Neelu Kushwah	Impact of weather and climate on agriculture in Divalpur village	B
573.	Uttar Pradesh	Neha Kushwaha	Making of barometer to know air pressure around us	B
574.	Uttar Pradesh	Nirupam Solanki	Climate changes & agriculture development	B
575.	Uttar Pradesh	Parul Singh	Effect of plant on micro-climate	Absent

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576.	Uttar Pradesh	Prashant Shakya	Greenhouse gases, humans and climatic transition	B
577.	Uttar Pradesh	Raj Pal Singh	Effect of weather and climate on the house sparrow of Agra's Shshganj Area	B
578.	Uttar Pradesh	Sakshi Singh	Sublimation of Polythene for road construction	B
579.	Uttar Pradesh	Samarjeet Singh	Effect of sunlight temperature & humidity on health	B
580.	Uttar Pradesh	Sanskar Agarwal	Prediction of weather through phenology of Flora and Fauna	B+
581.	Uttar Pradesh	Satvik Singh	Impact of acid rain on seed germination	B+
582.	Uttar Pradesh	Satyam Pathak	Human activities effecting weather & climate	C+
583.	Uttar Pradesh	Saumya Srivastava 2	Production and management of waste in Atarra	C+
584.	Uttar Pradesh	Shail P.S. Chandel	Effect of weather on soil fauna	C+
585.	Uttar Pradesh	Shivam Goswami	To study the effect of weather and climate changes in human health in New Vishnupuri and Begumbagh Area	Absent
586.	Uttar Pradesh	Shrusty Singh	Effect of weather and climate on Malaria	C+
587.	Uttar Pradesh	Suchita Pandey	Uses of natural light and save electricity to reduce emission of carbon	A
588.	Uttar Pradesh	Ummul Khan	Effect of temperature humidity and rainfall on sugar cane production in June, July, August	B
589.	Uttar Pradesh	Utkarsh Upadhyay	Post harvesting loss of sugarcane grow due to weather deterioration	Absent
590.	Uttar Pradesh	Vaishali Kushwaha	Temperature effect in residential and non residential aria	C+
591.	Uttarakhand	Abhishek Sanwal	Gram That (Lamgarha) me mausam evam jalvayu parivartan se krishi utpadan par prabhav	B
592.	Uttarakhand	Akash Joshi	Varsha jal ekatra kar sinchaayi karna	C+
593.	Uttarakhand	Chandan Singh Negi	Understanding of weather and climate in Betalghat	C+
594.	Uttarakhand	Gaurav Joshi	Gram paul me vigat 30 vsrsho se chana Jhangora kauni utpadan ka adhyayn	B
595.	Uttarakhand	Km. Anjali Negi	Mausam evam jalvayu ke anusar krishi evam fasal chakra me parivartan	B
596.	Uttarakhand	Km. Diksha Rawat	Coping with disaster and Emergencies	B+
597.	Uttarakhand	Km. Krishna Negi	Dharkot Khetra Me Dhwani Pradushan	Absent
598.	Uttarakhand	Km. Namrata Pant	Pithoragarh khetra me mausam va jalvayu ka krishi par prabhav	B+

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599.	Uttarakhand	Km. Prerna Rawat `	Indigenous method of Weather forecasting in area OF Vedikhal	B
600.	Uttarakhand	Km. Sadhna Hemdan	Study of local food and types in our region	B+
601.	Uttarakhand	Km. Sonali Kandwal	Impact of Human activities in KalalGhati area	B
602.	Uttarakhand	Km. Vaishnavi Pant	Study of climate and ecosystem in Chhoi	B
603.	Uttarakhand	Mohd. Shabab	Impact of water change in Microflora on Soil	B+
604.	Uttarakhand	Santosh Singh Baghri	Mandalsera Gaon Me Vanagni Tatha Vayu Pradushan Ke Karan Va Unke Samadhan	B
605.	Uttarakhand	Surbhir Bhairwan	Basukedar Parikhetra Me Jaswasth Par Jalvayu	B+
606.	Uttarakhand	Tanay Dalakoti	Climate weather and diesease	B
607.	West Bengal	Akash Basu	Impact of R.H & D.I upon students attention in academic transaction in Aranghata U.M.I (HS)	Absent
608.	West Bengal	Aritra Roy	Effect of temperature and humidity on sericulture in Murshidabad district	B+
609.	West Bengal	Arpita Ain	Control of drought at Maheshpur by recharging ground water	B+
610.	West Bengal	Debraj Bhowmik	A brief study on recent problems in cultivation of paddy in Our locality due to frequent weather change	B+
611.	West Bengal	Gayatri Mahato	Effect of change in weather elements due to pollution in Shyambazar locality	B+
612.	West Bengal	Jharna Kumar	Prediction of local weather through observation of the behavior of some selected insects and arthropods near Danardihi forest, Bankura	B+
613.	West Bengal	Karishma Sultana	Annual analysis of local crop cycle	B+
614.	West Bengal	Lilufa Khatun	Probels regarding low sunshine and high humidity due to urbanization of Kalash village	B+
615.	West Bengal	Mayukh Sadhu	Effect of automobile pollution on atmosphere	B+
616.	West Bengal	Md. Ashique Ikbal	Weather climate and their influence on agriculture	B
617.	West Bengal	Meghna Panja	Adverse impact of unpranned muttistoreyed construction of school building on weather in the school	A
618.	West Bengal	Moniya Mondal	Krishir anturghar	B+
619.	West Bengal	Neha Das	Increasing global temperature can be reduced through afforestation	A

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620.	West Bengal	Pankaj Debnath	Role of bushes	B+
621.	West Bengal	Pinaki Mondal	Effect of simulated acid rain on seed germination and growth of rice plant	B
622.	West Bengal	Rajorshi Chakraborty	Local weather change due to fireworks burning on various social occasion	B+
623.	West Bengal	Ranjita Mondal	Adverse impact of quick weather change on potato, an economic crop of South Bengal.	B
624.	West Bengal	Rima Mondal	Effect of weather fluctuation on aquatic plants of a pond eco-system	B+
625.	West Bengal	Ripon Roy	Making of innovative small simple instrument to measure velocity and direction of air	B+
626.	West Bengal	Romika Rai	Fading aroma of Darjeeling with change in Weather and Climate : Tea	C+
627.	West Bengal	Samadrita Mondal	Impact of aquatic plant on humidity: an experiment with help of the hydrophyte Elchornia and Salunia	B+
628.	West Bengal	Sanju Das	Mini weather station	B+
629.	West Bengal	Sourav Maiti	To ascertain effect of high-rise buildings in urban (Tamluk) area on availability of sunray and air	B+
630.	West Bengal	Sreya Mondal	Measuring humidity of air by condensation method with the help of chilled water	A
631.	West Bengal	Srijarko Roy	Green house effects crop production affects	A
632.	West Bengal	Subrata Samanta	Simple hair hygrometer	B+
633.	West Bengal	Subrita Bhandary	Effect of weather elements on cultivation of medicinal plant	A
634.	West Bengal	Supriti Mondal	Seasonal prevalence of mosquito borne diseases in Chongarbon and Adjoining areas and a herbal solution thereto	B+
635.	West Bengal	Tanay Das	Evaluation of germination time and rate of rice seed in various soil temperature	B
636.	West Bengal	Tanusree Rakshit	Cultivation of shola at fellow land in rainy season	B+