

75  
आज़ादी का  
अमृत महोत्सव



सत्यमेव जयते



**Weather &  
Climate  
Posters**

भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT  
पृथ्वी विज्ञान मंत्रालय, भारत सरकार  
Ministry of Earth Sciences, Govt. of India



# WEATHER & CLIMATE POSTERS

Selected through open Poster making competition  
held during 23<sup>rd</sup> October to 23<sup>rd</sup> November, 2021

**INDIA METEOROLOGICAL DEPARTMENT**

**(MINISTRY OF EARTH SCIENCES)**

**(GOVT. OF INDIA)**

**MAUSAM BHAWAN, LODI ROAD, NEW DELHI – 110 003, INDIA**

Website : <https://mausam.imd.gov.in/>

## Open Poster Making Competition



India Meteorological Department; established in 1875, is the National Meteorological Service of the country and the principal Government agency in all matters relating to meteorology and allied subjects. The Department is building a weather-ready and climate Smart nation, managing all aspects of weather and climate monitoring, forecasting & warning and continuously rendering one of the most fundamental and widely used services to the nation through many diversified activities.

To commemorate 75 Years of India's Independence and as a part of the 'Azadi Ka Amrit Mahotsav', the India Meteorological Department conducted a month long Online Open Poster Making Competition during 23<sup>rd</sup> October – 23<sup>rd</sup> November, 2021 through MyGov Portal with an aim to raise awareness about various aspects of Weather & Climate Sciences and to explore the creative instinct of the masses.

In total 535 entries were received through the portal. After first level scrutiny 314 entries were found eligible. After careful evaluation, about 270 entries have been shortlisted for inclusion in this e-booklet.

## FOREWORD

It gives me immense pleasure to bring out the booklet on 'Weather & Climate Posters' which provides a reflection of the Open Poster Making competition organized by India Meteorological Department on the MyGov Portal to celebrate and commemorate 75 years of Independence.

Azadi Ka Amrit Mahotsav provided a unique opportunity to connect with the citizens of the country and promote the Weather & Climate Sciences among the people. The Poster Making event not only served as a platform for revealing the creative potential of the masses, it also helped in nurturing the hidden talent of the children and youth of the country. Entries were received from almost all the states of the country without any regional barriers. I'm overwhelmed to mention that school children participated very enthusiastically in this event as is evident from the fact that more than half of the total entries received were from school children only. In total 535 entries were received in this competition and about 270 selected posters have been included in this booklet.

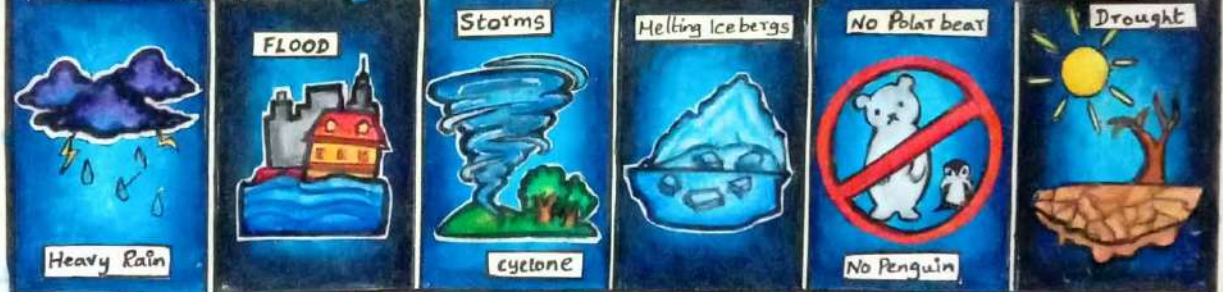
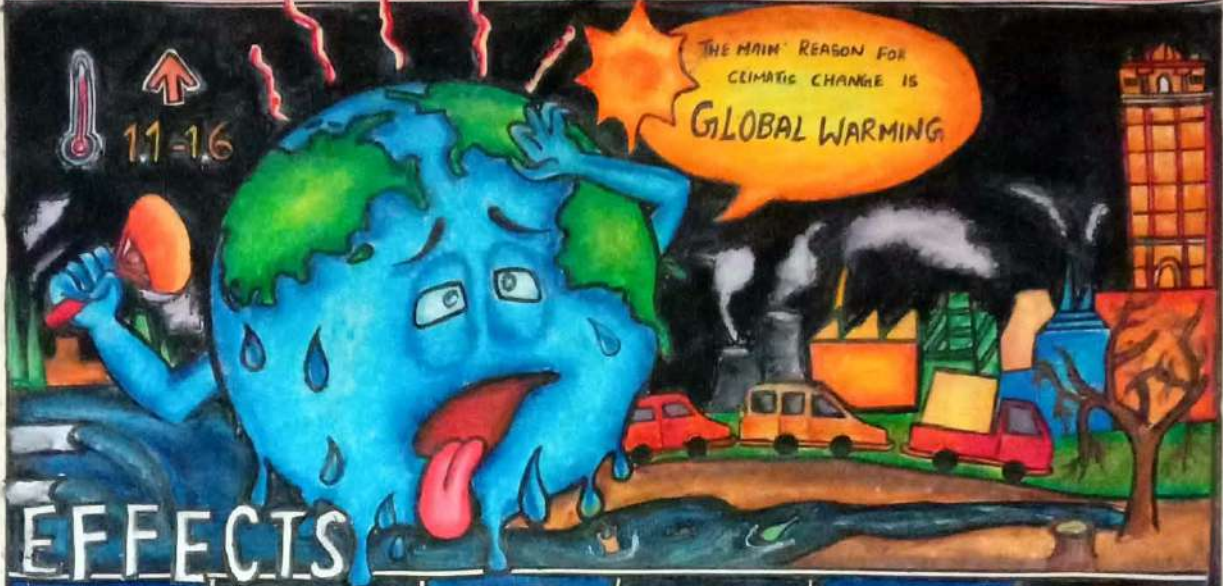
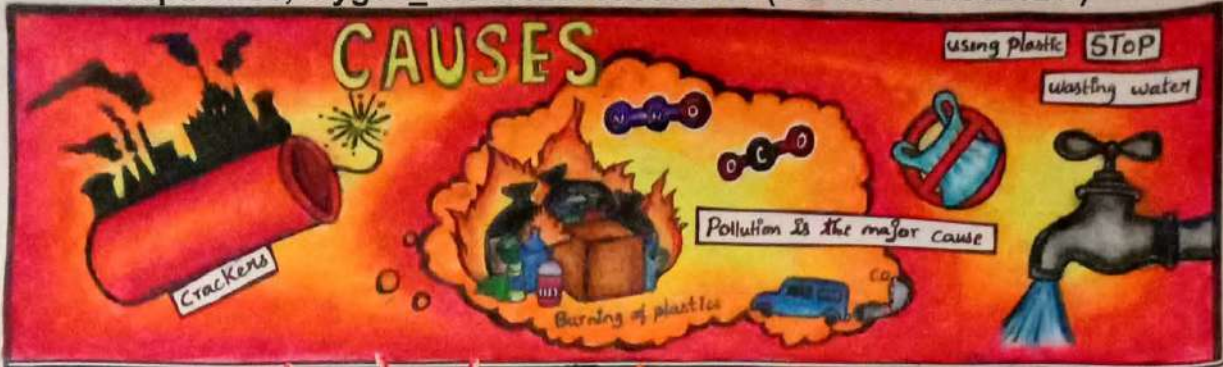
I am thankful to all the participants for making this event a grand success and wish them all the best in the future. I am also thankful to all the members of the IMD family for their efforts in organizing this event. IMD has come a long way in enhancing the Weather & Climate services and such events will certainly help in expanding the outreach of these services.

**Dr. M. Mohapatra**  
**Director General of Meteorology**



Shreya mishra, mygov\_163647077251532241 (CID No. 124867191)

Rupashree, mygov\_163768257396588411 (CID No. 124962621)



Om Singh, CID No. 124824931mygov\_163569499695337051



Aspects Of Weather And Climate Sciences

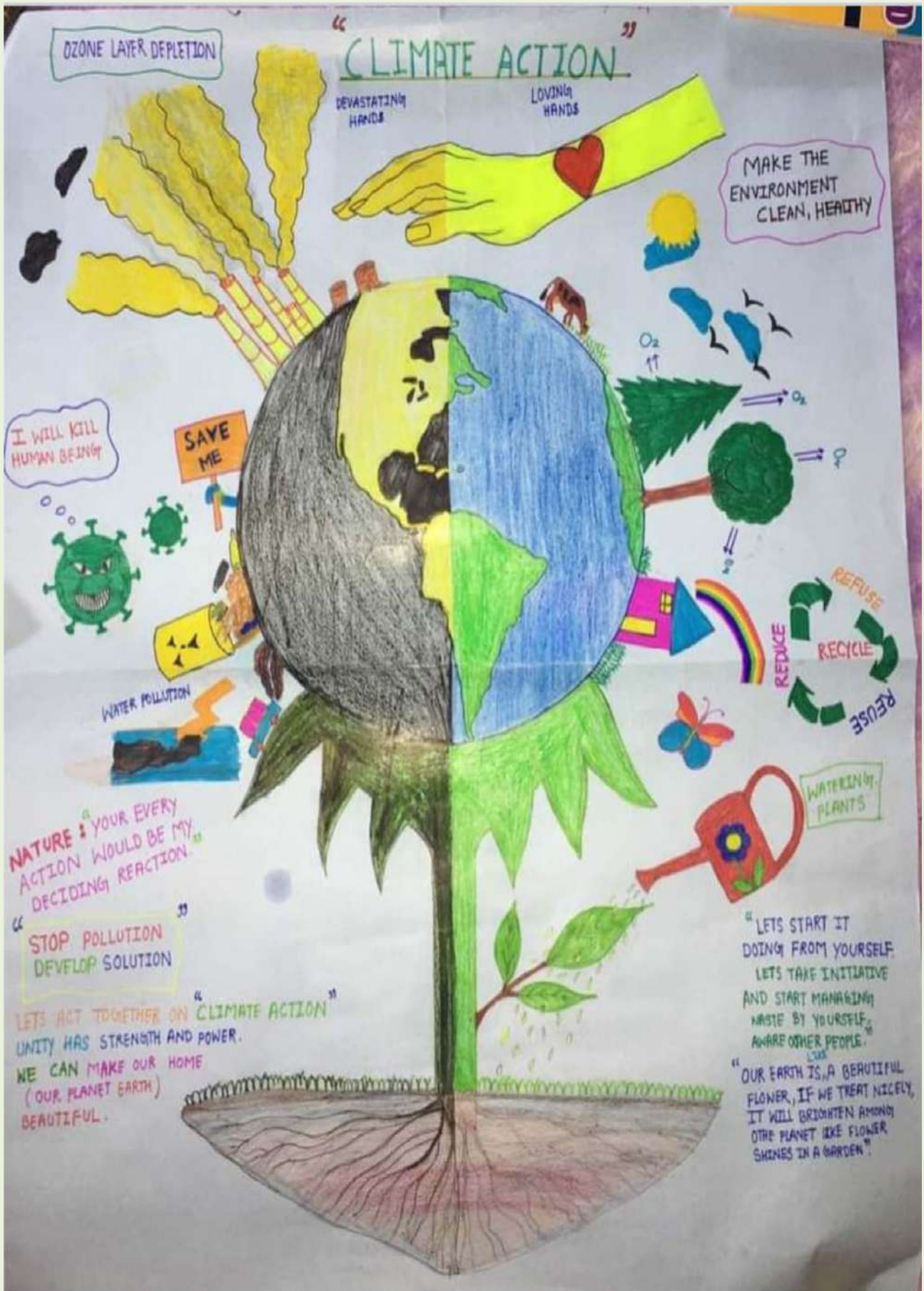


I don't want to protect Environment, I want to create a world. Where the Environment does not need protecting.

SHRI SHIKSHAYATAN SCHOOL  
DIYA DAS, CLASS- IV D, Roll No. 27

DIYADAS, mygov\_163760157796598081 (CID No. 124956601)

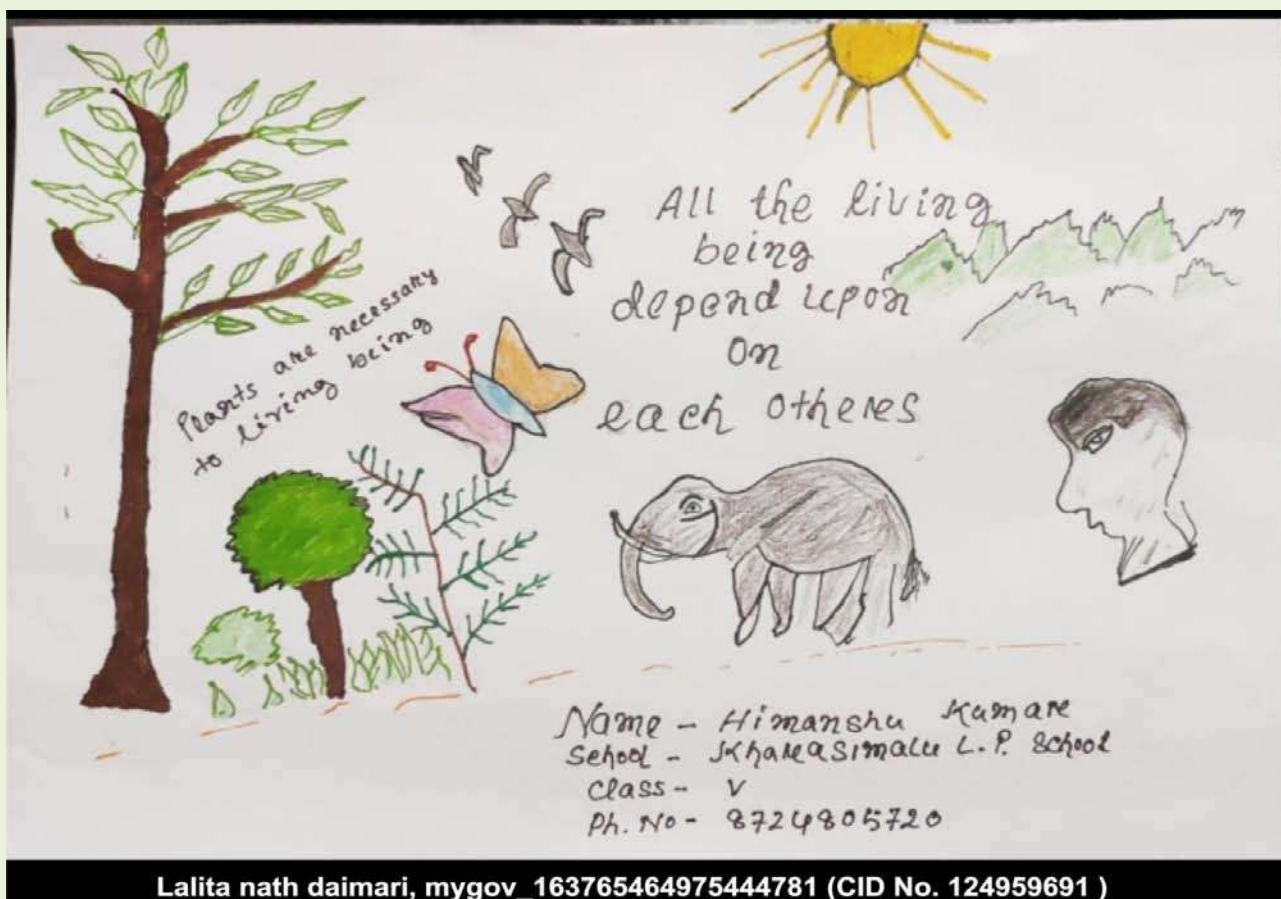




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AJAY KARTHICK, mygov\_163712721979662611 (CID No. 124915471)

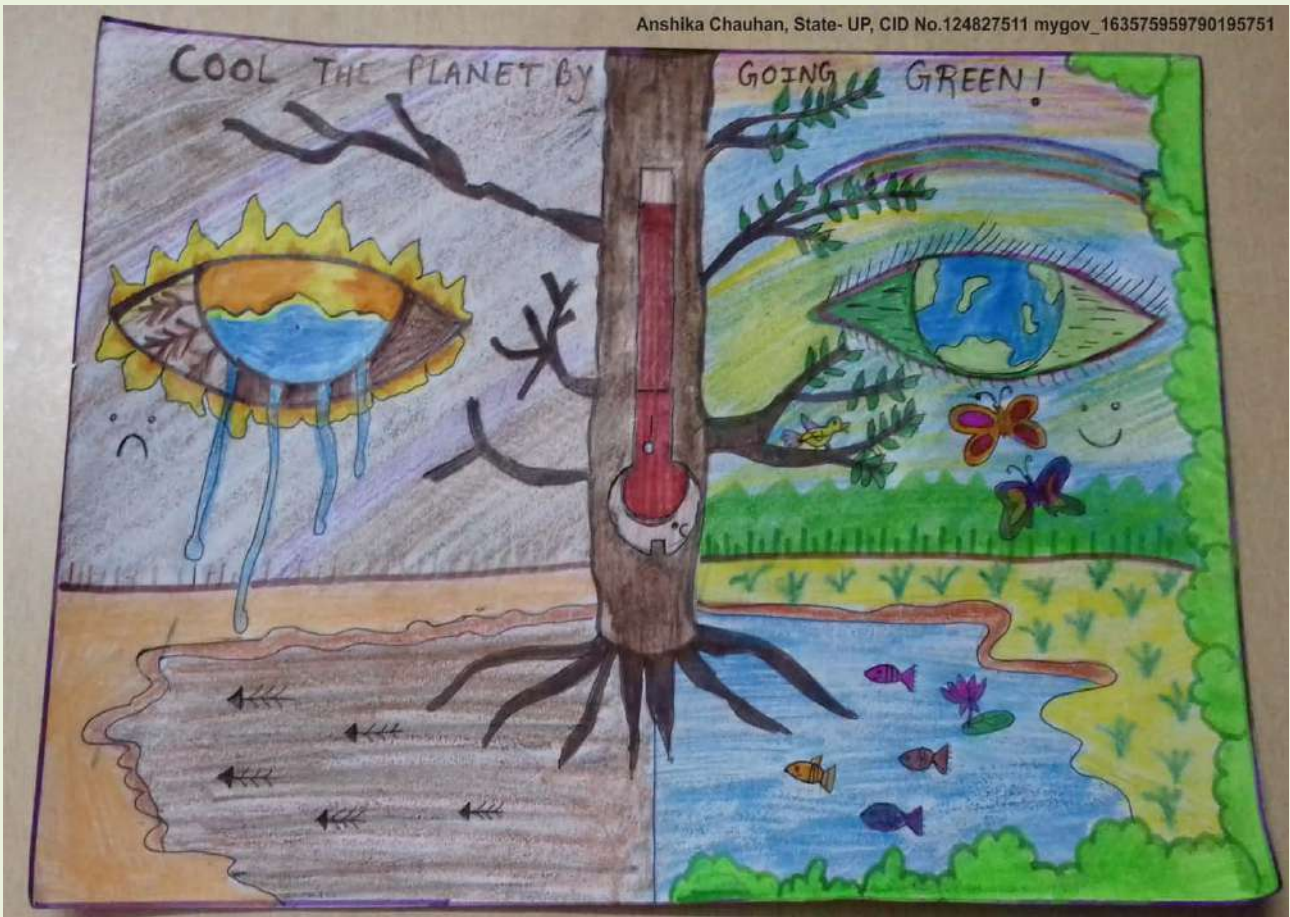


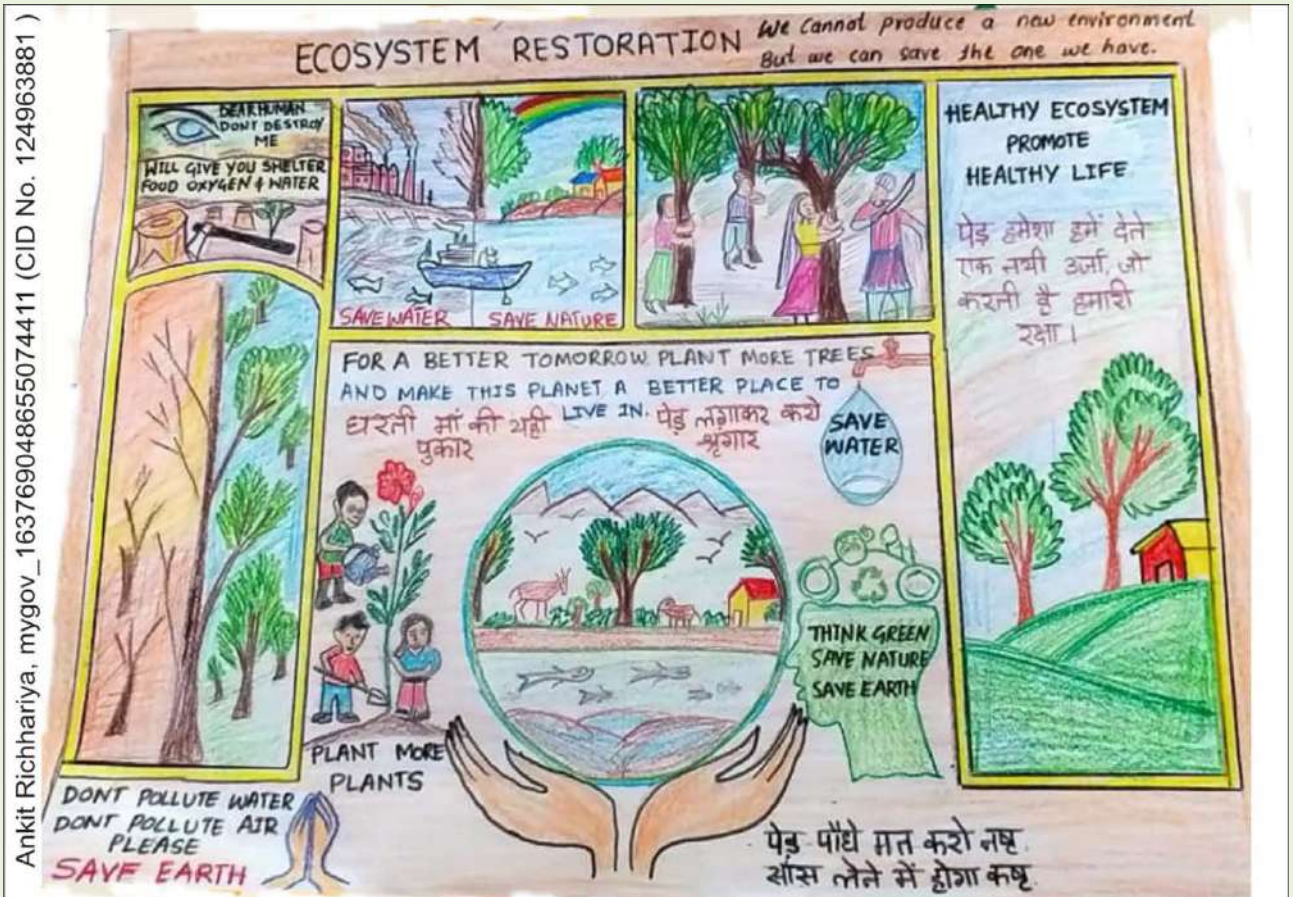


Anjali Anil Patil, mygov\_163689115562378921 (CID No. 124696741)



Anshika Chauhan, State- UP, CID No.124827511 mygov\_163575959790195751







Ashutosh mygov\_163498107280013321

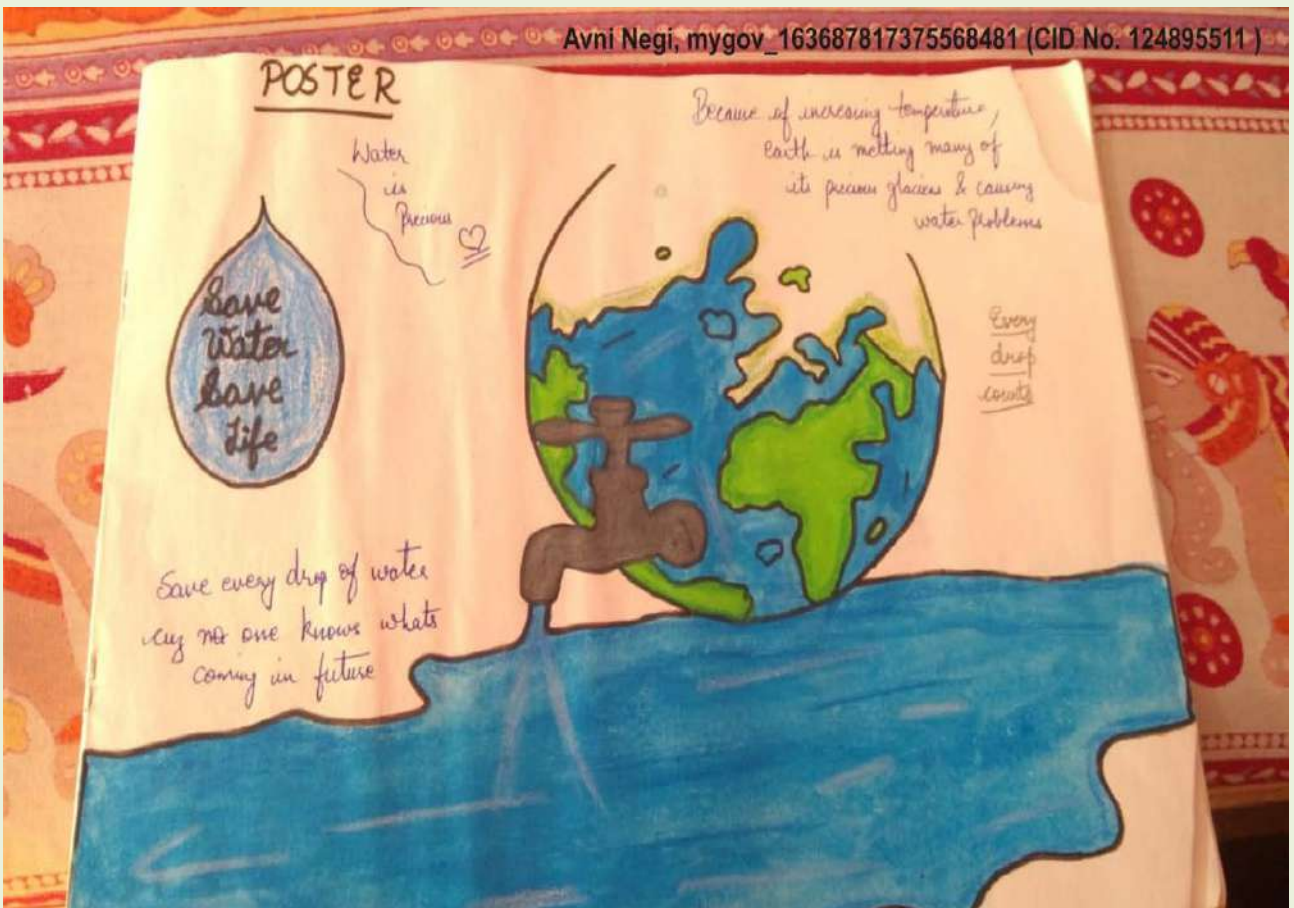


CID No. 124954701 mygov\_163759234196658561









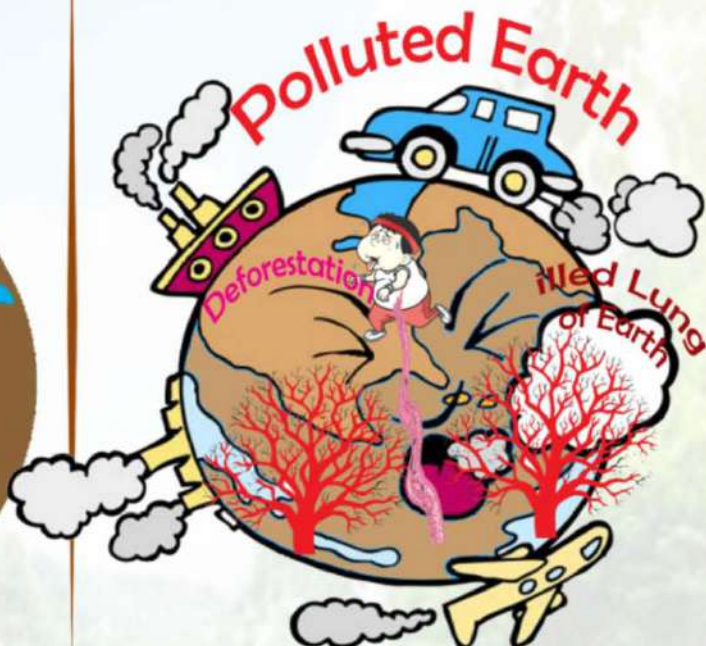
AvniAsati CID No. 124791181 mygov\_163508346496128731



BabySengupta, State-Assam, CID No. 124814091 mygov\_163551850793463061

## Weather & Climate Sciences

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आज़ादी का  
अमृत महोत्सव



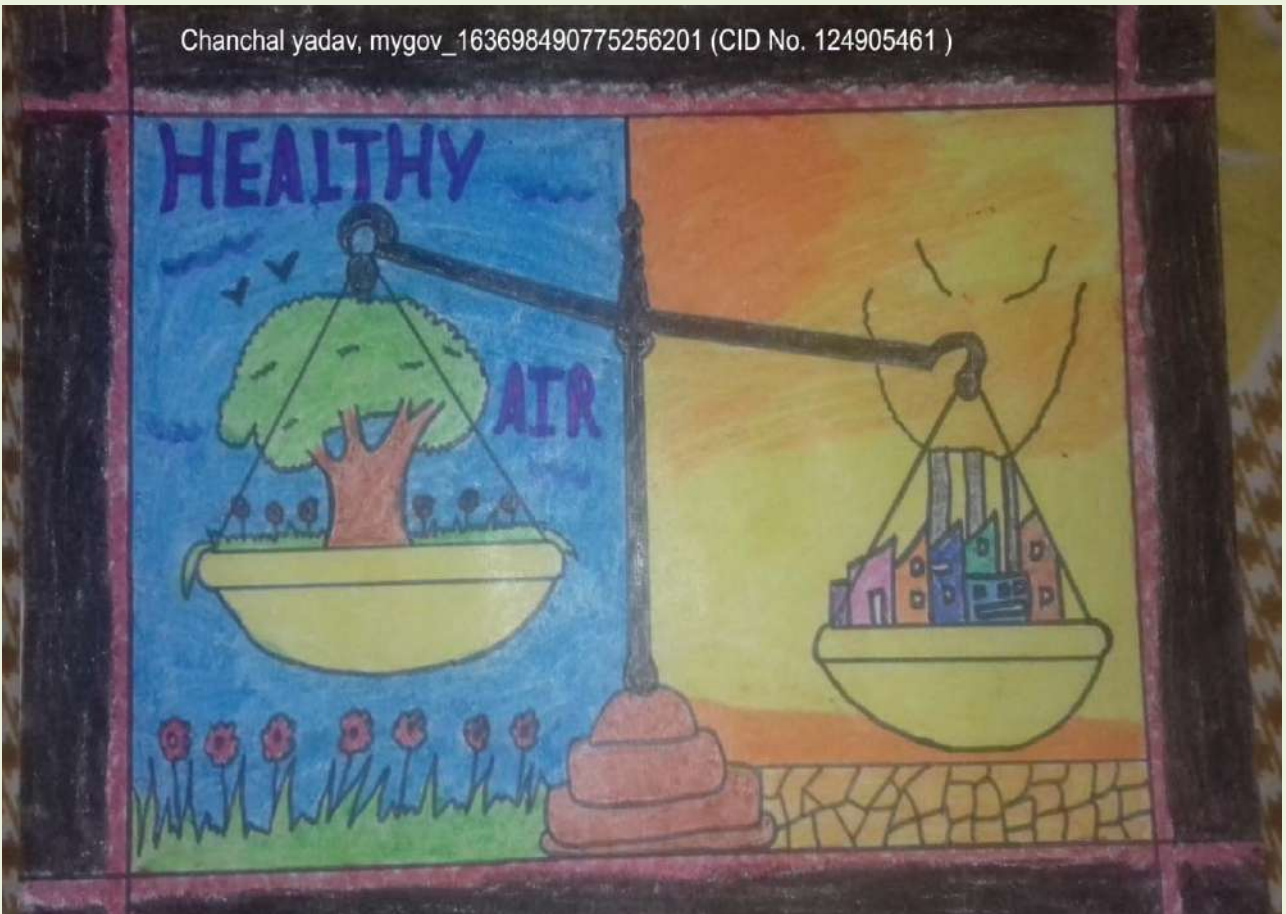
Trees are Lungs of Earth and we are the children of Mother Earth

Mother is Healthy with Healthy Lungs and We will be safe with Healthy Monther





Chanchal yadav, mygov\_163698490775256201 (CID No. 124905461 )



ChandrimaDasSengupta, State- Assam, CID No.124814171 mygov\_163551936893463761



# Do & Don't for safety of Weather & Climate

## DO

*Collective Effort for*

**Climate**

## DON'T



**Increase Plantation**



**Reduce Plastic**



**Use Alternate Energy**



**Save Water,  
No to Water Pollution**



**Use Electric Vehicle**



**Reduce Greenhouse Gas**

*Do Healthy Live Healthy*

chinthala suraj, mygov\_163739162291640631 (CID No. 124932871 )

## CLIMATE

The average weather conditions of a particular region.

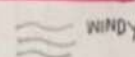
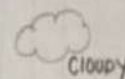
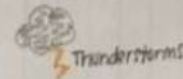


**FACTORS**  
used to describe  
**CLIMATE:**  
Average Temperature  
Average Rainfall



## WEATHER

The condition of the troposphere at a particular time & place, changes from day to day.





Smart Eco City,  
Smart Eco Village with  
Eco Farm, Eco Home and  
Eco Offices can be planned  
and developed to save  
the Environment for  
Eco Friendly Nation



Chirag Bharatkumar Mistry, mygov\_163690225496358391 (CID No. 124898181)



bhavana kamariya, CID No.124810581 mygov\_163543664094381981

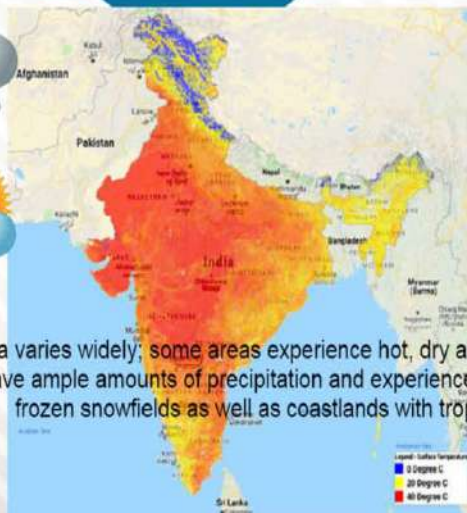


CID No. 124958741 mygov\_163764566915094681

## Weather and Climate

Weather means conditions of a place for short duration

Climate means condition of an area for long period of time



Indian climate The climate of India varies widely; some areas experience hot, dry and arid conditions while the mountainous regions experience cold temperatures, have ample amounts of precipitation and experience a change in seasons. India contains permanent frozen snowfields as well as coastlands with tropical climates.

CID No.124901811, mygov\_163695947896506911

Amal TP, mygov\_163628078296358881 (CID No. 124854841 )

*weather refers to short-term changes in the atmosphere,*



*climate describes what the weather is like over a long period of time in a specific area.*

Cariappa mygov\_16349977735444401







CID No. 124904451 mygov\_163697760389617091



DebanjanaBasu, mygov\_163756887096644031 (CID No. 124951191 )

Deepthi, mygov\_163634856096386411 (CID No. 124857661)

# WEATHER & CLIMATE

### Clouds

Clouds are water. Clouds form when water vapor from liquid and gas... (text continues)

### Global Climate

### The Water Cycle

### Wind Patterns

### Seasonal Changes

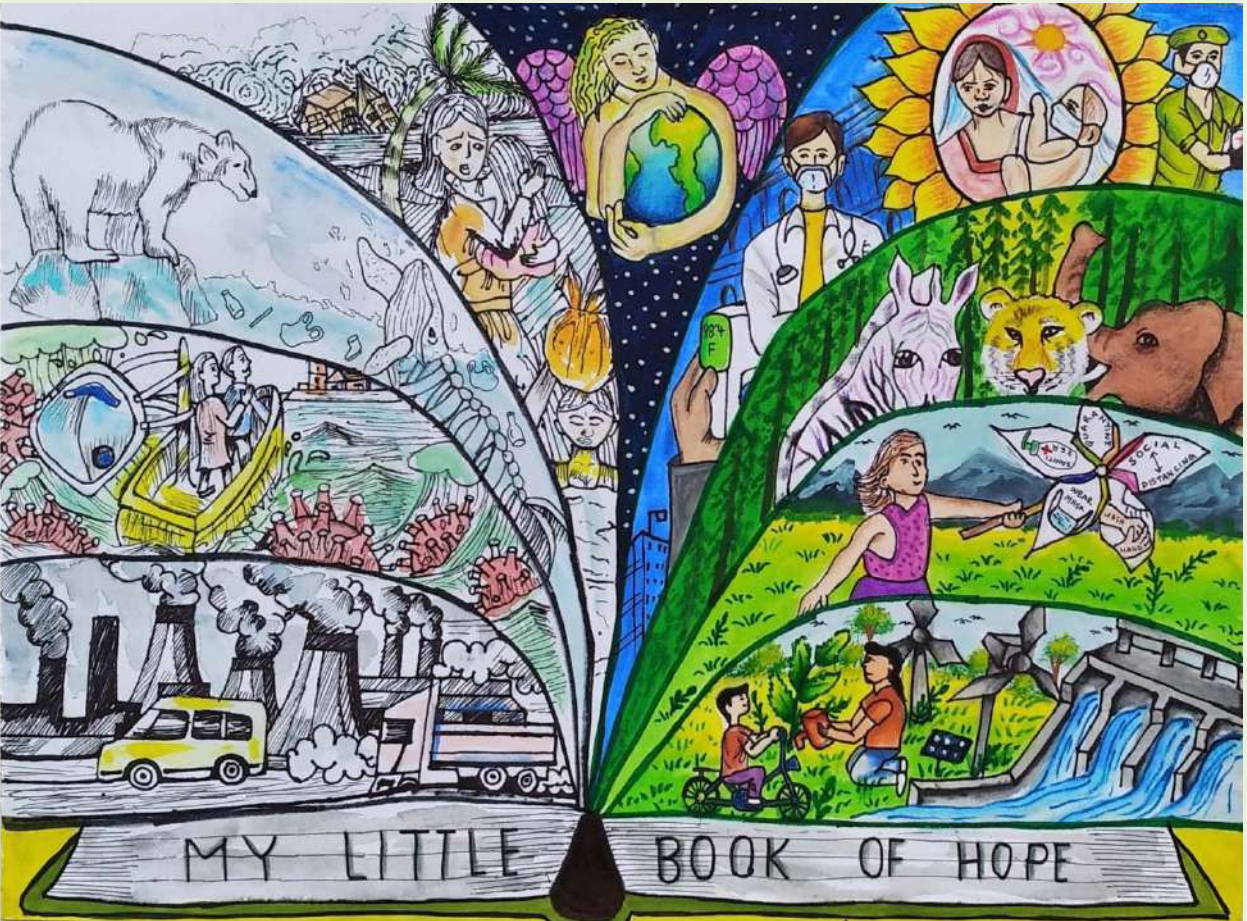
### Predicting the Weather

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GORAKHNATH BHASKAR PAWAR, mygov\_163750691051248291 (CID No. 124946731)



DEEPSHIKHA DE, mygov\_163734092552283891 (CID No. 124930201 )



MUSKAN A, mygov\_163758456096653791 (CID No. 124953291 )

DR Dinesh Choudhary mygov\_1635051117198565



DivishaArora mygov\_163627503090028371 (CID No. 124854471 )



Save ozone layer to save lives

ChrisGurjao, mygov\_163769046894881721 (CID No. 124963911 )



CLIMATE MONITORING = DISASTER PREVENTING



( CID No. 124836771 ) mygov\_163600914950918011





### Climate

The average weather conditions of a particular region.

Factors used to describe climate  
average temperature,  
average rainfall

### Weather

The condition of the troposphere at a particular time & place; changes from day to day.

clouds

rain

sun

wind

snow

fog

chilly

hot

warm

cold

showers

freezing

breeze

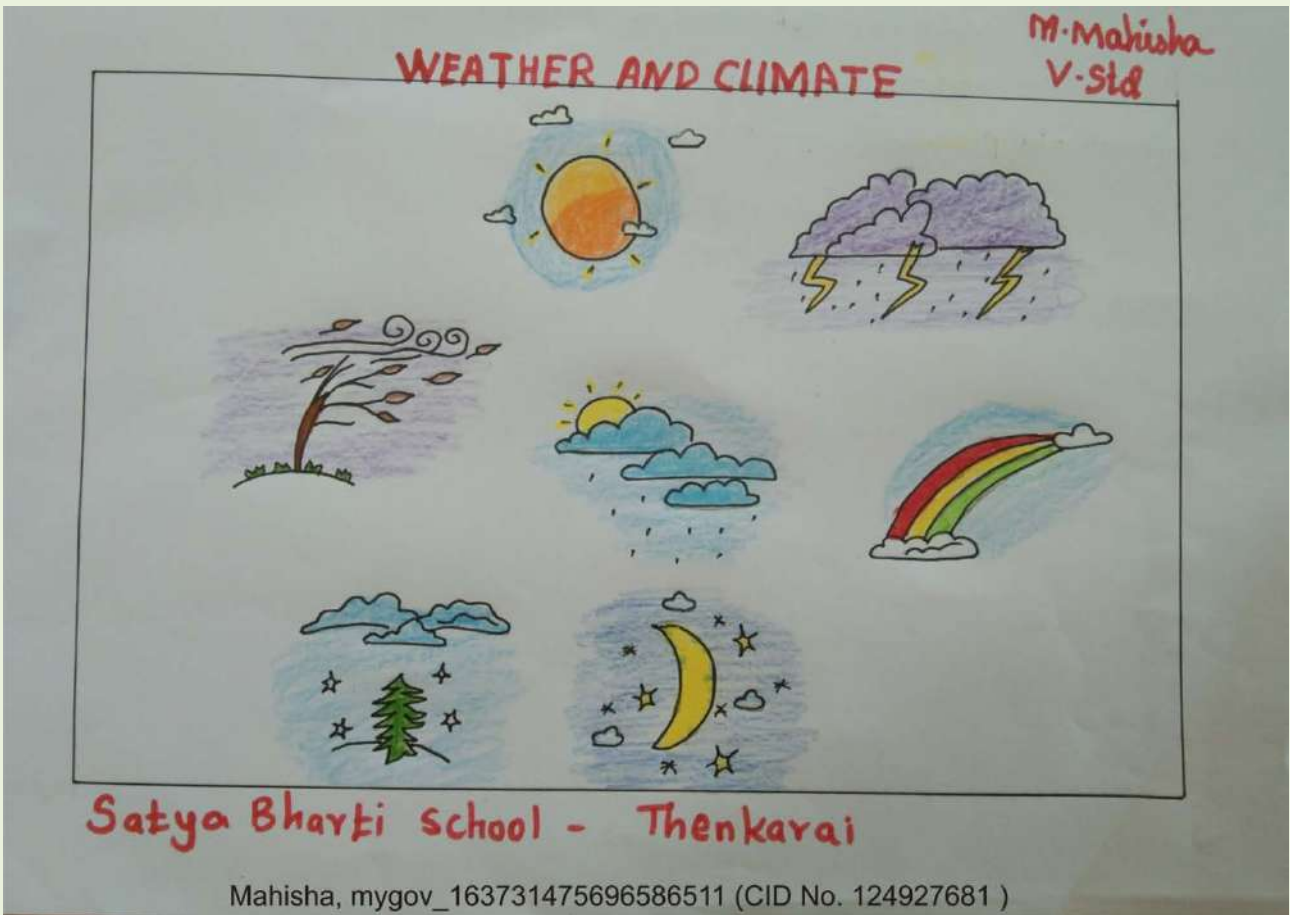
stormy

sleet

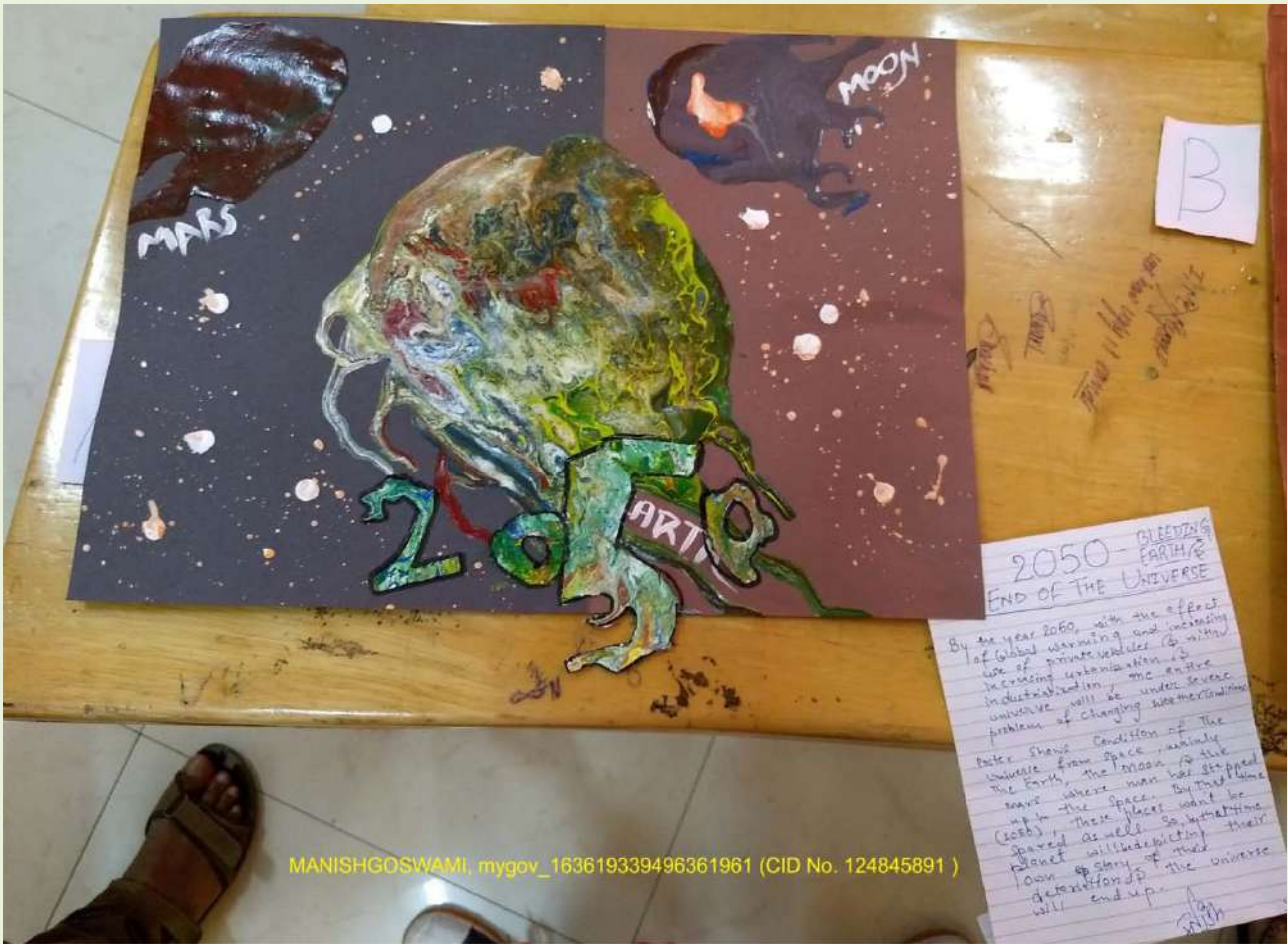
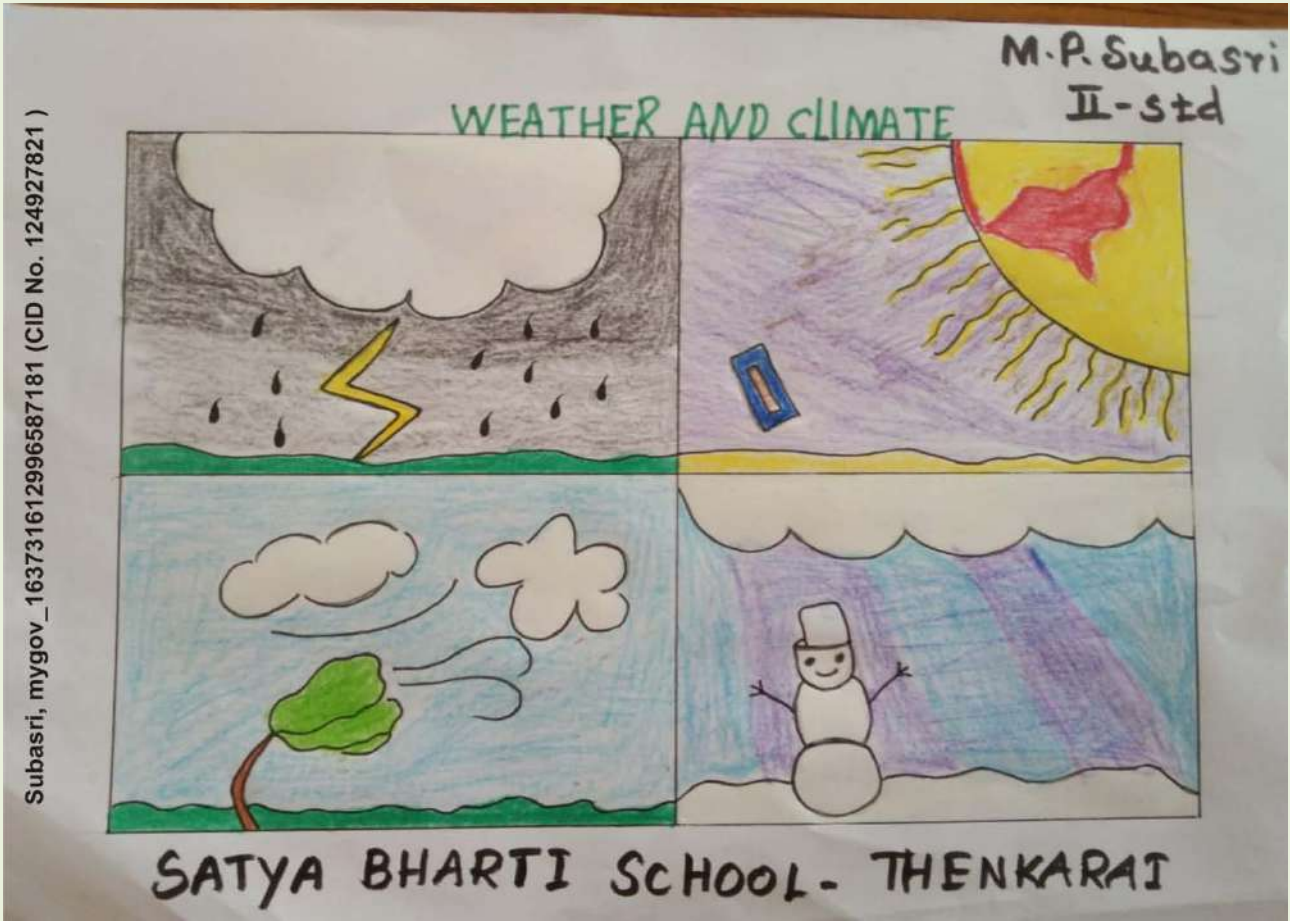
clear

M S Kumar swami mygov\_163503893830840724

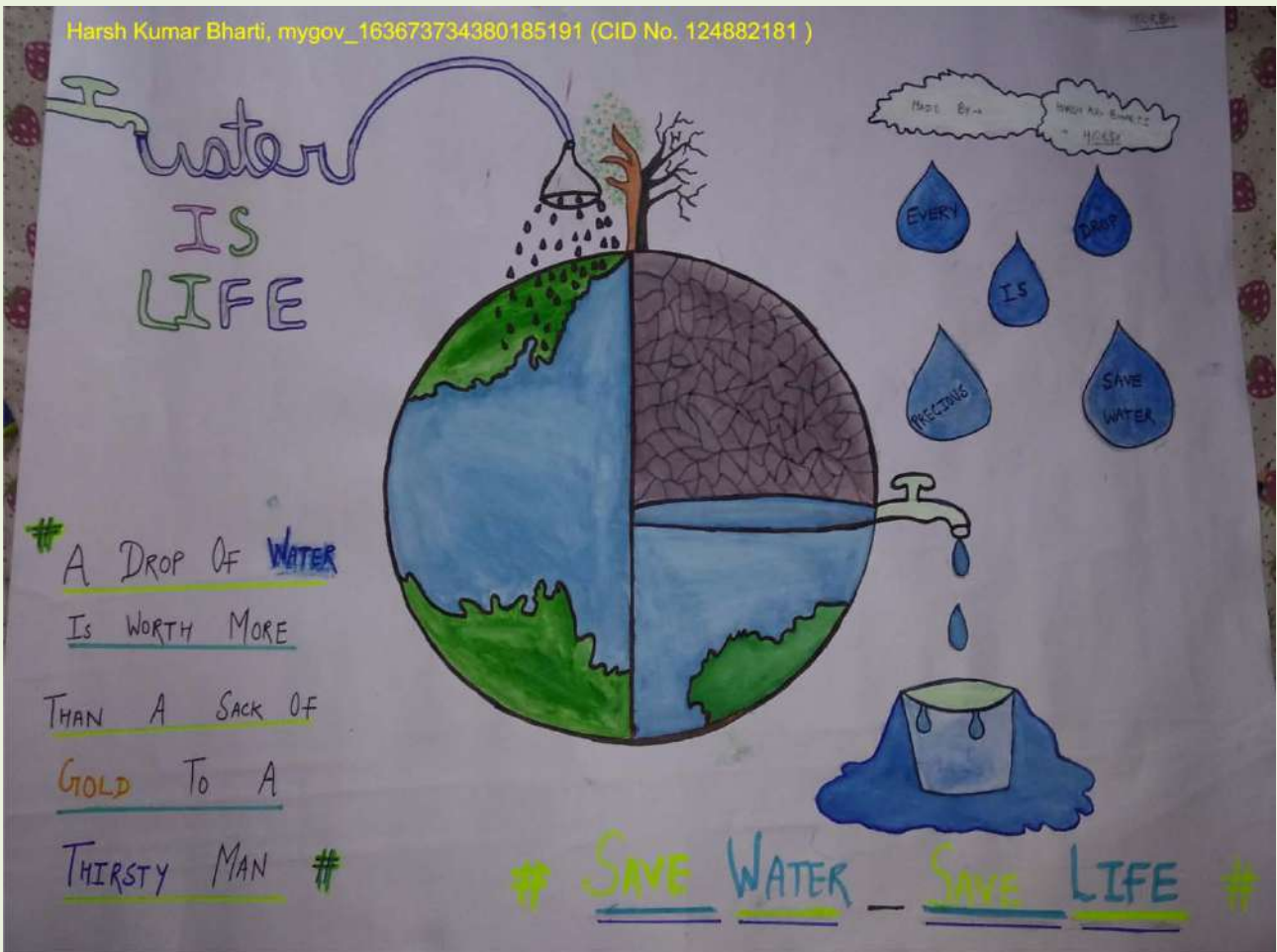








Harsh Kumar Bharti, mygov\_163673734380185191 (CID No. 124882181)

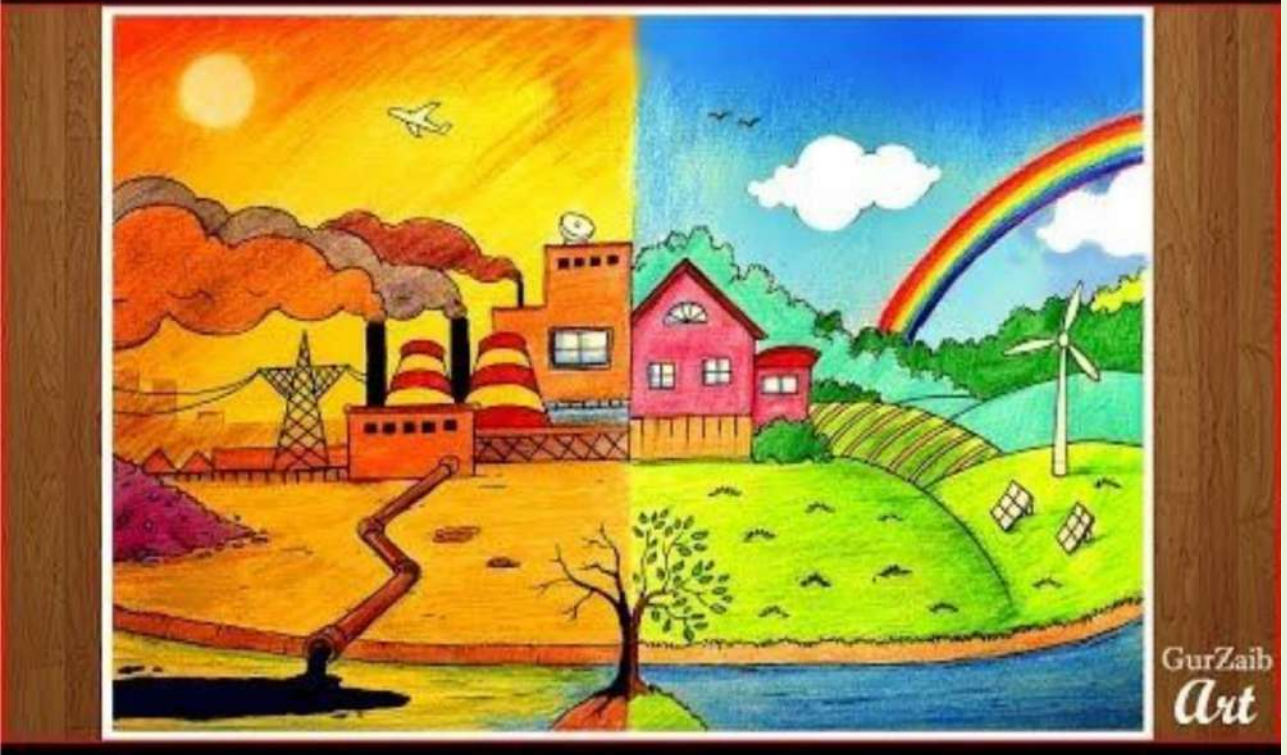


Joy Joseph mygov\_163501057296099781





Muskan Malik, mygov\_163705584996528581 (CID No. 124911181 )



Hitendra Firke, CID No. 124819941 mygov\_16356160821314583



## WEATHER CHART



CLOUDY



PARTLY  
CLOUDY



RAINY



THUNDER  
STORMS



SNOWY



SUNNY



TORNADO



WINDY

Jyothika R H, CID No. 124796681 mygov\_163517115875624151

# Weather & Climate

**MS-ESS2-5**  
**Air Masses**  
motion & Interactions

L ↔ H

**Weather Changes (predictions)**  
temp. / pressure / humidity / wind / precip.

**Examples of Data:**  
weather maps / diagrams / visualizations / lab experiments

- rain  
- warm front  
- cold front  
- thermometer

H - high  
L - Low  
⊙ - wind  
☀ - solar

**MS-ESS2-6**  
**Patterns** - geographic land distribution

latitude altitude

**Ocean Circulation**  
global ocean convection cycle

**Coriolis Effect**

**Examples of Models:** maps, diagrams, globes, digital representation

**MS-ESS3-5**  
**Changing Global Temperatures**

**Human Activities:** agricultural activity, fossil fuels, cement production

**Natural Processes:** changes solar radiation, volcanic activity

**Atmospheric Circulation**  
latitudinal banding / prevailing winds

**Examples of Evidence (tables, graphs, maps):**  
- global & regional temps.  
- atmospheric levels of gases  
\* carbon dioxide  
\* methane

M S Kumar Swami mygov\_163503895430840724

## SLOGAN: STAY INFORMED, STAY SAFE

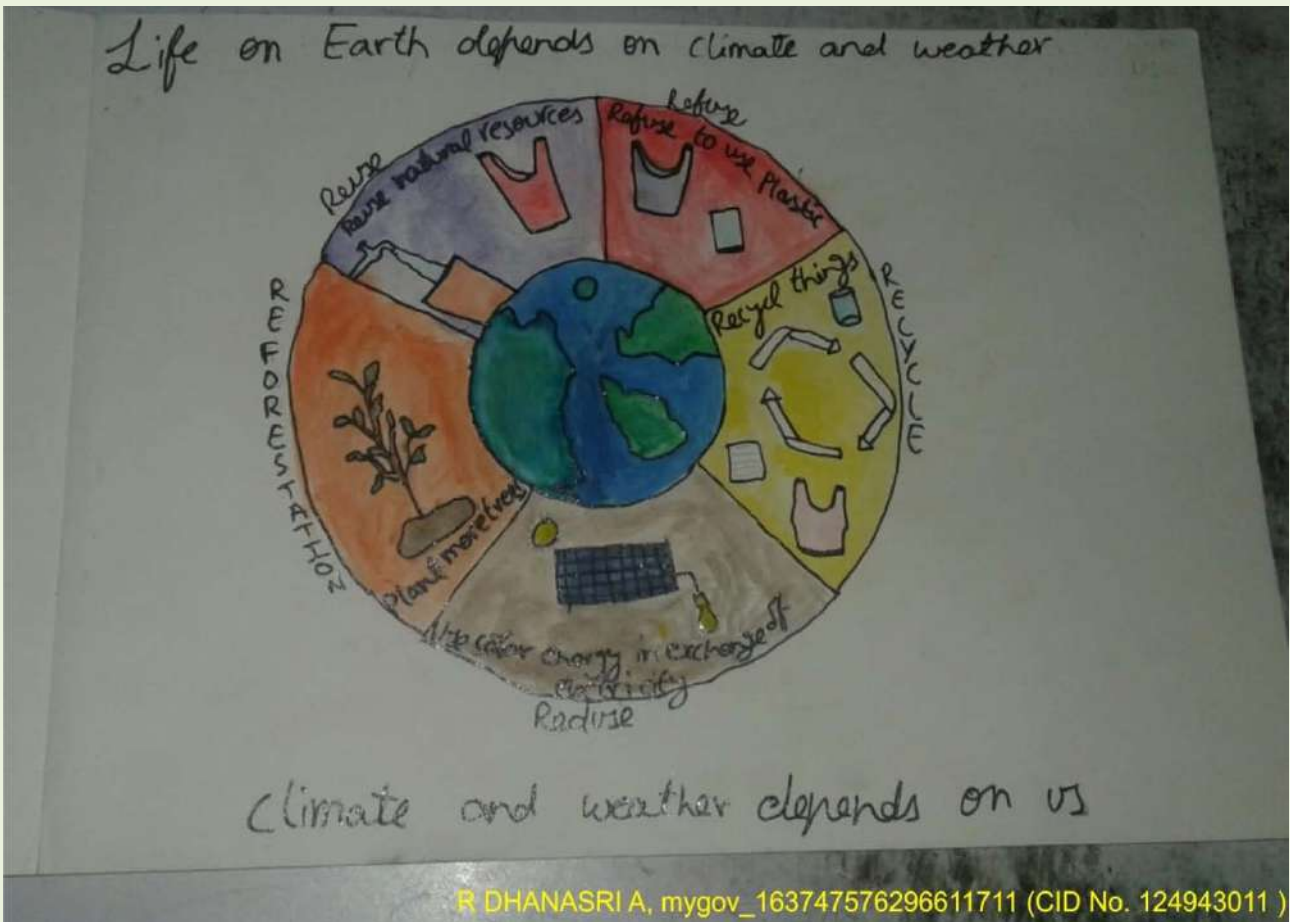
TEMPERATURE DECREASES WITH HEIGHT

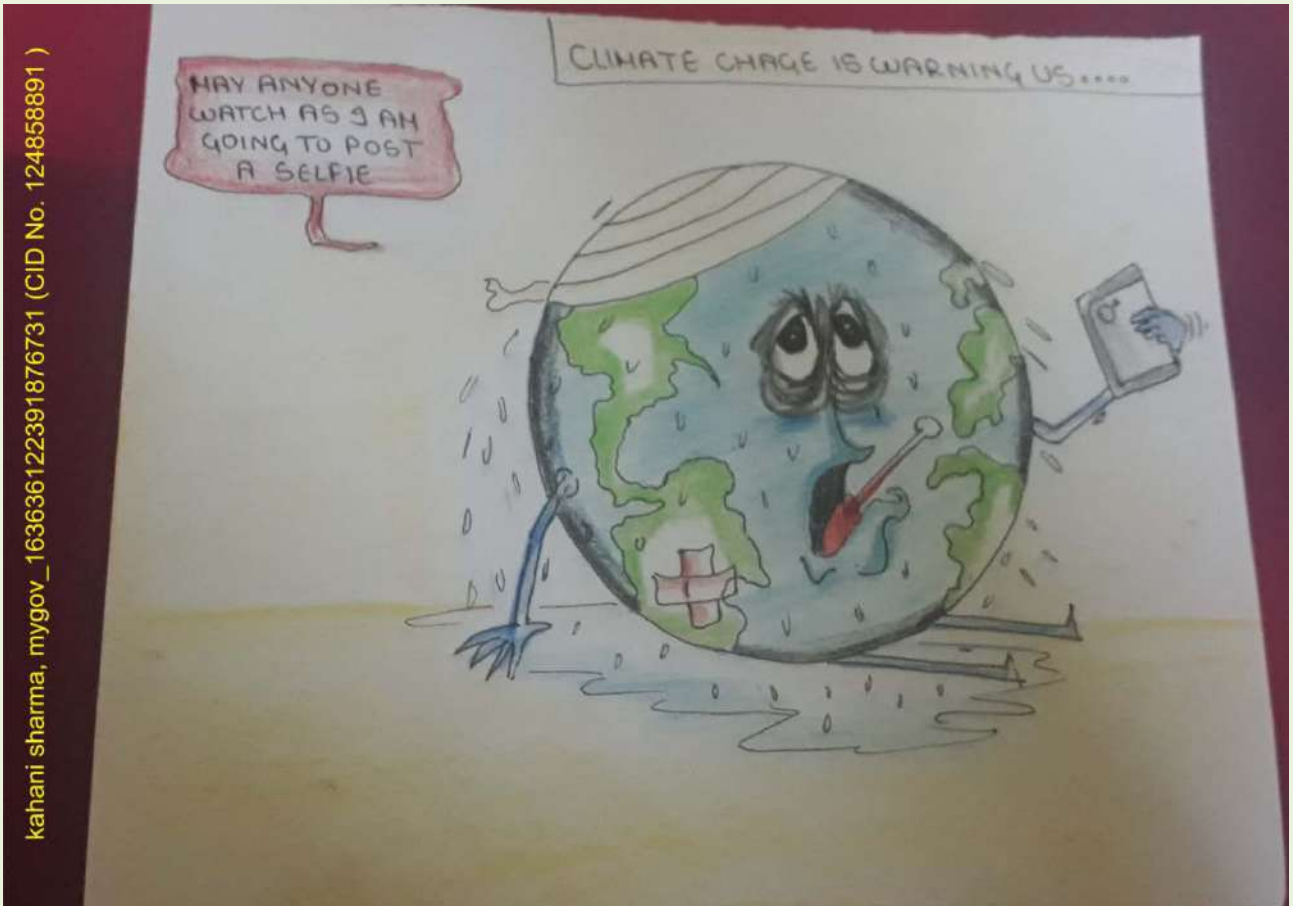
↑ temp decrease

**IMD**

THE HIMALAYAS SHIELD US FROM THE COLD NORTHERN WINDS

NirmalaPebam, mygov\_163688051295278241 (CID No. 124895781)





MAUSAMRANI, mygov\_163599362094258401 (CID No. 124836091)

# WEATHER & CLIMATE

### Clouds

Clouds are made of tiny water droplets and get water from rain, oceans and ground water. The size of clouds varies from a few micrometers to several kilometers. They are made of water or ice. They are made of water or ice. They are made of water or ice.

### Global Climate

Climate is the weather of an area over a long period of time. It is influenced by factors such as latitude, altitude, distance from the sea and vegetation. Climate types are defined by temperature and annual precipitation. They include - Tropical, Arid, Temperate marine, Temperate continental, Highland, and Polar.

### The Water Cycle

Water is a key component of life on our planet. About 71% of the surface of the Earth is covered by water which is a constant motion between the atmosphere, the oceans, and land. The balance of water on Earth is generally constant over time but undergoes a constant transformation through evaporation. The water cycle is a driving force for the weather in our atmosphere and on the ground.

### Predicting the Weather

Weather is the state of the atmosphere at a given time and place. It is determined by the temperature, humidity, and wind speed. Weather is the state of the atmosphere at a given time and place. It is determined by the temperature, humidity, and wind speed.

### Wind Patterns

Wind is caused by the uneven heating of the surface of the Earth. It is caused by the uneven heating of the surface of the Earth. It is caused by the uneven heating of the surface of the Earth.

### Seasonal Changes

The Earth's axis is tilted at an angle of about 23.5 degrees to the perpendicular of its orbit around the Sun. This tilt causes the Earth's axis to be tilted at an angle of about 23.5 degrees to the perpendicular of its orbit around the Sun.



Meenakshi Hooda, mygov\_163747713058076691 (CID No. 124943221)



Namrata Dwivedi, mygov\_163748400555368361 (CID No. 124944111)



Krishna B Gawas, mygov\_163604965188051271 (CID No. 124838071)



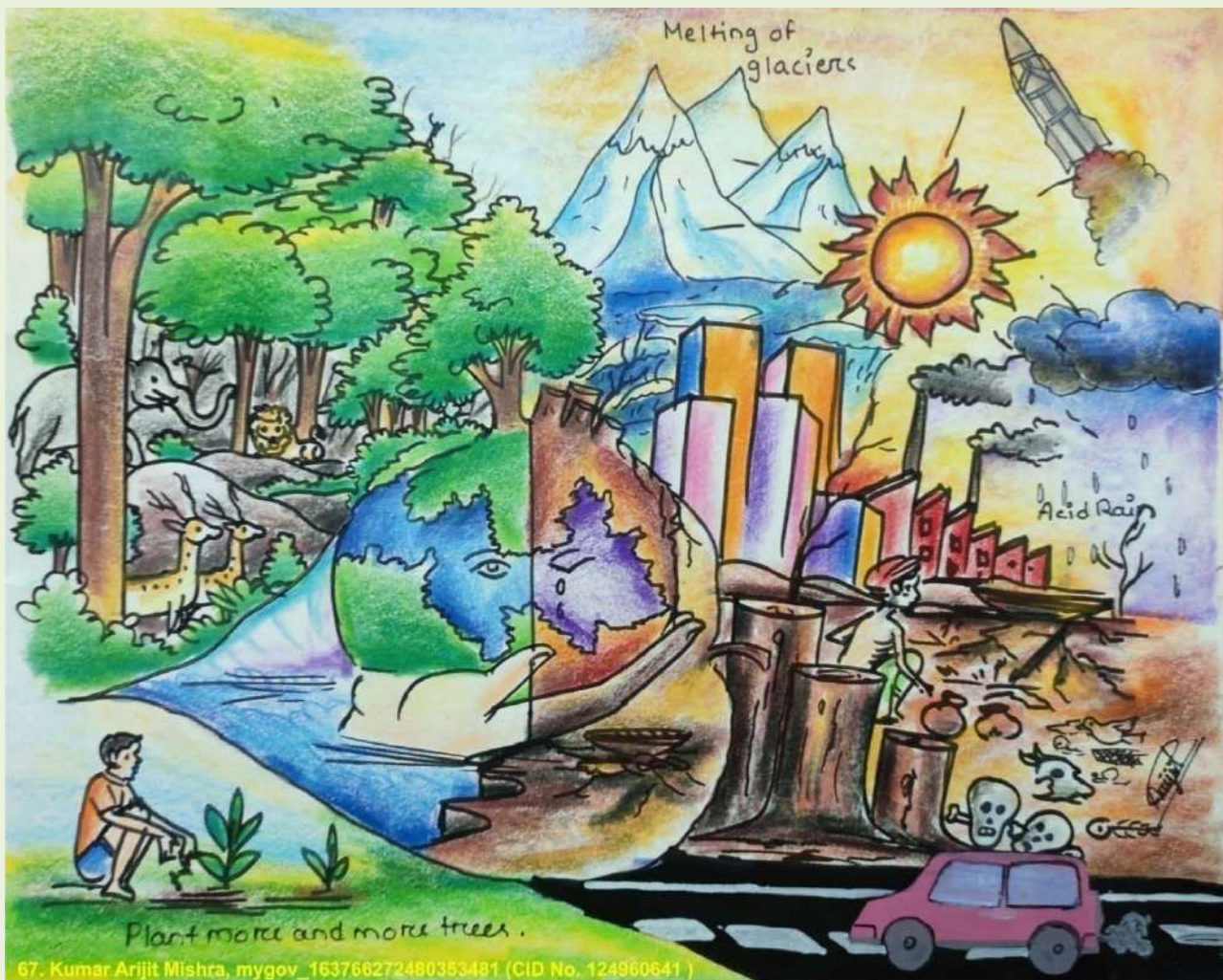
Megha Ravee Neal, mygov\_163672315396457711 (CID No. 124880561 )



Save Earth, Save lives!!

Pranjali Joshi, mygov\_163766956196374811 (CID No. 124961281 0





## Weather versus Climate

*What's the Difference?*

### Weather

Weather is temporary and only lasts hours or days at the most. For example, a sunny day can turn rainy very quickly.

When you are outside and look into the sky, you may notice clouds, sunshine, rain, fog, or a combination of conditions. This is the weather.



### Climate

Climate is the measurement of average weather conditions for a particular region over many years. Climate looks at long-term patterns in average temperatures, rainfall, humidity, wind or snow.

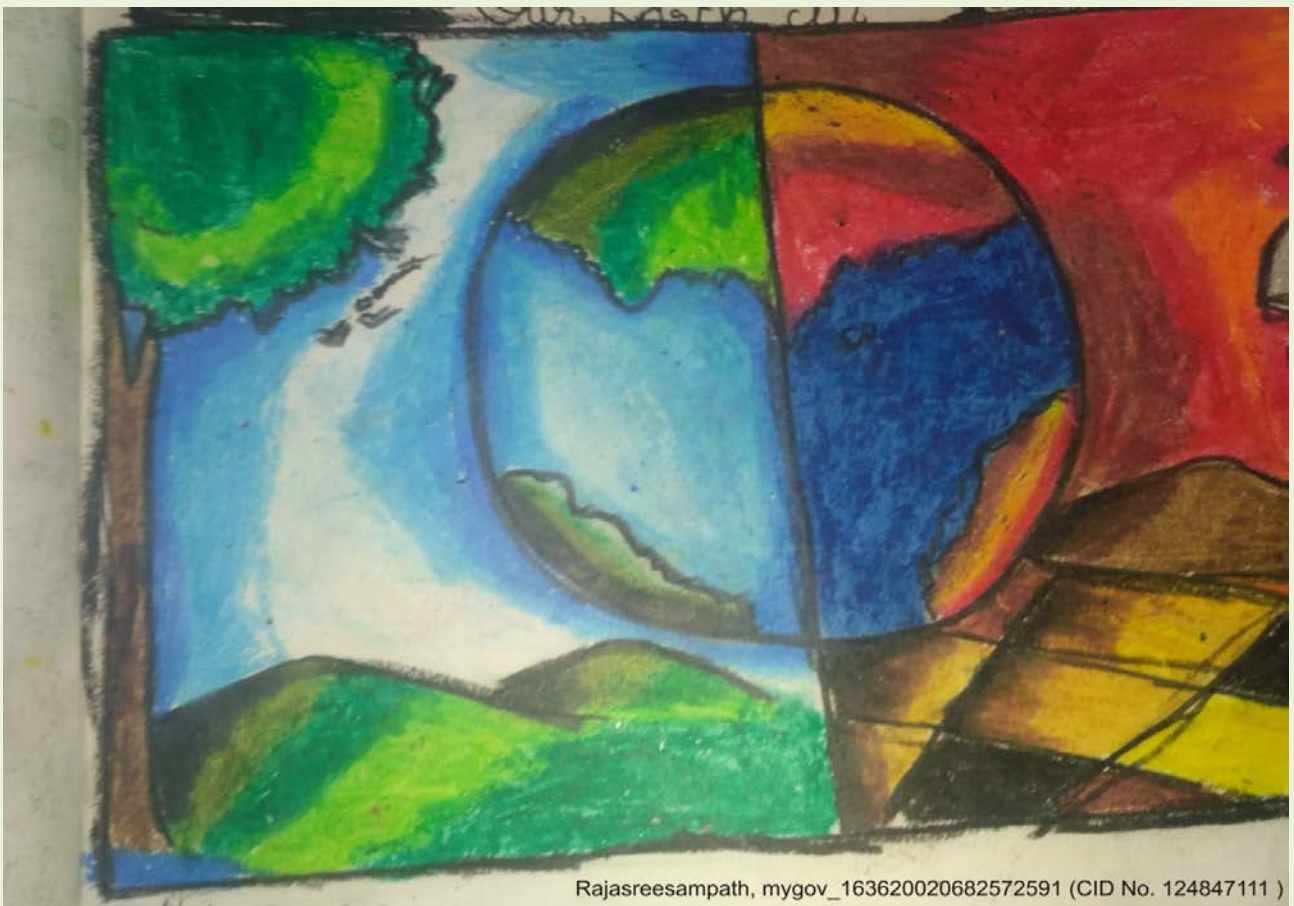
Studying climate can help us record and predict changes that will alter the environment over time.



### Climate Change

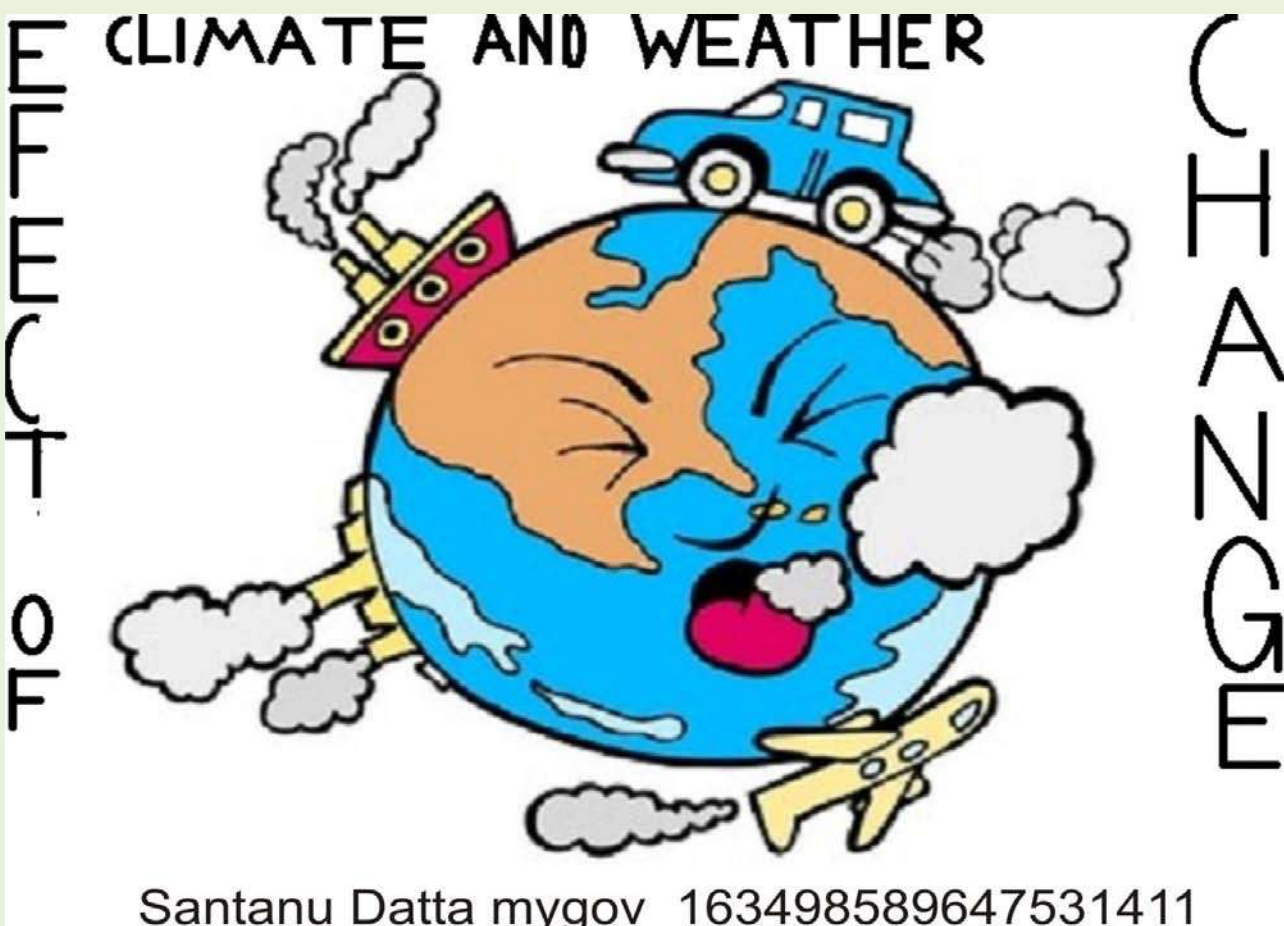
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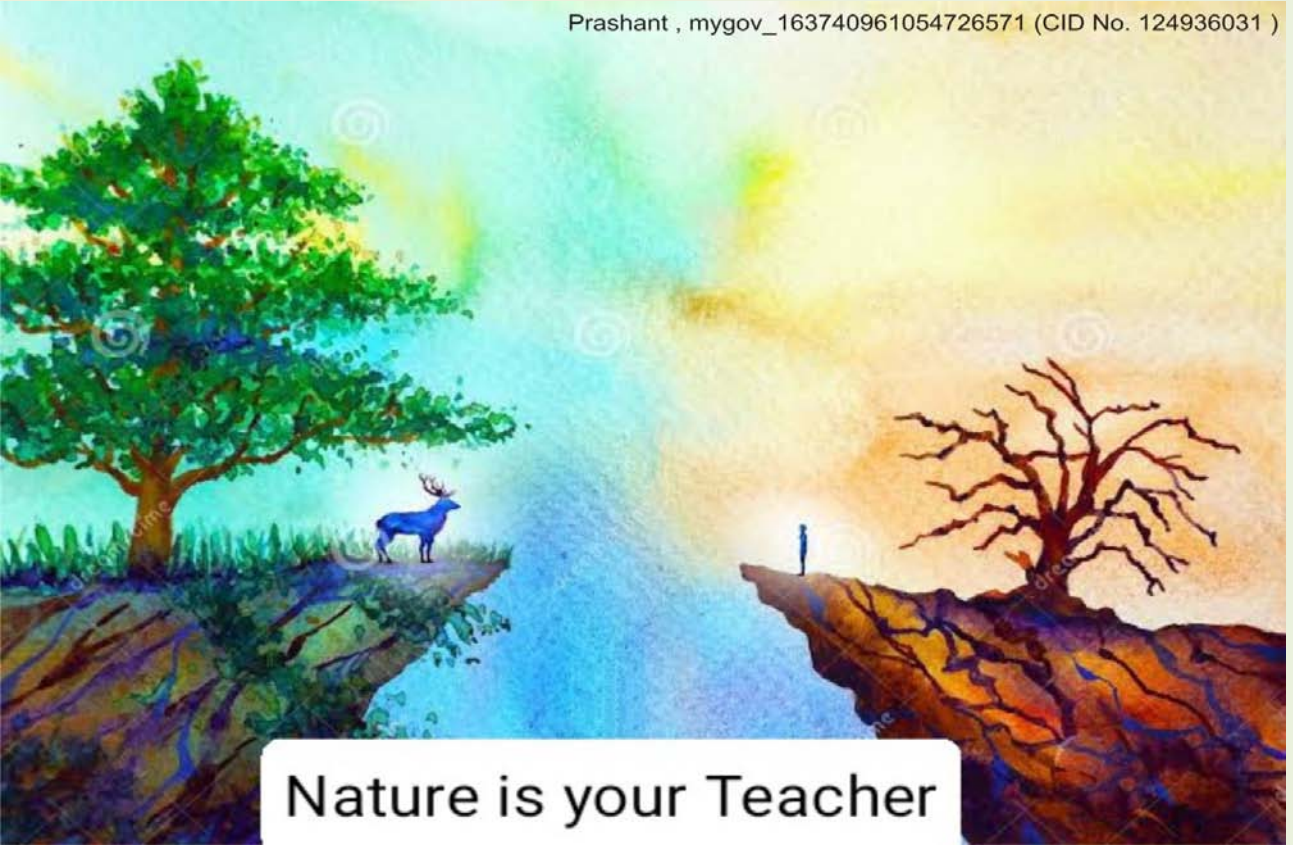
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Prashant , mygov\_163740961054726571 (CID No. 124936031 )



RAJESH MAHATO, CID No: 124811431 mygov\_16354734271212627





# Weather & Climate

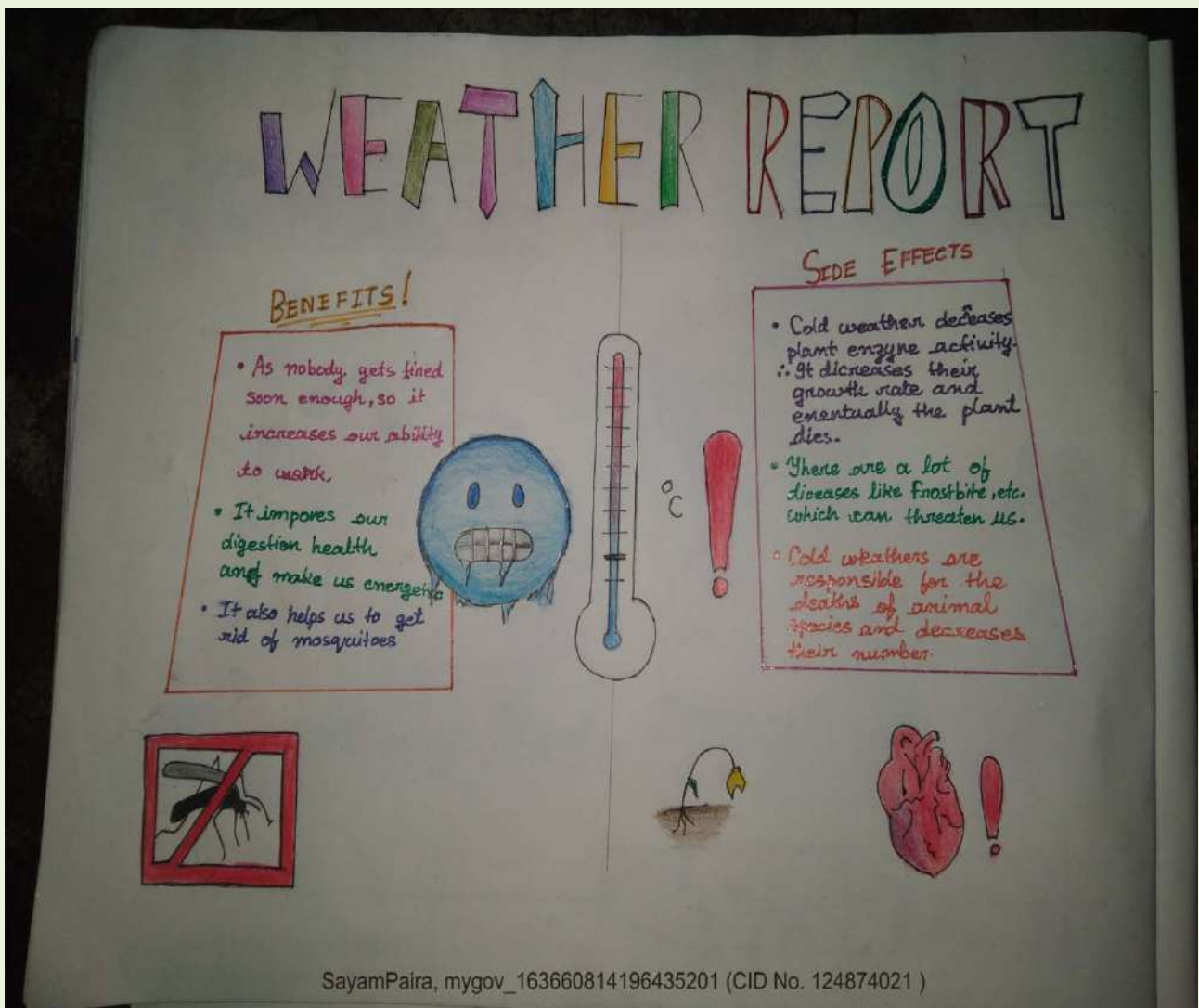
Weather  
can change with in  
few minutes or hours!



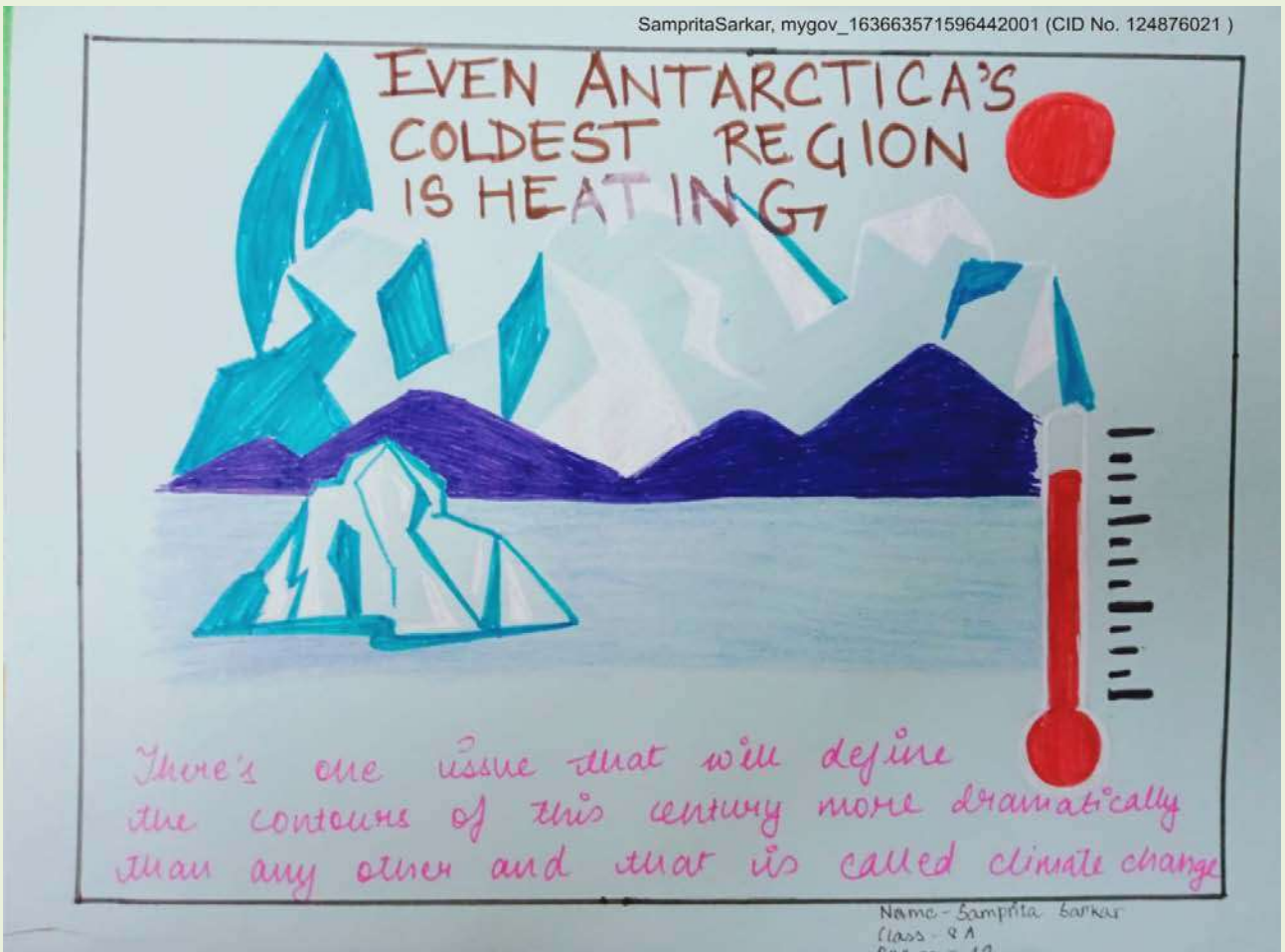
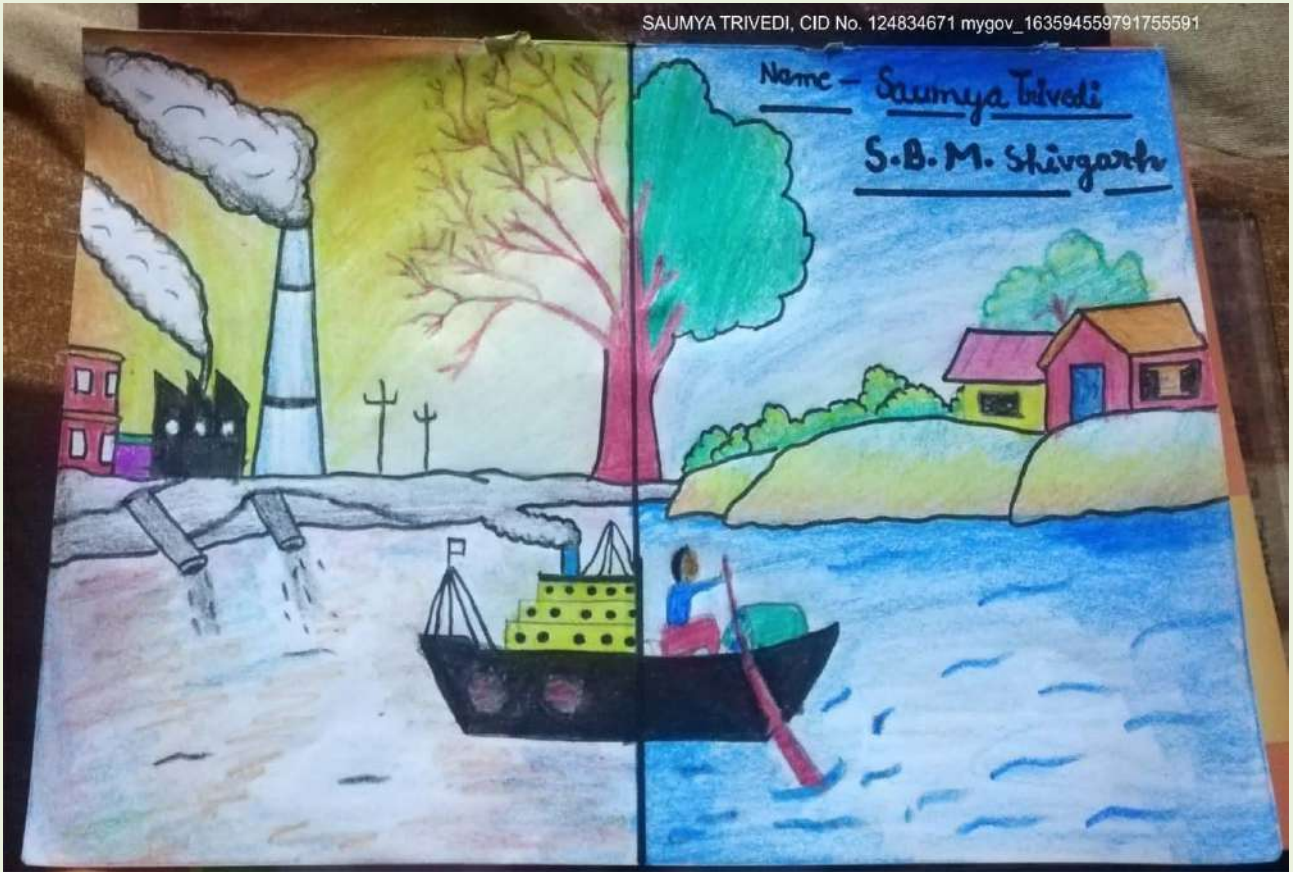
Climate  
takes very long time  
to change!




Prathviraiwar, CID No. 124825031 mygov\_163569647494739541



SayamPaira, mygov\_163660814196435201 (CID No. 124874021)




# Weather and Climate




**Anemometer**  
Measures wind speed in mph.



**Rain gauge**  
Measures precipitation in mm.




**Thermometer**  
Measures the temperature in °C.




**Wind vane**  
Measures wind direction. It points in the direction in which the wind is blowing from.

## World climate zones



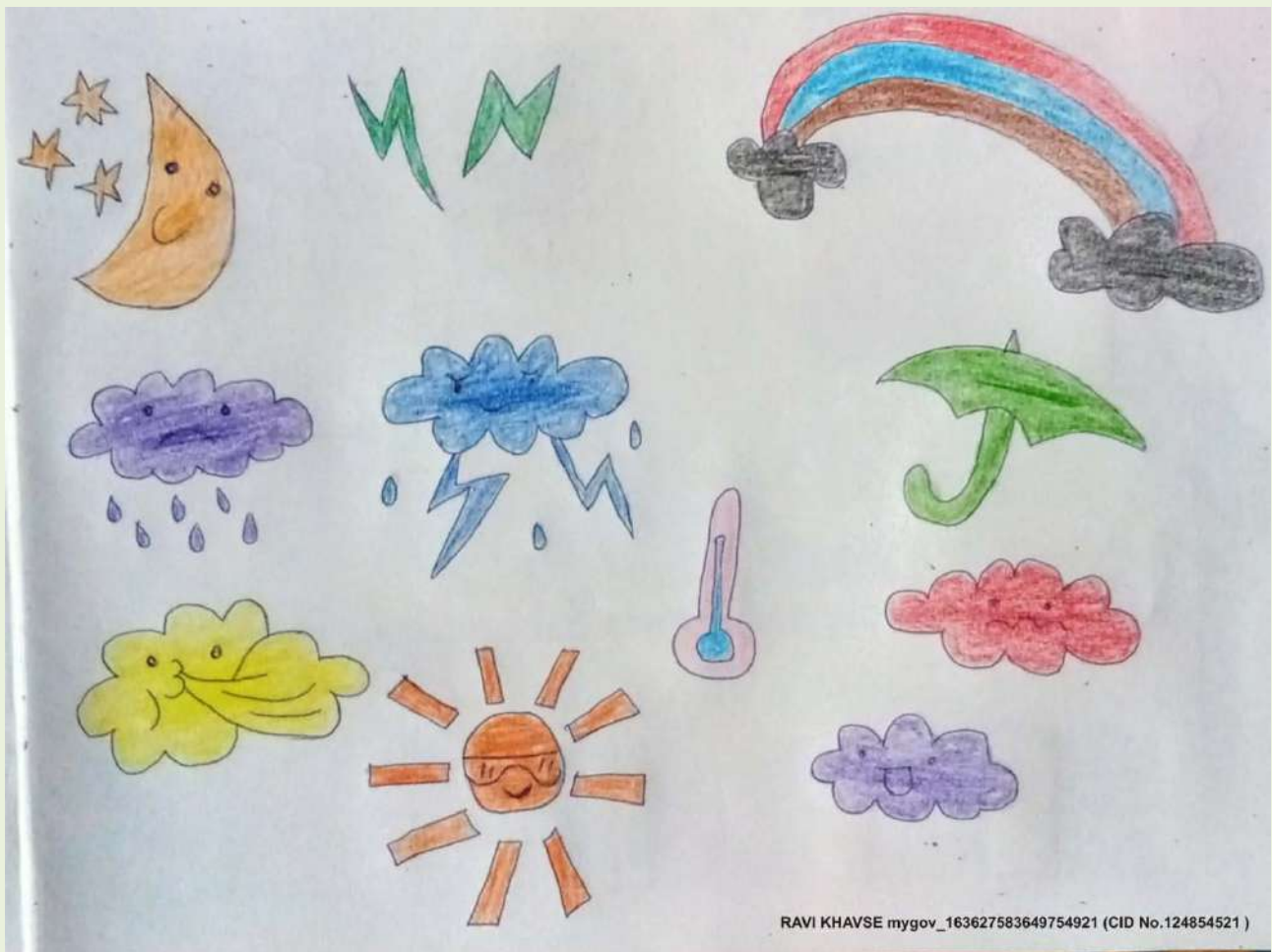
## UK climate graph

The UK Climate is **temperate maritime**. The UK experiences warm summers and cool winters. The Gulf Stream (a warm current of the North Atlantic Ocean) contributes to the mild, maritime climate.



Month	Precipitation (mm)	Maximum Temperature (°C)	Minimum Temperature (°C)
Jan	180	8	2
Feb	170	9	3
Mar	70	11	5
Apr	70	13	7
May	100	16	9
June	60	19	12
July	70	21	13
Aug	140	20	13
Sept	20	18	11
Oct	160	14	8
Nov	110	10	5
Dec	130	8	3

SUTHAHAR P, mygov\_163714458950710931 (CID No. 124917061)



RAVI KHAVSE mygov\_163627583649754921 (CID No.124854521)

### CLIMATE

The average weather conditions of a particular region is called as climate

Ice

Rain

Snow

sleet

Factors used to describe climate

average temperature

Average Rainfall

PRECIPITATION

### WEATHER

The condition of the troposphere at a particular time and place changes from day to day.

clouds

rainy

sunny

Hail

Windy

snow

Foggy

hot

chilly

Freezy

damp

warm

breezy

stormy

clear

TECH WINDOW BY ARZAN, mygov\_163767929996632201 (CID No. 124952601)

Swetha Kannan, mygov\_1637655664213217 (CID No. 124959771)

Go Green ; Save Our Only one living planet ;

Ozone layer hole

Temperature increasing

Save planet ; Save weather & climate ;

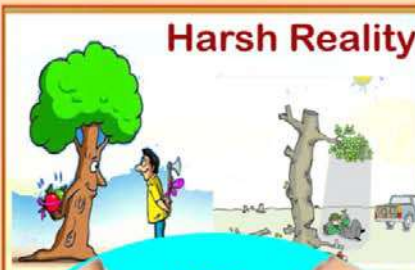


Suresh Suresh, mygov\_163730815296401561 (CID No. 124926951 )



Priya gagare, mygov\_163769107496337441 (CID No. 124964041 )

# Weather & Climate



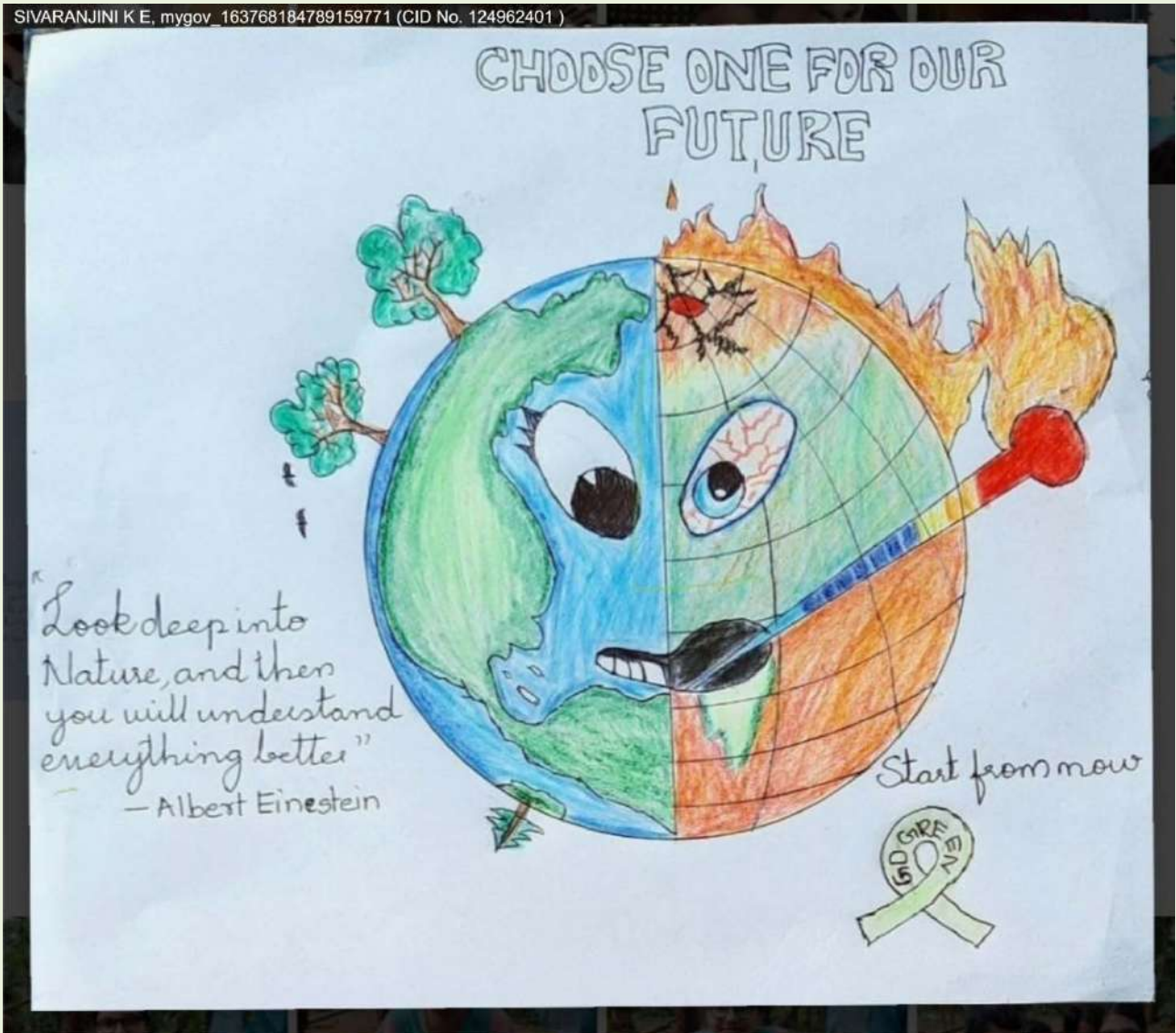
*Our Precaution will Save the Future Generation*

ShubhrajyotiSengupta, mygov\_163645767293063881 (CID No. 124866351 )

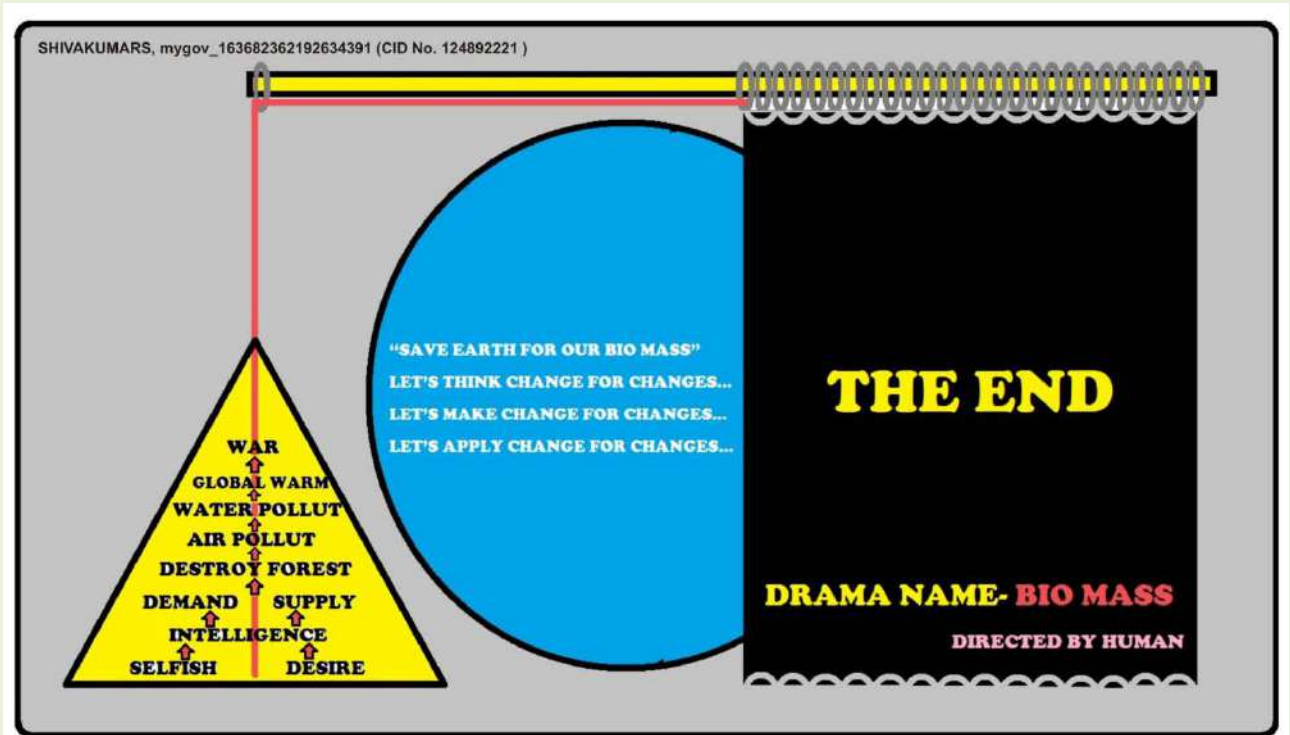
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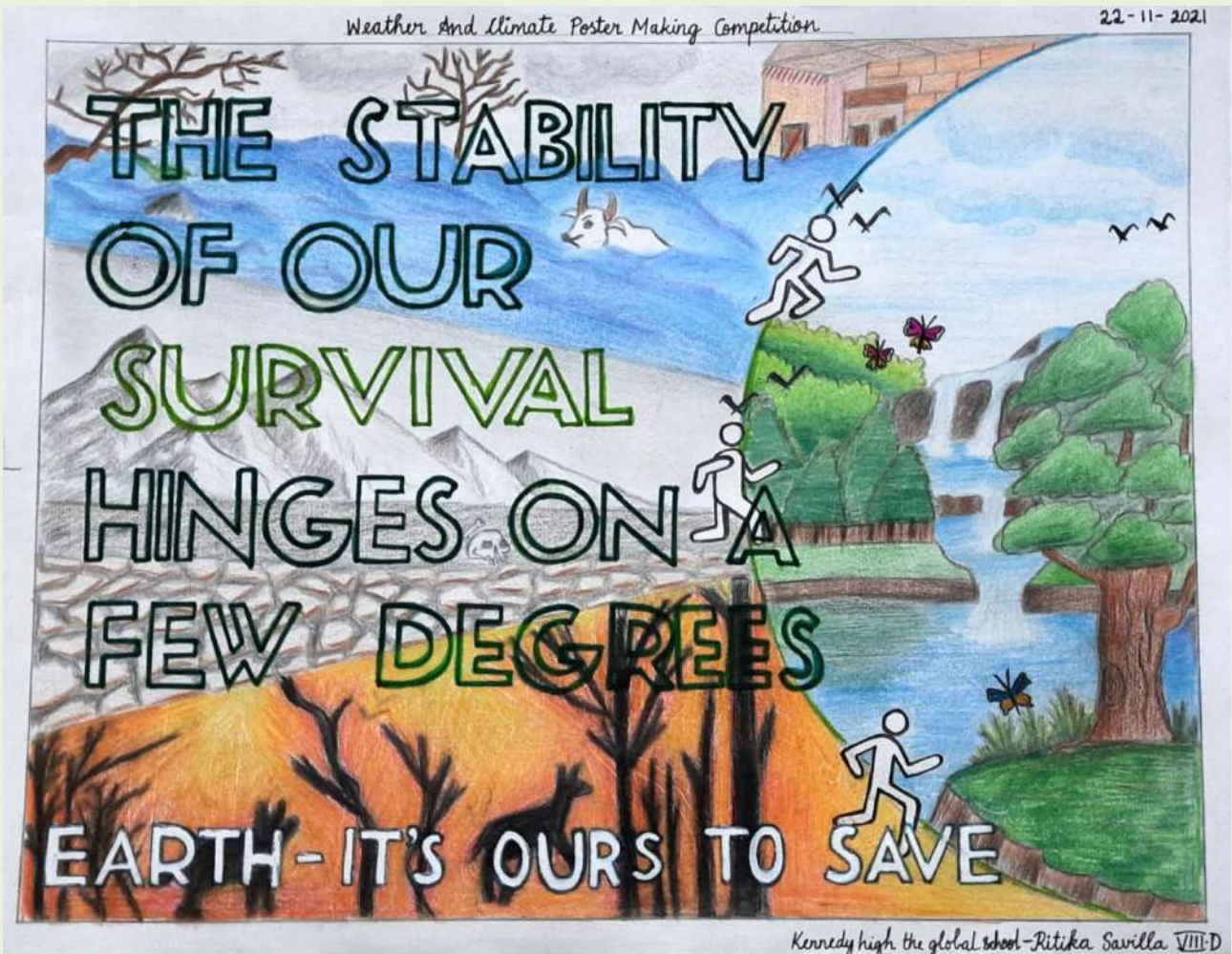
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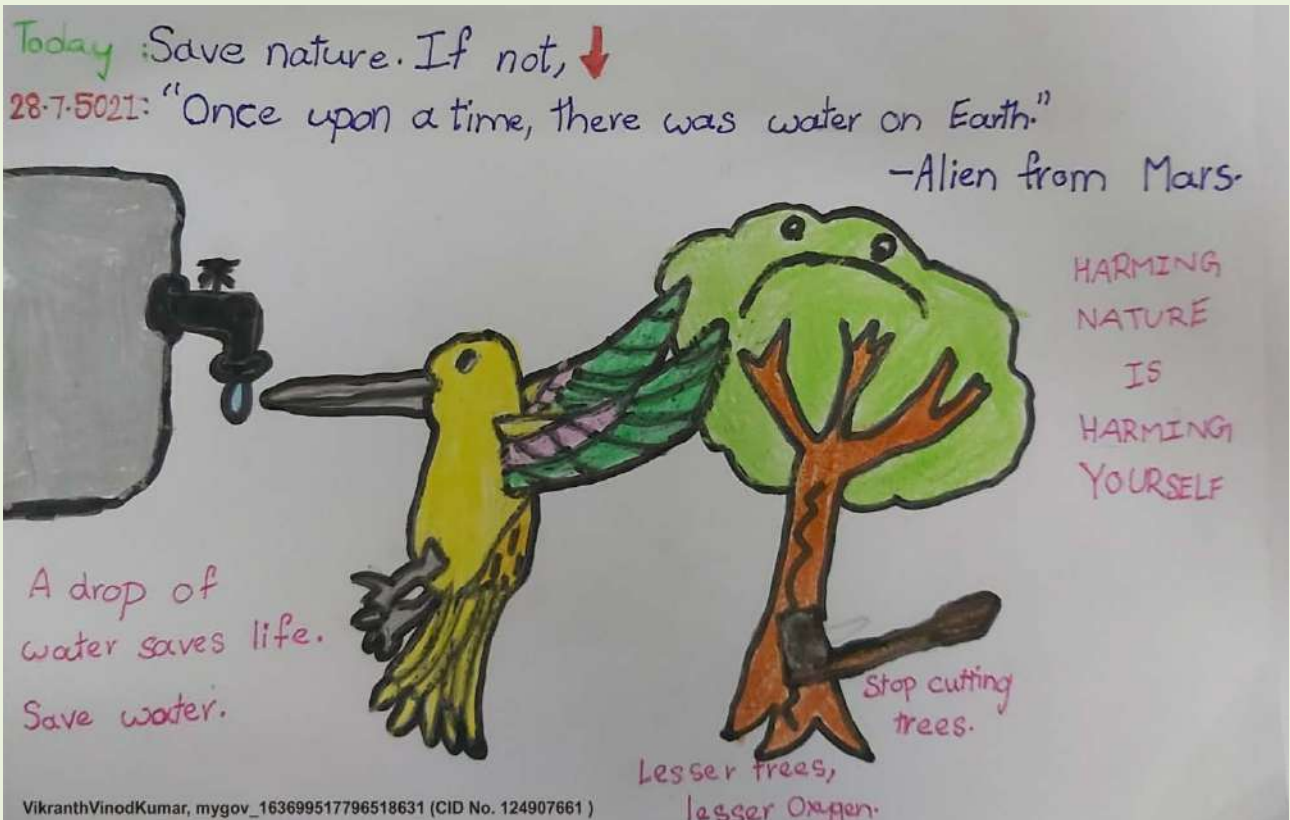
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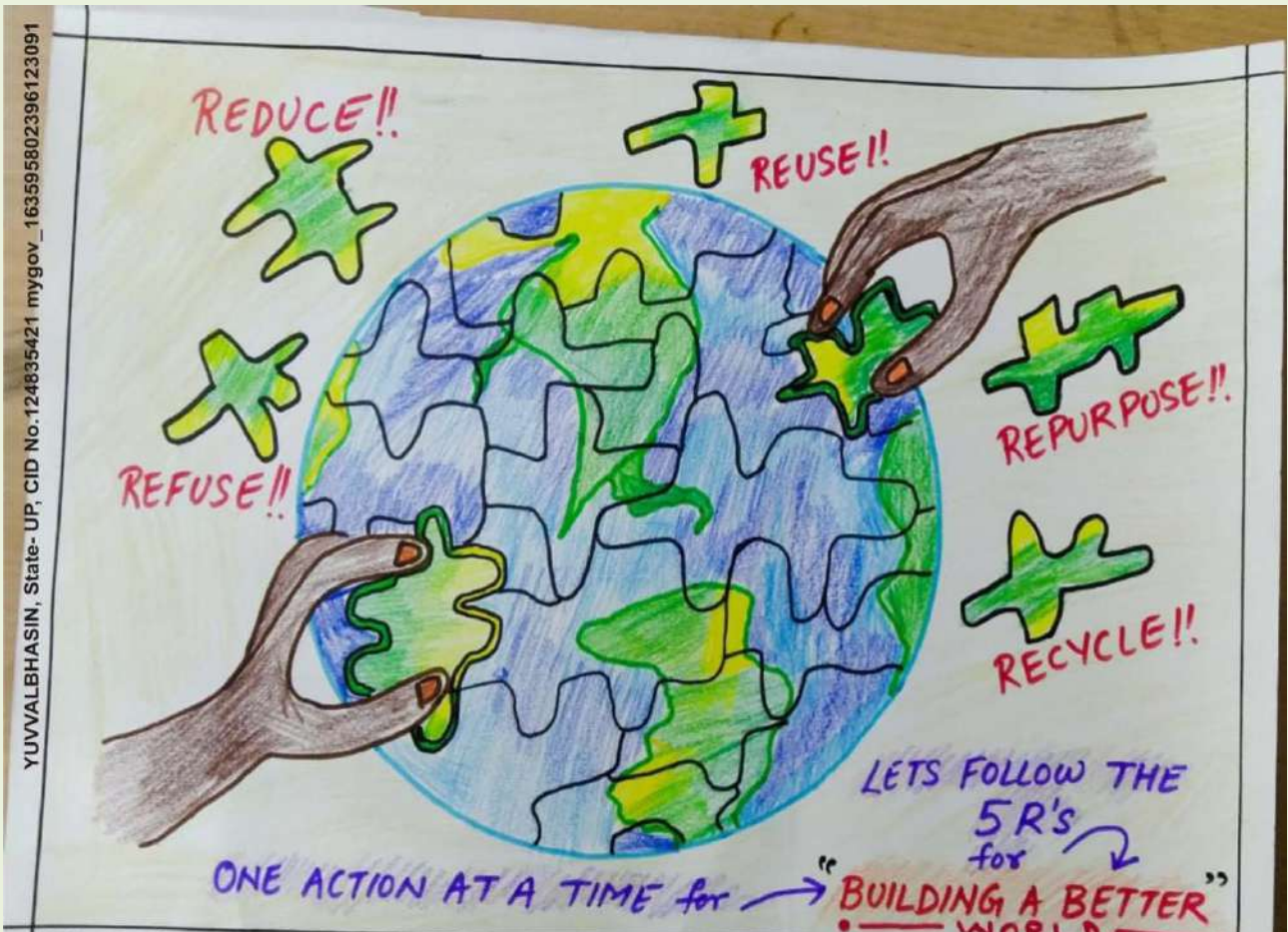
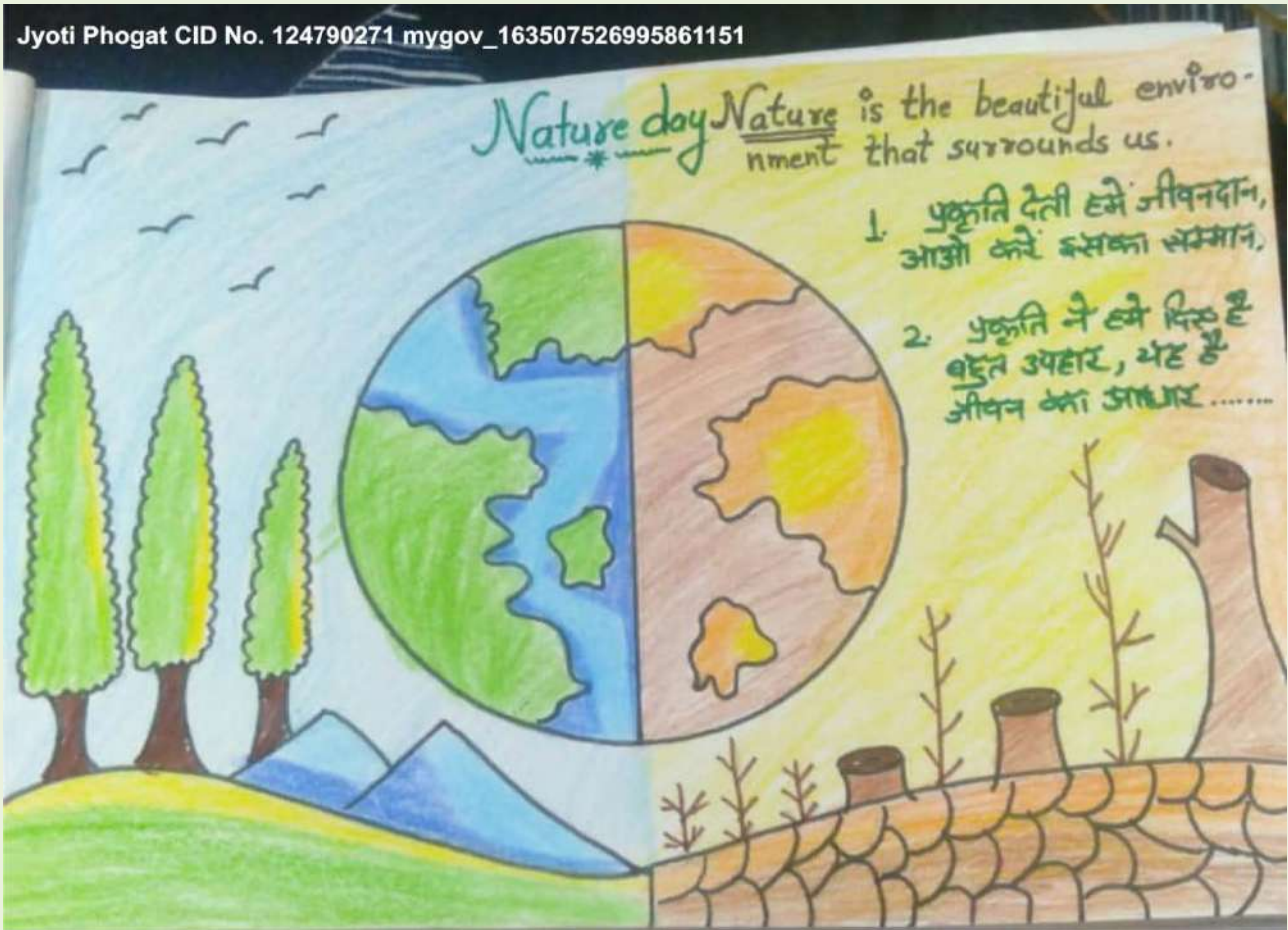




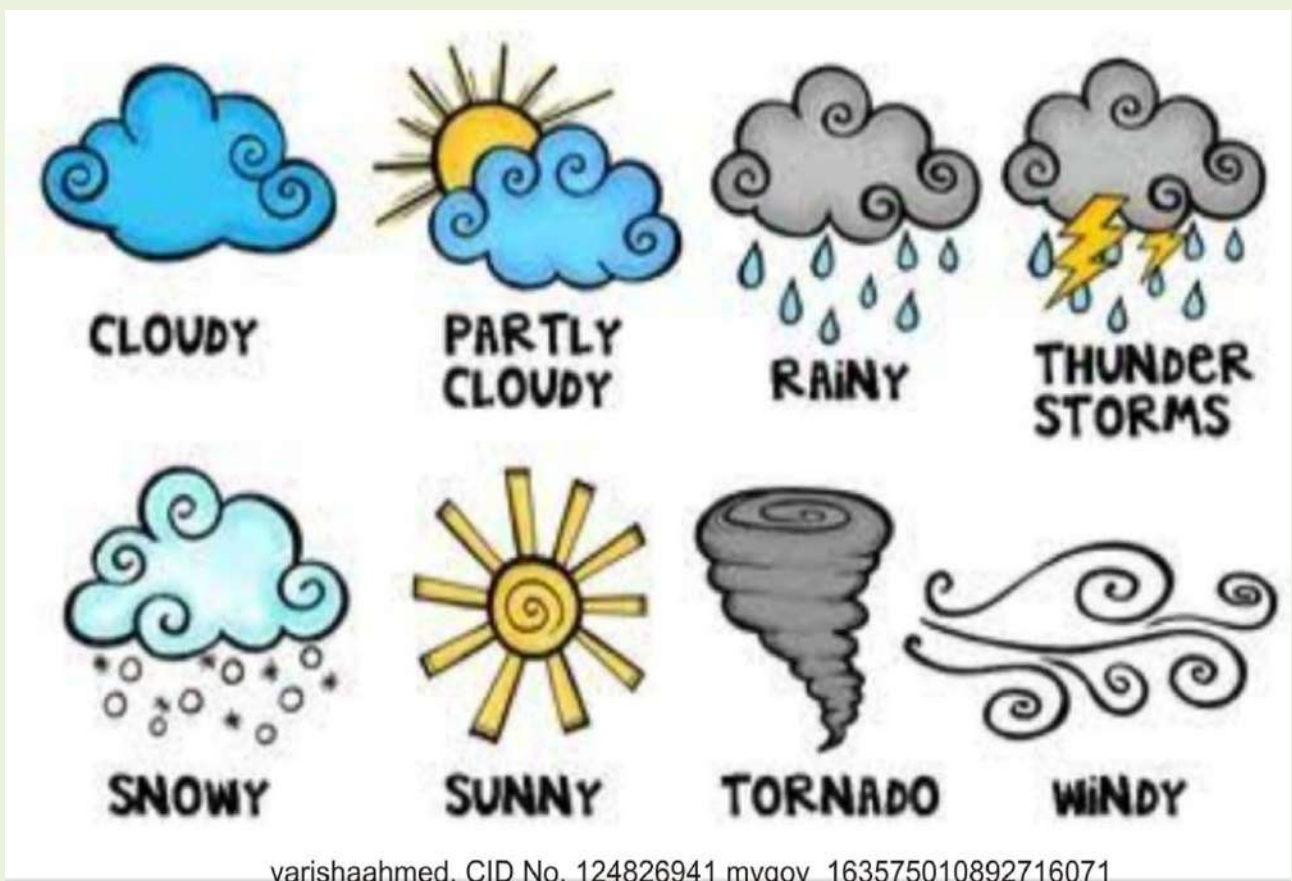
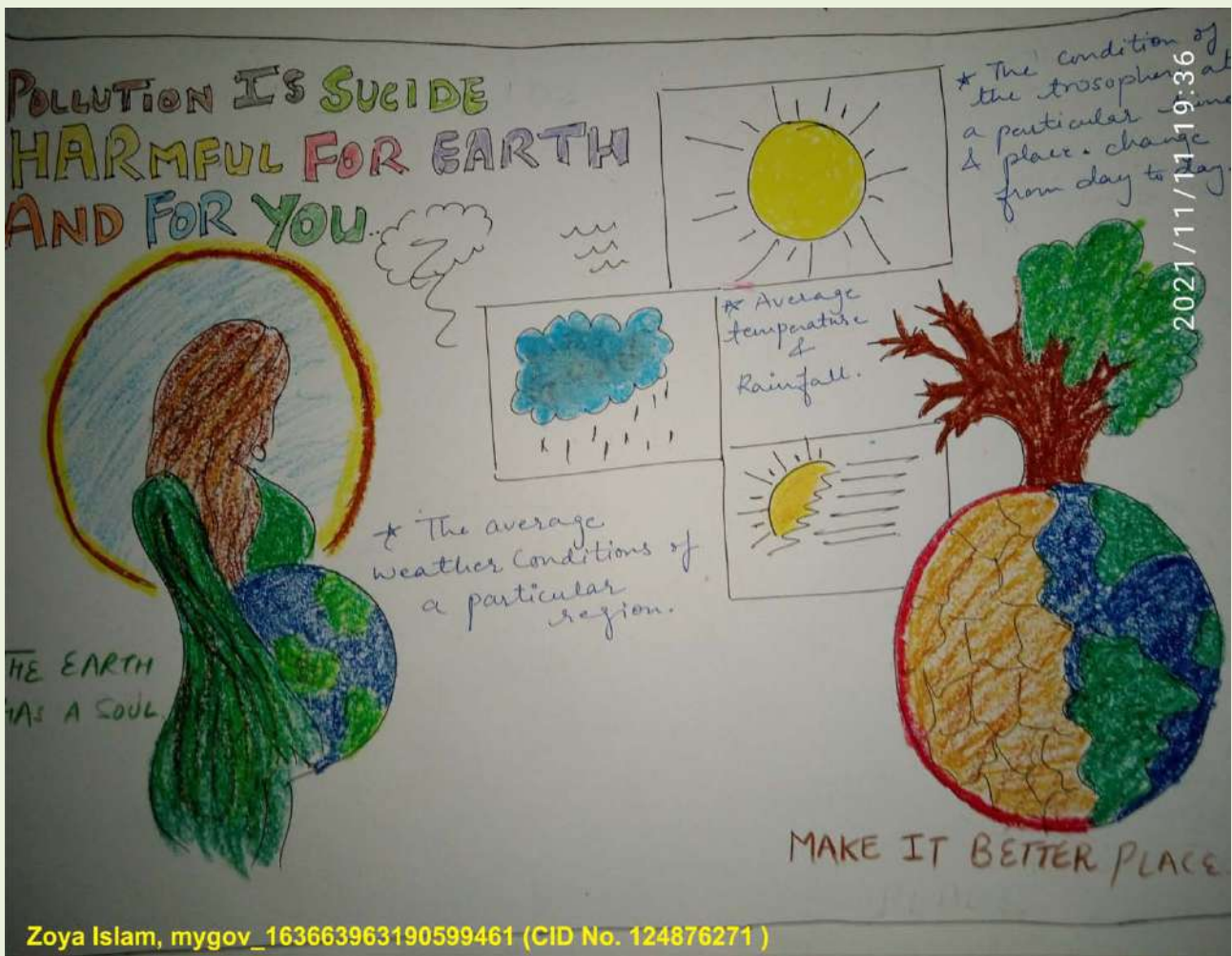
SrivaniSavilla, mygov\_163759938290286691 (CID No. 124956361 )



Jyoti Phogat CID No. 124790271 mygov\_163507526995861151



YUVVALBHASIN, State- UP, CID No.124835421 mygov\_163595802396123091

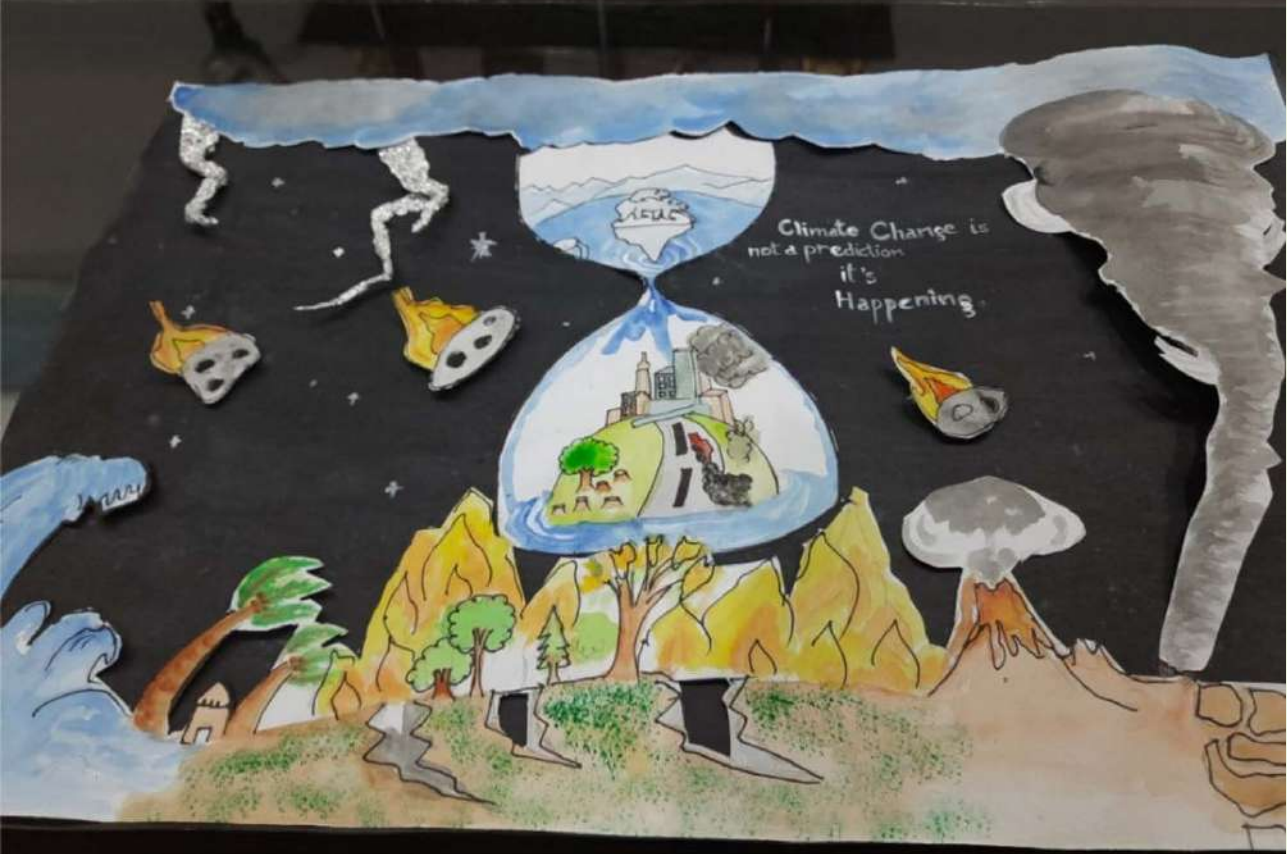


Vaishali Anil Jadhav, mygov\_163767553580298731 (CID No. 124961761 )



Name :- J. ANUSHKA, [ 8<sup>th</sup> ], st. Therese convent High School,  
Add :- B/402, Om-Anand CHS, Tilak Nagar, Dombivli (E)-Mumbai, [ 8356909889 ]

alisha kashyap, mygov\_163760298179741011 (CID No. 124956791 )





75 आजादी का अमृत महोत्सव

## Prescription on Earth

**Disease: Climate Change**

**Cause:**  
Deforestation  
Pollution

**Effect:**  
Global Warming  
Adverse Weather

**Treatment:**  
Reduce Pollution  
Reduce Plastic

**Precaution:**  
Increase Plantation  
Recycle & Reuse

**Weather & Climate**

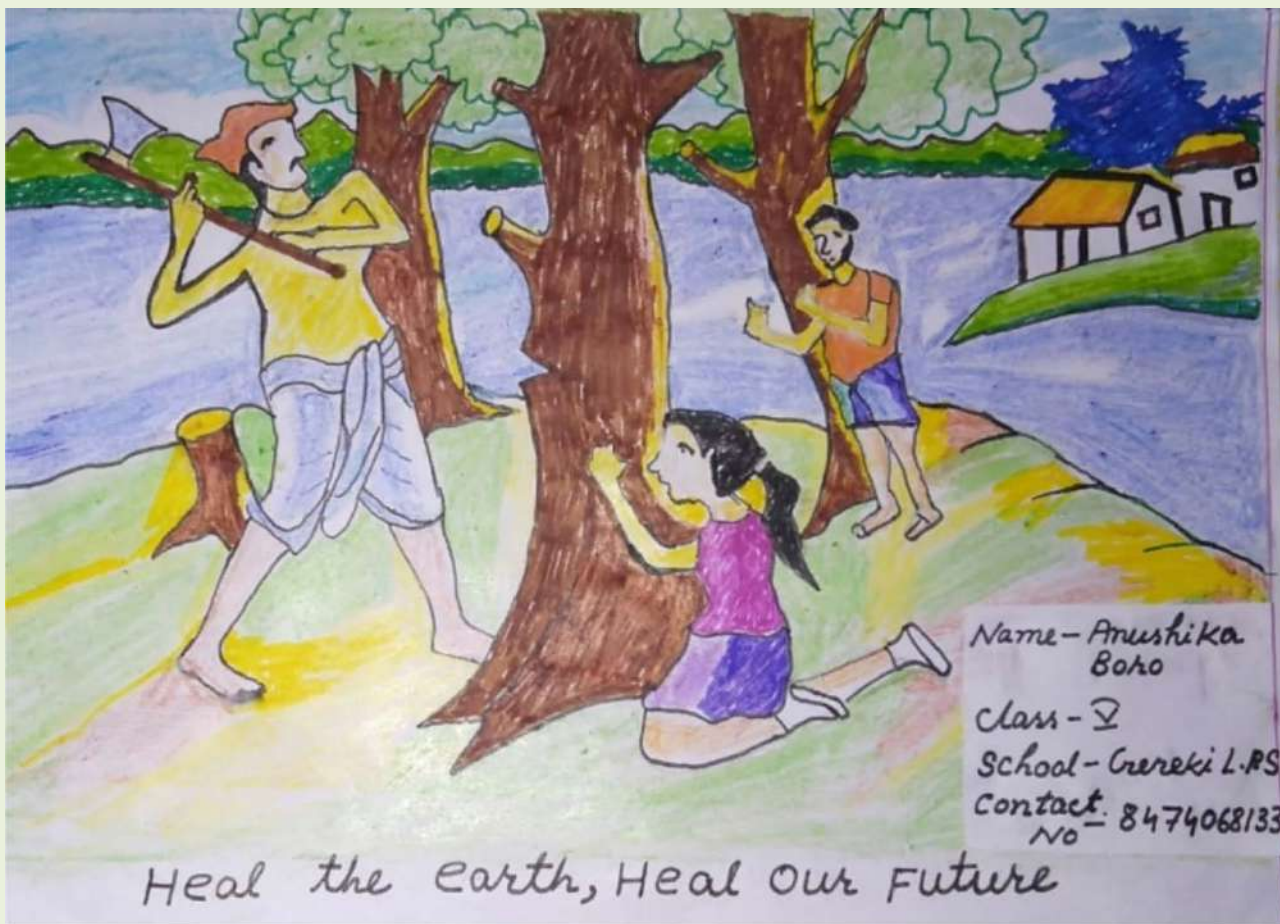
**Precaution is Better than Prevention**



Susmita Sabui CID No.124789311 mygov\_163506655676954821



Sakshi Rana, mygov 163672196796456501 (CID No. 124880461 )



Lalita nath daimari, mygov\_163765478875444781 (CID No. 124959711)



Sweta Danane, mygov\_163745571796313051 (CID No. 124941541 )



S Eric Eugene, mygov\_163756731896646251 (CID No. 124950981 )

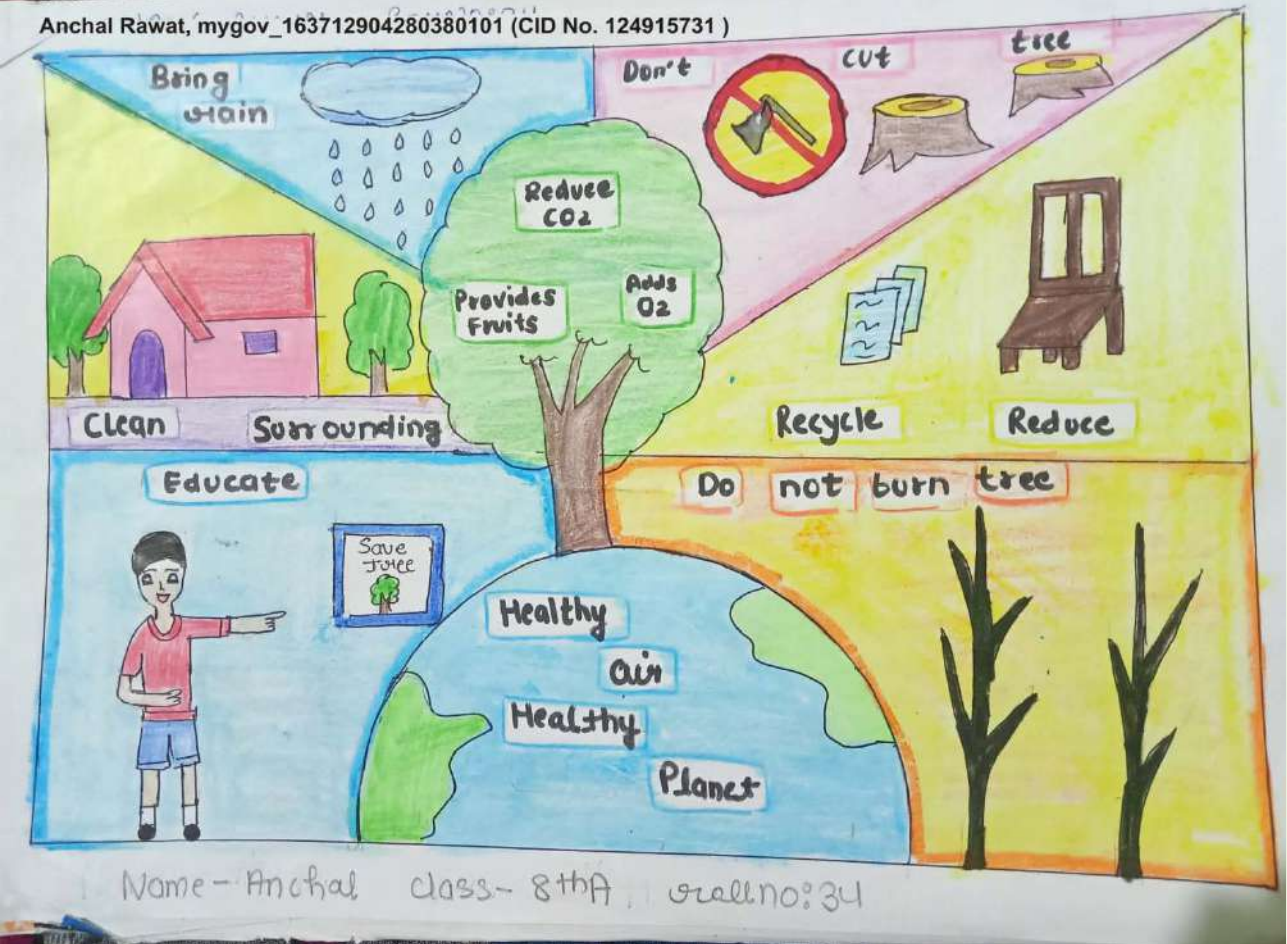




Souvik Debnath, mygov\_163769133596618301 (CID No. 124964141)



Anchal Rawat, mygov\_163712904280380101 (CID No. 124915731)

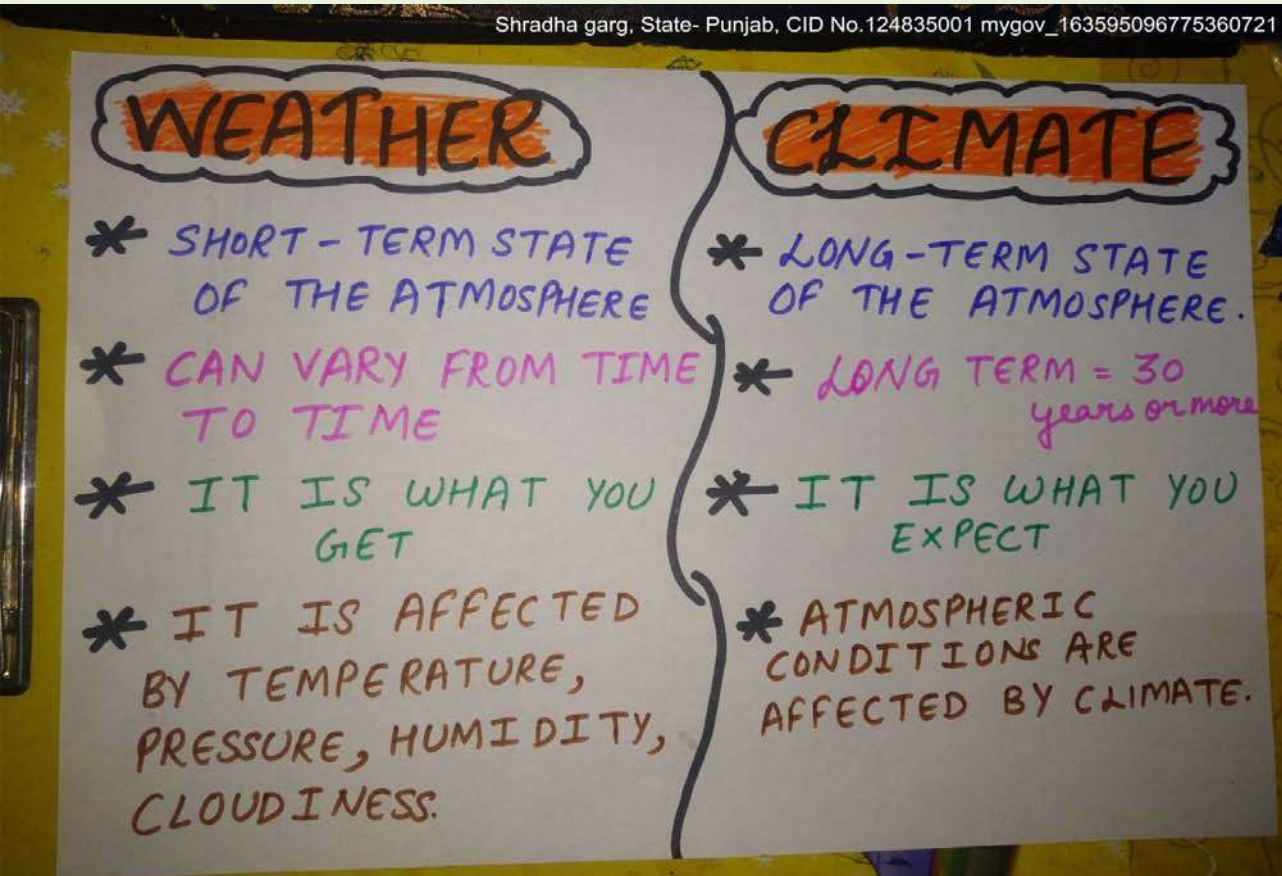




BhanushreeNN, mygov\_163768885196710201 (CID No. 124963561)



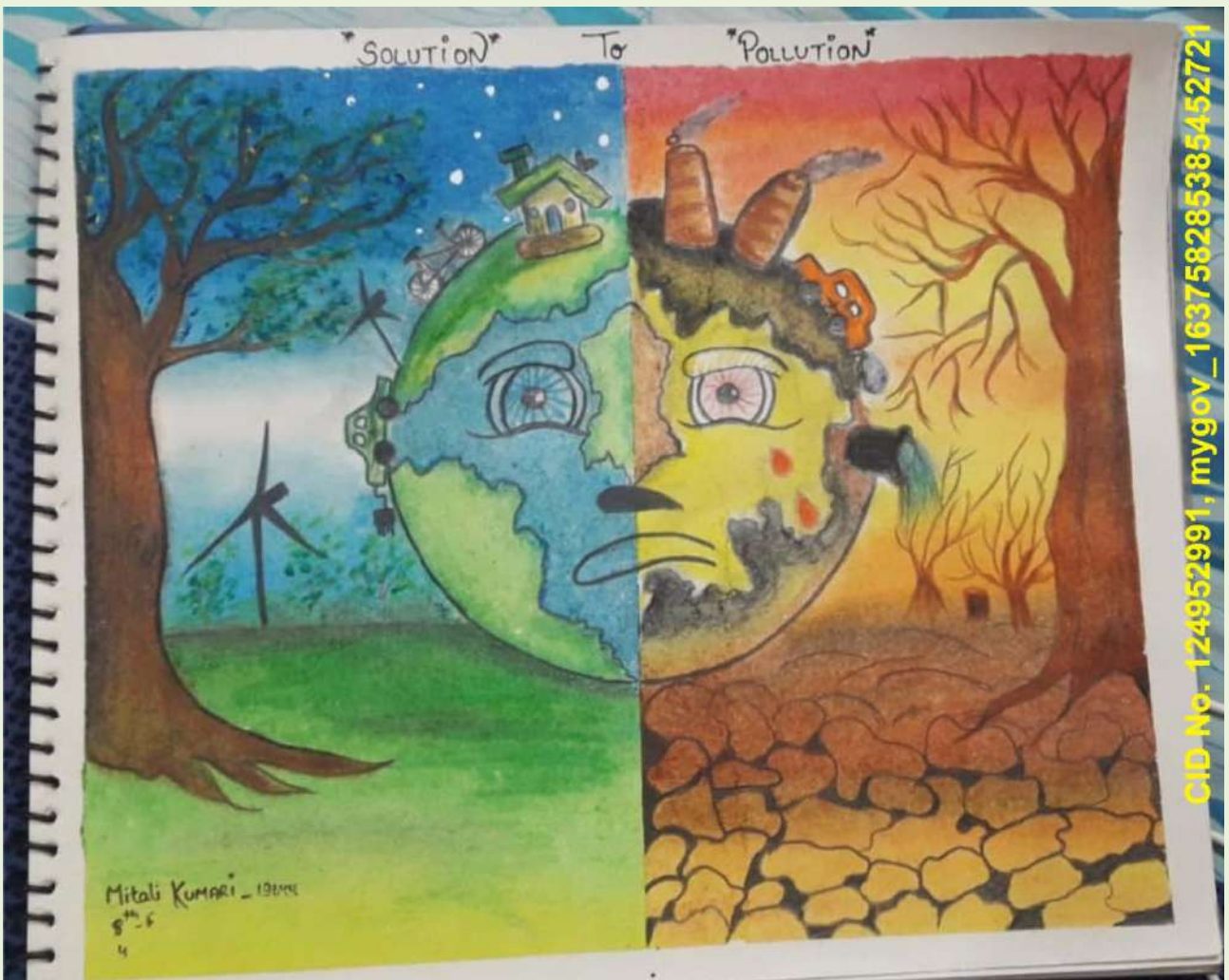
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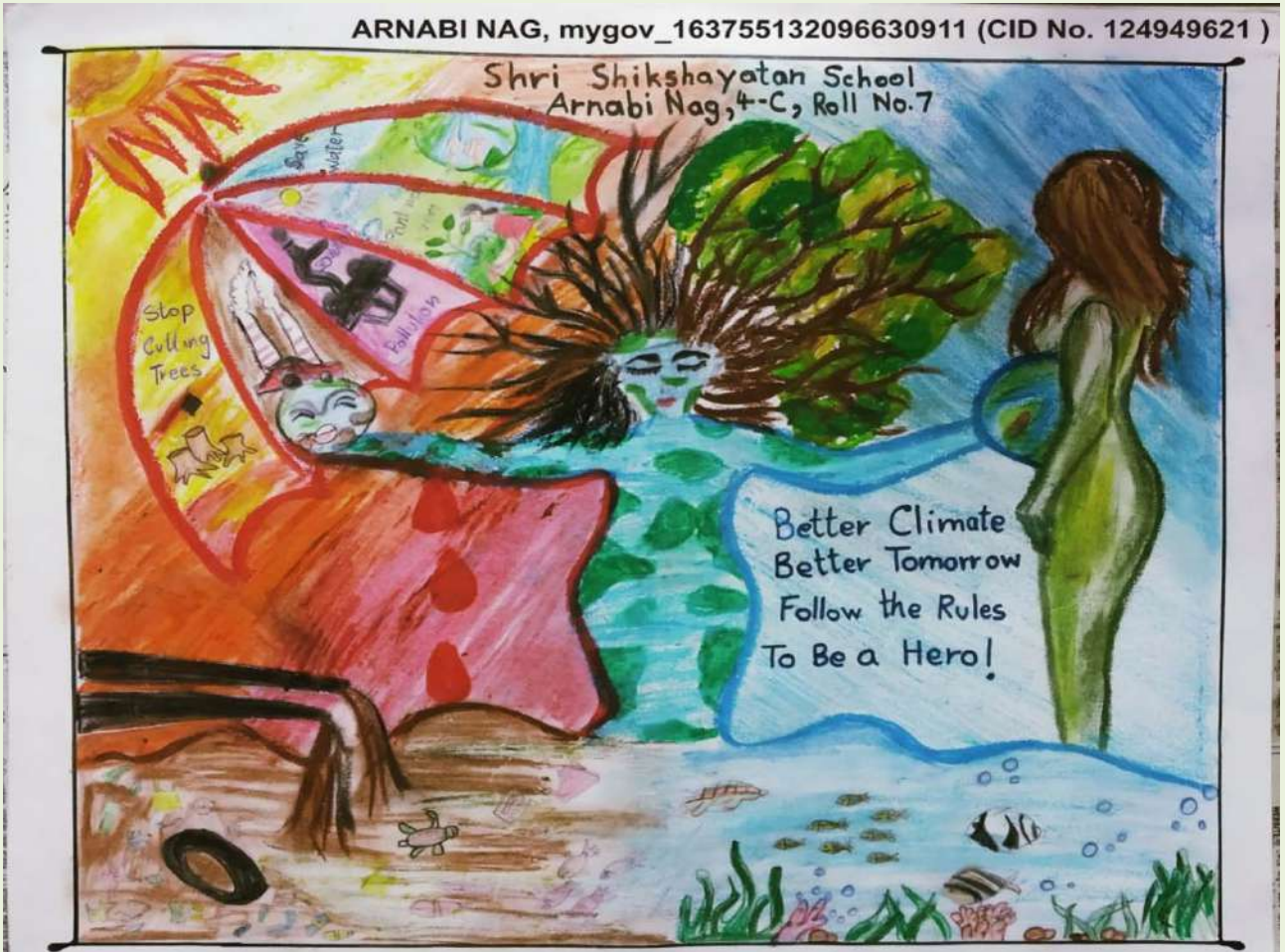


Riti Chahal, mygov\_163748224296627301 (CID No. 124943961 )



HarikaRevelli, mygov\_163768657496706501 (CID No. 124963241 )





RAJESH MAHATO, CID No.124811421 mygov\_16354733371212627

laxmi prasad boda, State- Andra Pradesh, CID No.124798831 mygov\_1635221418590055

### Weather & Climate Awareness Poster

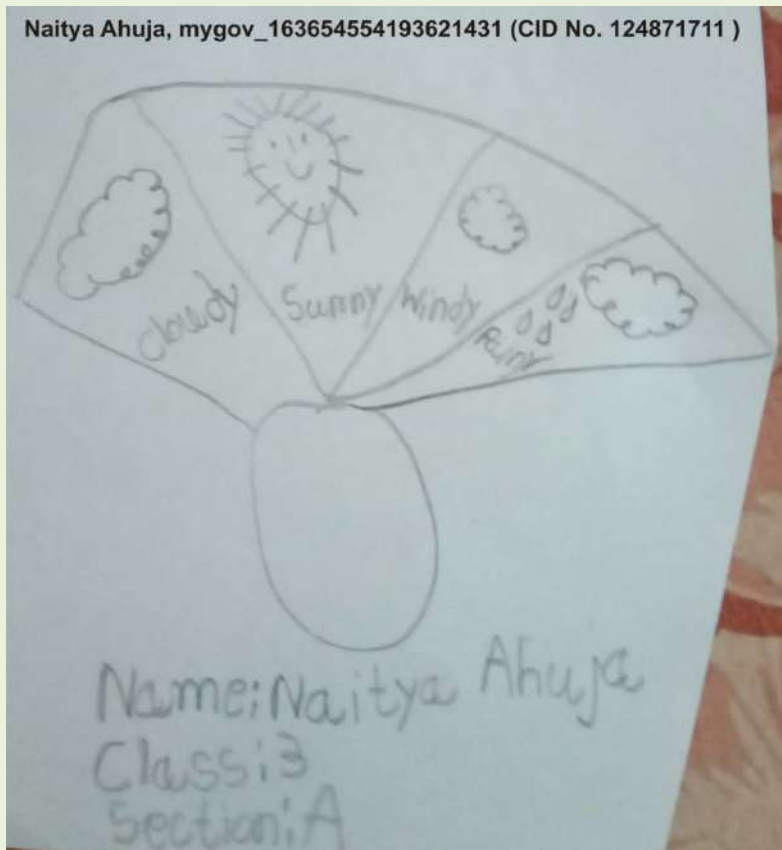
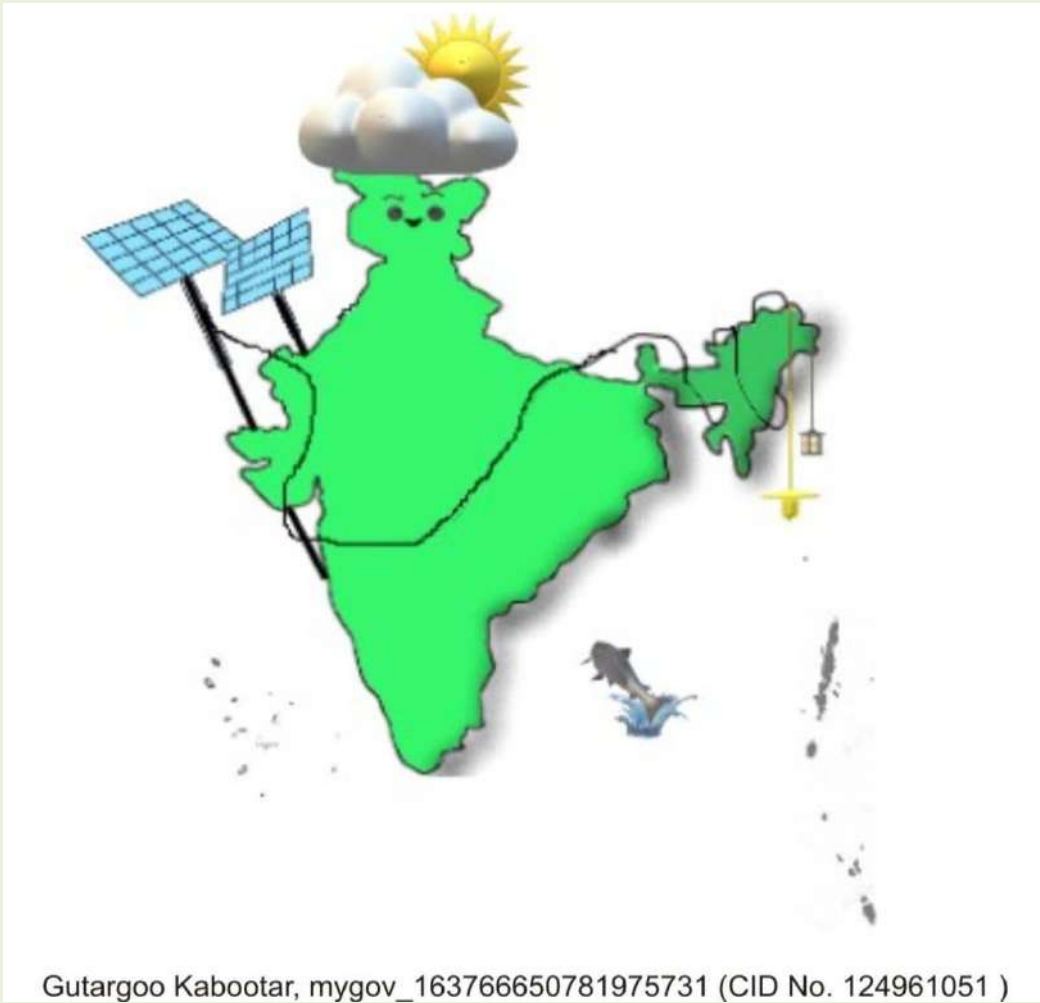


Go green - Stop global warming. Go Green to Save Earth from warming.

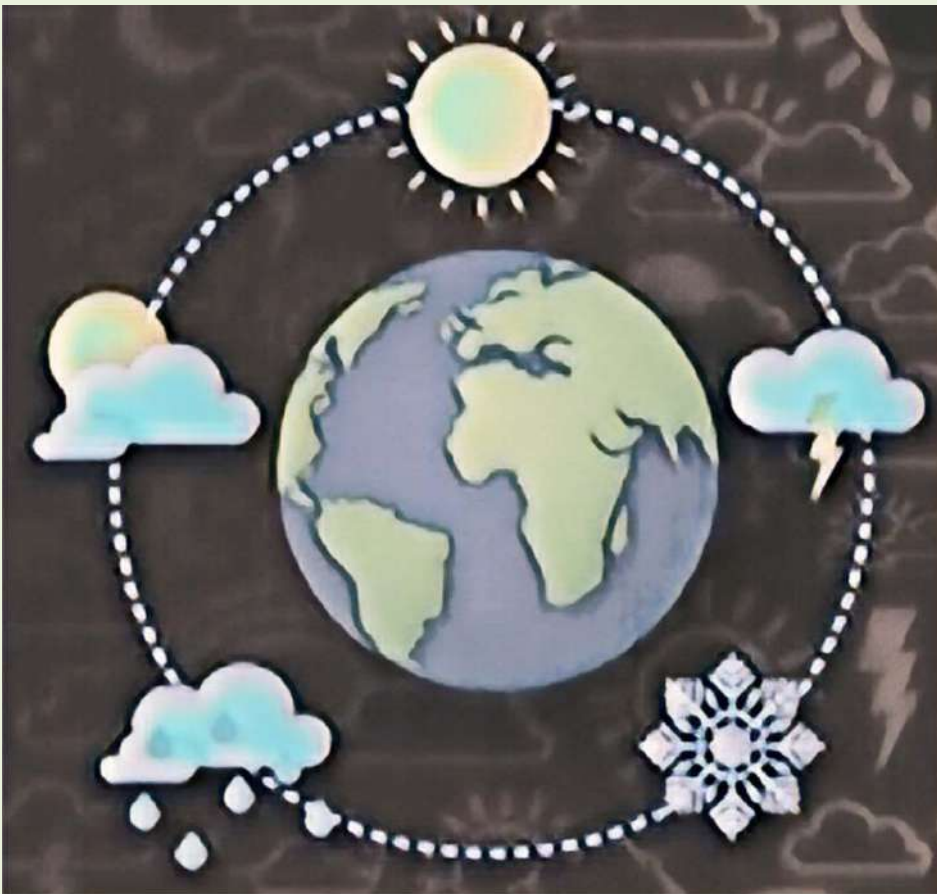


Kishanshah, mygov\_163712754596542421 (CID No. 124915491 )





RAJESH MAHATO, CID No. 124798211 mygov\_16351870541212627



RAJESH MAHATO, CID No.124798101 mygov\_16351860891212627



Suniti Tyagi, mygov\_16368290031222985 (CID No. 124892631 )



pranjal, mygov\_163747545081524761 (CID No. 124942961 )

IT'S GETTING HOTTER.

# Stop global warming.

*Global warming is heating the earth; Adopting green lifestyle is definitely worth*

Naresh M, mygov\_163749151989197041 (CID No. 124944971 )

**CO<sub>2</sub> exit** - **Dead tree** - **Water pollution** = **Global warming**

**Climate change**

**Go green & save the earth**

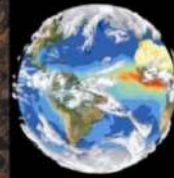
**Use wind & solar energy** - **Save tree & go green** - **Go Green & Save the earth**

Sudip roy, mygov\_163748523166149601 (CID No. 124944341 )



Zaheer Ahmed, mygov\_163748649089817721 (CID No. 124944361)

# WEATHER AND CLIMATE



## Weather vs. Climate

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• <b>Weather</b></li> <li>- Daily changes in the physical conditions of the atmosphere (moisture, temp, pressure, wind)</li> <li>- Controlled by solar energy which controls winds which push moisture &amp; temp around planet</li> </ul> | <ul style="list-style-type: none"> <li>• <b>Climate</b></li> <li>- Long term patterns of weather in a particular area.</li> <li>- Undergo cyclic changes over decades, centuries, and millenia</li> </ul> |
|---|---|

YOU'LL DIE  
OF OLD AGE  
YOUR KIDS  
WILL DIE OF  
CLIMATE  
CHANGE

CLIMATE  
REVOLUTION  
STOP  
POLLUTION



Different Weathers

DAILY CHECK-IN



# How are you feeling today?



Our feelings can be like the weather. They can change at any time. Think about how you're feeling right now, and what kind of weather it relates to. Controlling pollution and stopping deforestation could help keep your mood always happy, excited, confident and little confused or worried.



Shivam Dinesh Rathi, mygov\_163674921882665021 (CID No.124883171 )

WEATHER IS  
WHAT WE  
GET

CLIMATE IS  
WHAT WE  
EXPECT

*The less we do to  
Address climate  
Change now,*

*The more Regulation  
We will have in  
The future*



Fathima Nasri K A, mygov\_163619172695913901 (CID No. 124845301 )

# WEATHER AND CLIMATE

Weather reflects short-term conditions of the atmosphere while climate is the average daily weather for an extended period of time at a certain location



1. Use less energy. Most greenhouse gases are emitted by power plants, industry and traffic.
2. Produce clean energy.
3. Support good ideas.
4. Pull your money out of climate-damaging businesses.

- Save earth, it's worth more alive.
- Our planet, our home.
- We all need to live here. Save earth.
- Our planet is precious and only we can save it.



ARUN SANTHOSH V SEC, mygov\_163748621586060411 (CID No. 124944271 )

India Meteorological Department

पर्यावरण है जलवायु का आधार इसे बदलने से बचना होगा याद

Weather and climate change

Yogesh Roy, CID No. 124824741 mygov\_163569241890861917

Jahnvi Manjule mygov\_163500465780257091



LET'S DO IT TOGETHER

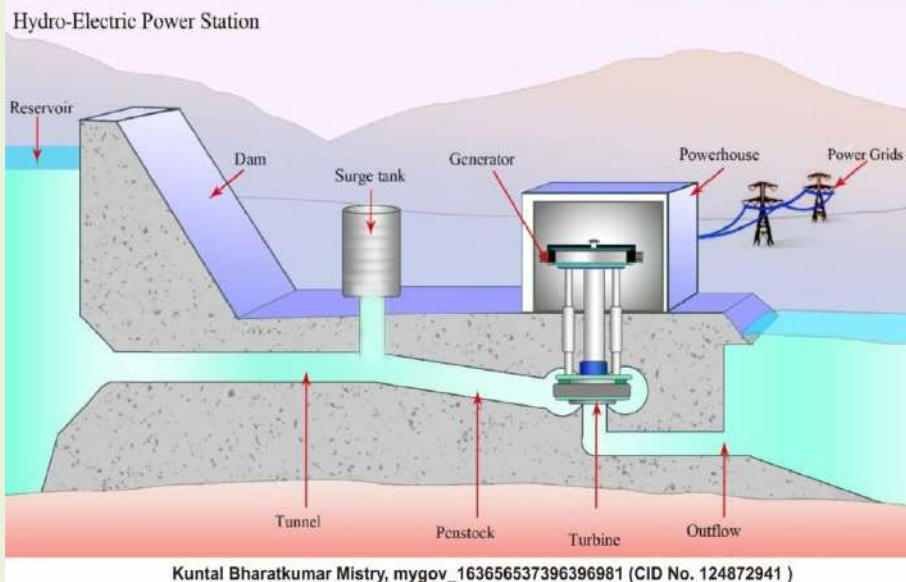
# STOP CLIMATE CHANGE

"We are the first generation to feel the effect of climate change and the last generation who can do something about it."

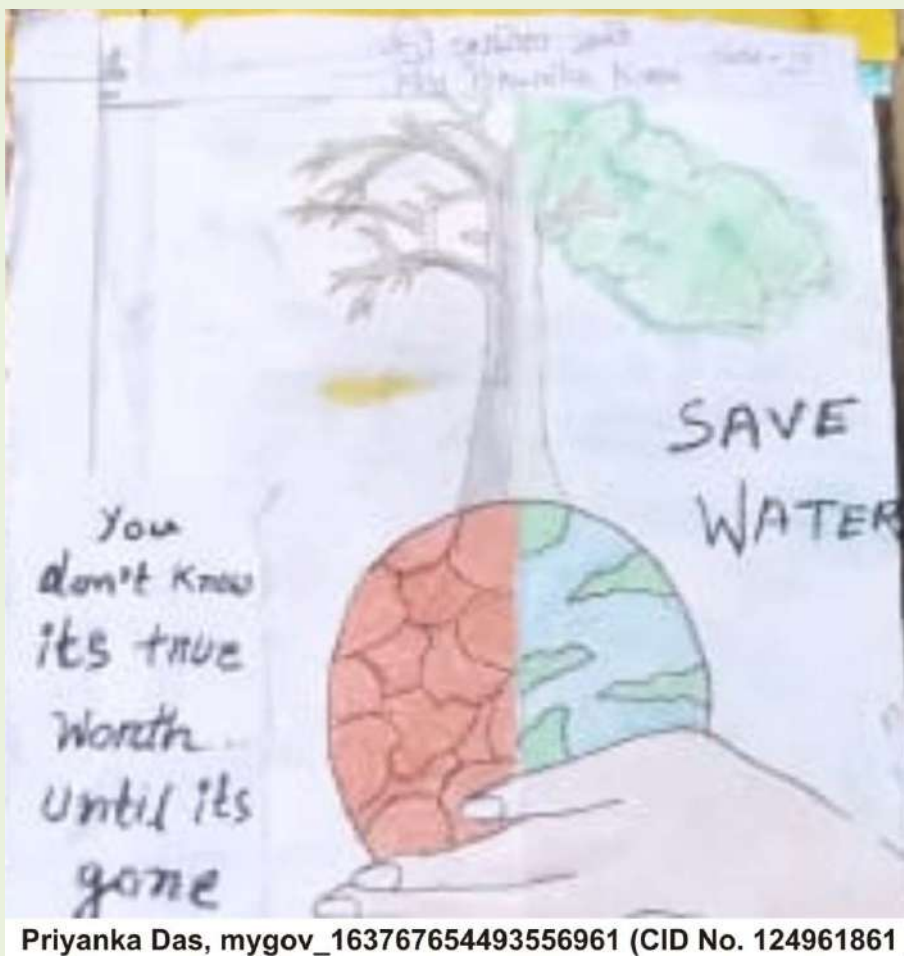


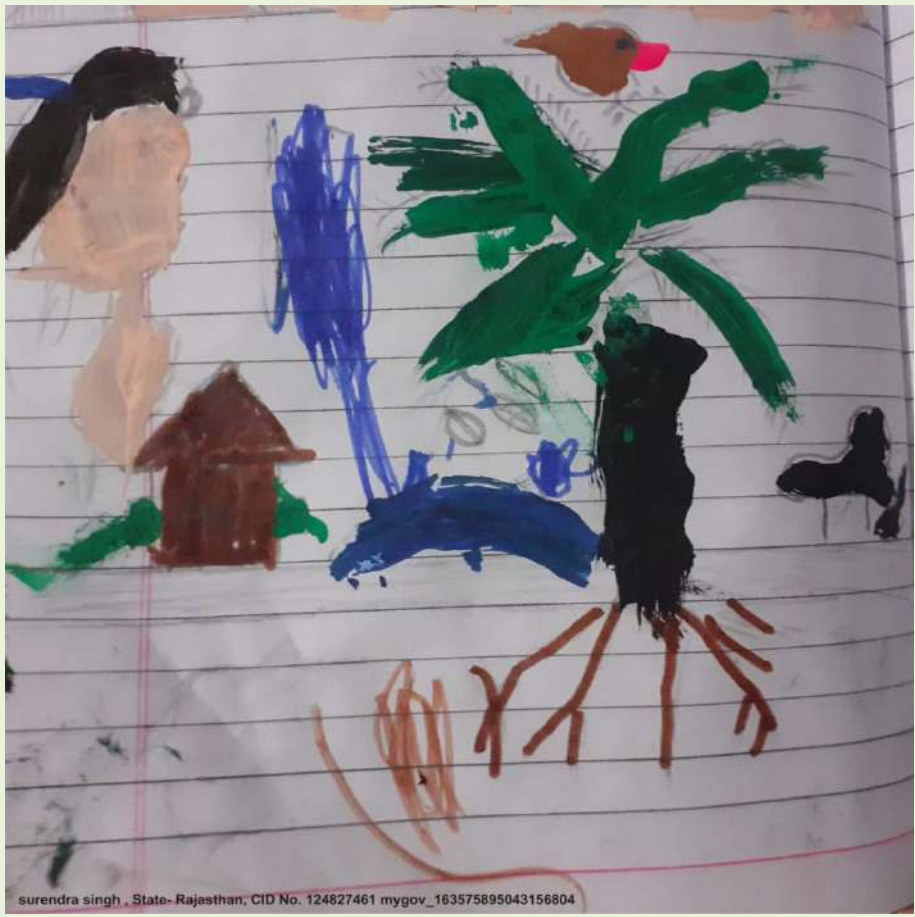
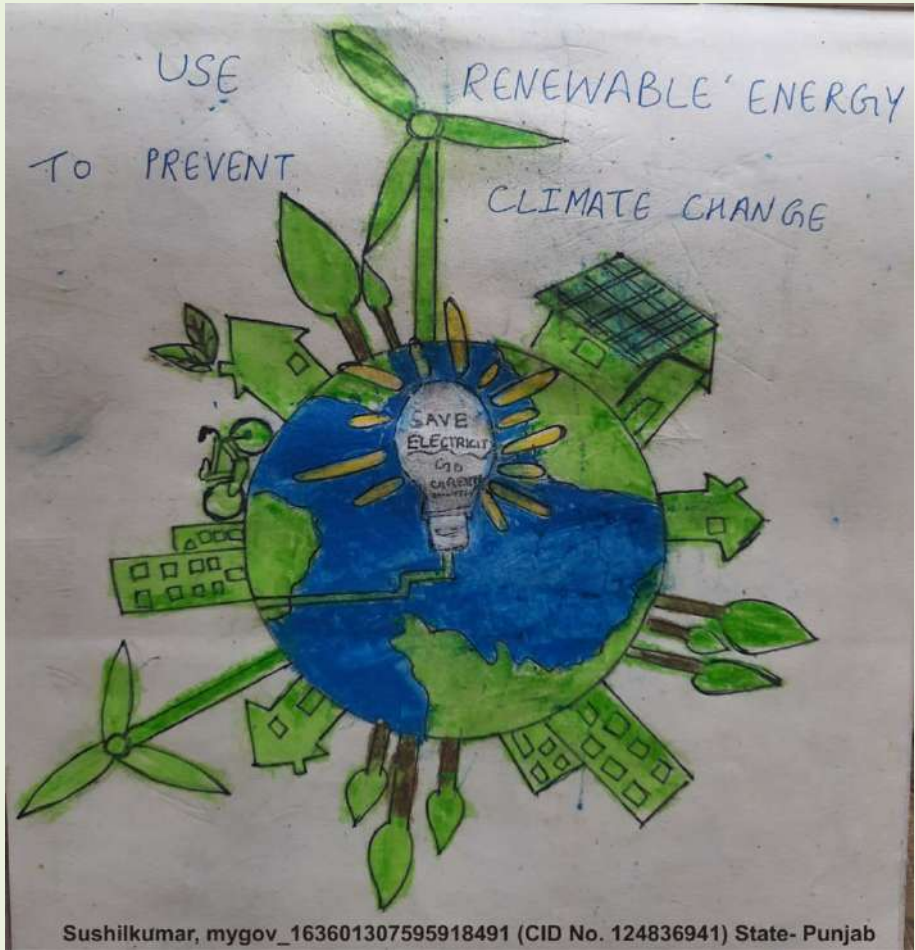
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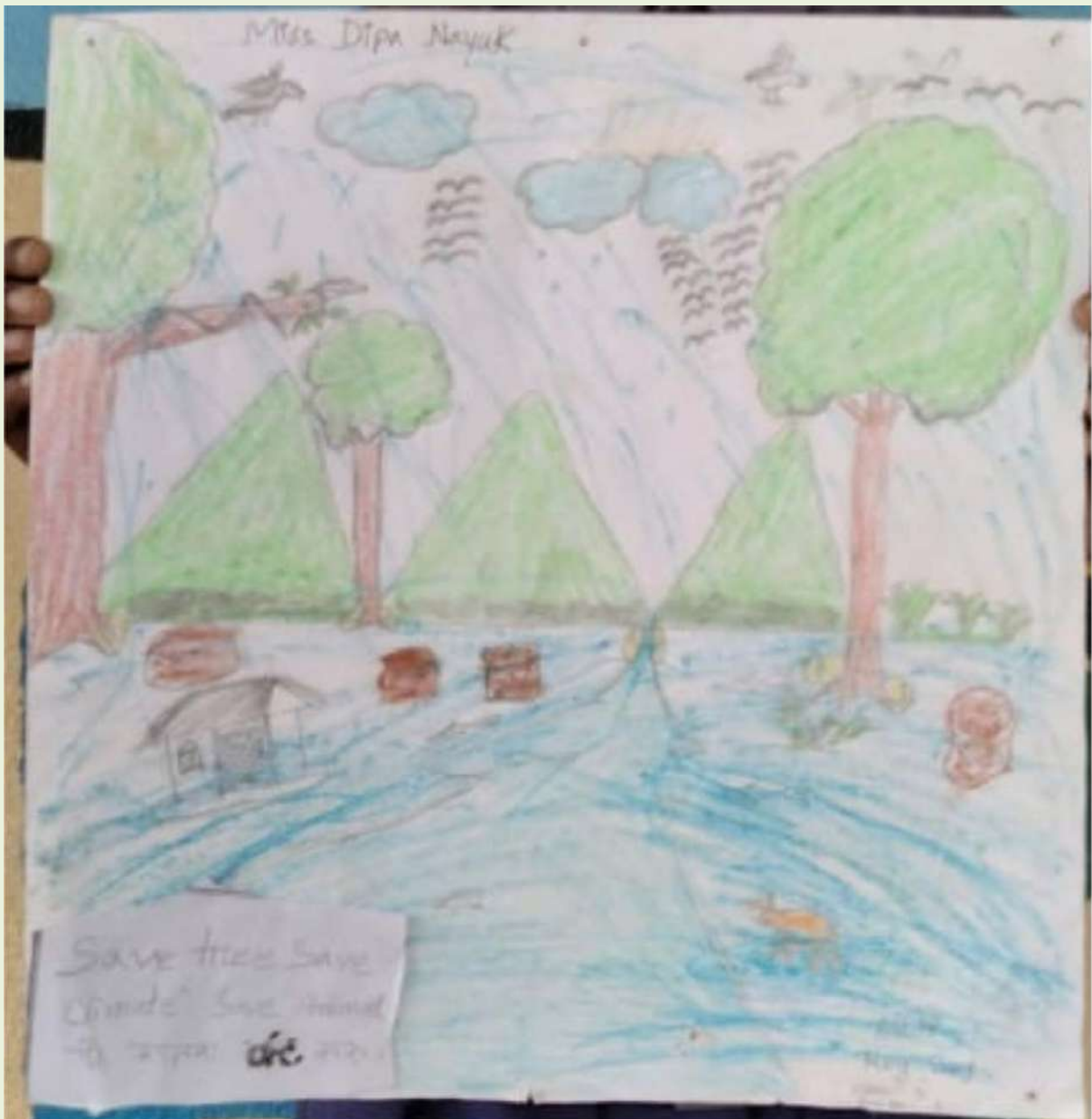




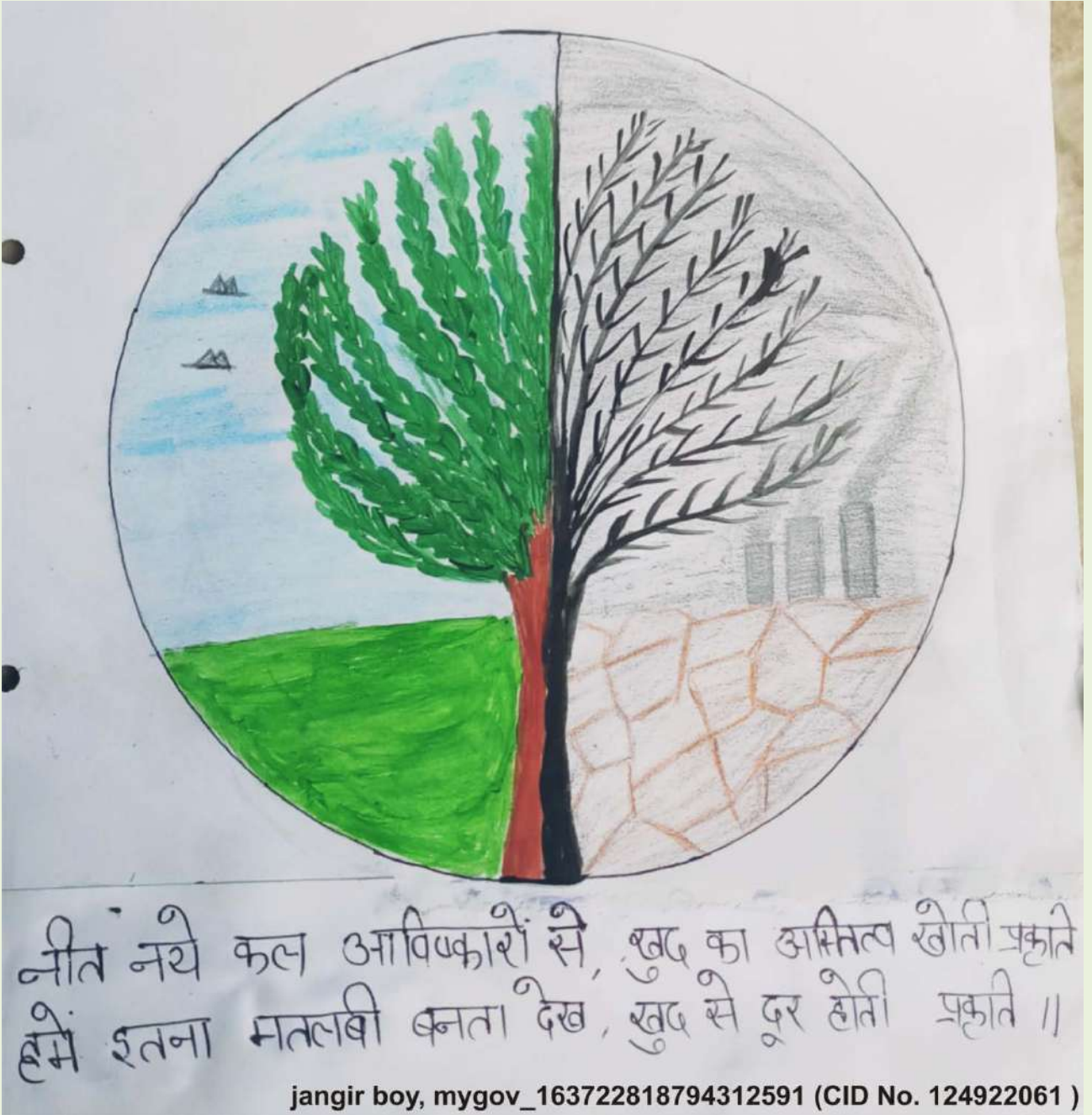
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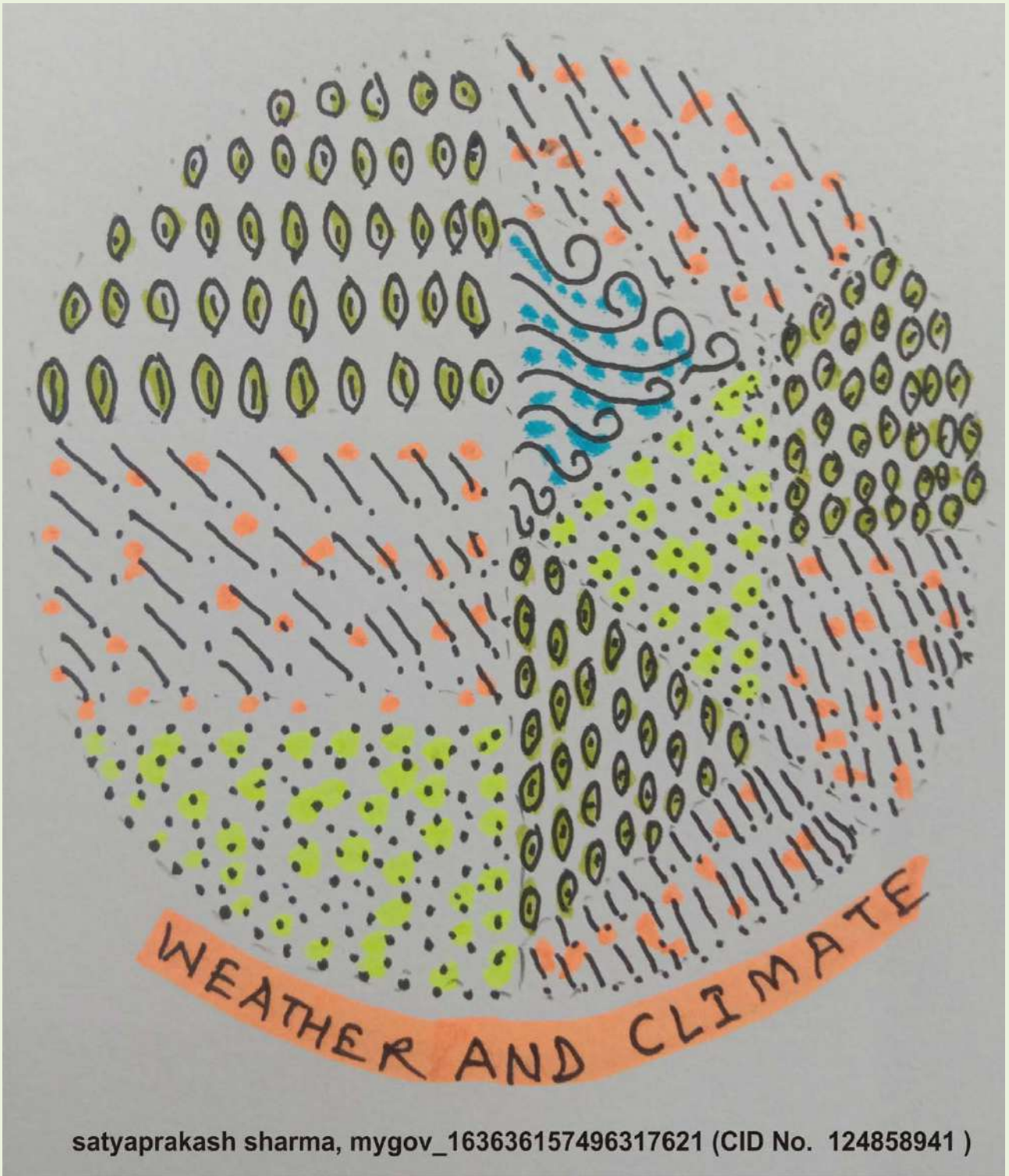






YourName Priyanka Das, mygov\_163767641993556961 (CID No. 124961841 )

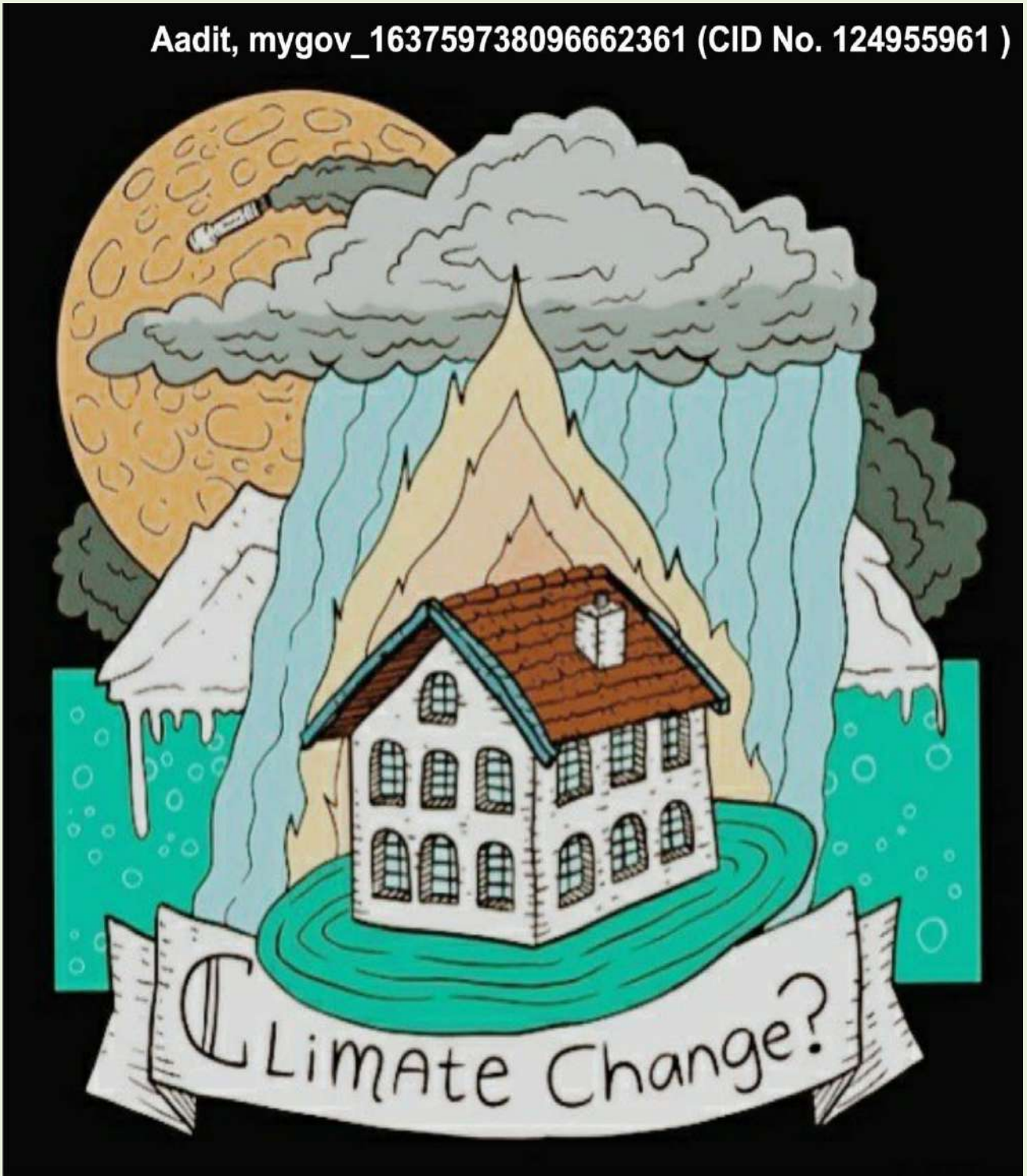






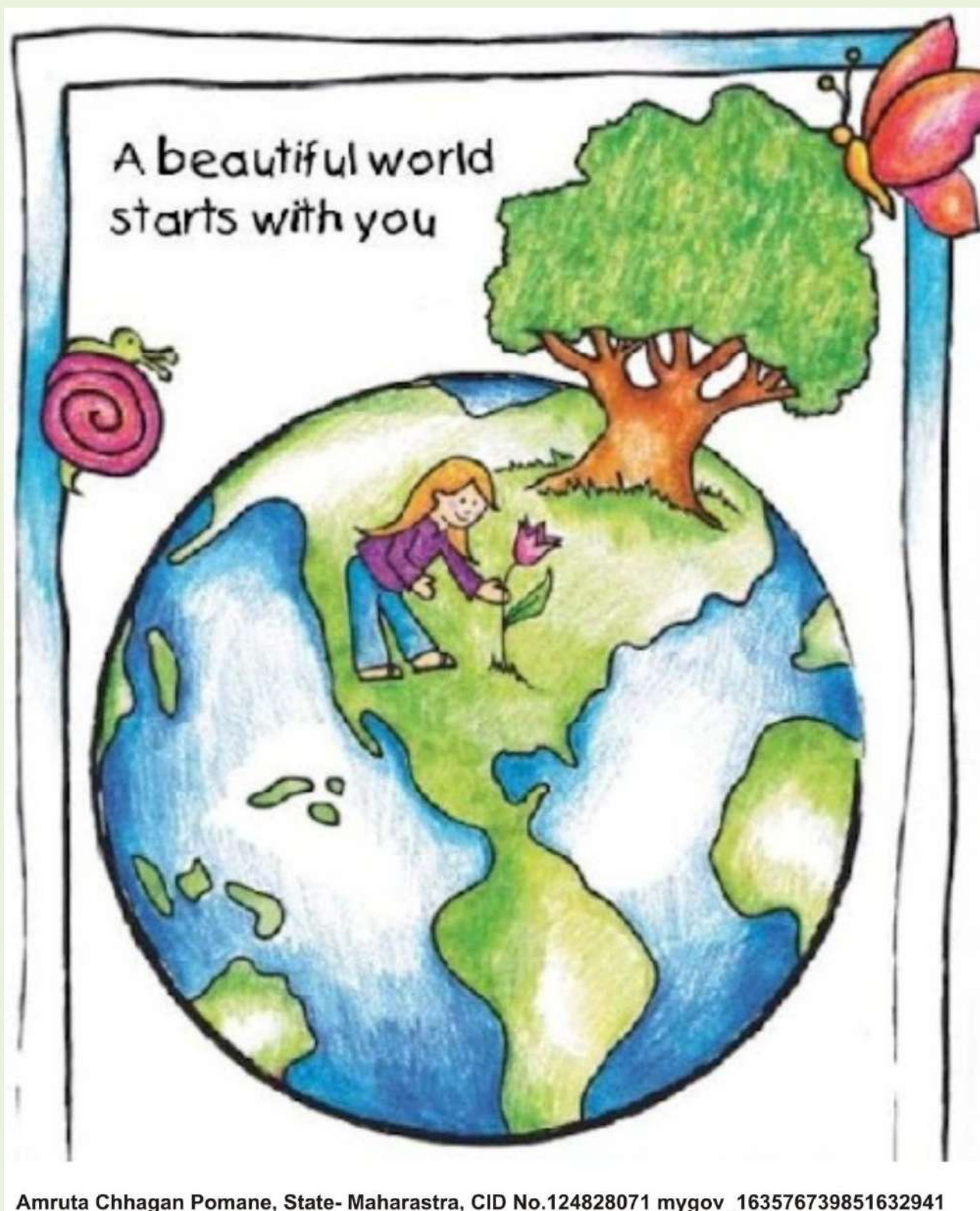
Yashika mygov\_163610208796348511 (CID No. 124839571 )

Aadit, mygov\_163759738096662361 (CID No. 124955961 )










Amruta Chhagan Pomane, State- Maharashtra, CID No.124828071 mygov\_163576739851632941

# CLIMATE VS WEATHER

**CLIMATE IS**  
What you  
**EXPECT.**

The **AVERAGE**  
Weather conditions  
of a particular  
Region.



**CLIMATE MAP**

**KEYWORDS:**

- Per year
- Annual
- Normal
- Typical
- Always
- Never
- Record lows
- Record highs
- Generally
- Extreme weather events from past
- Seasons

**WEATHER IS**  
What you  
**GET.**

The condition  
of the troposphere  
at a particular  
time and place.  
changes from  
**DAY TO DAY.**

**SUNNY** **WINDY** **CLOUDY**  
**SNOWY** **RAINY**

**KEY WORDS:**

- forecast
- daily
- cloudy
- foggy
- sunny
- today
- tomorrow
- yesterday
- recent
- current

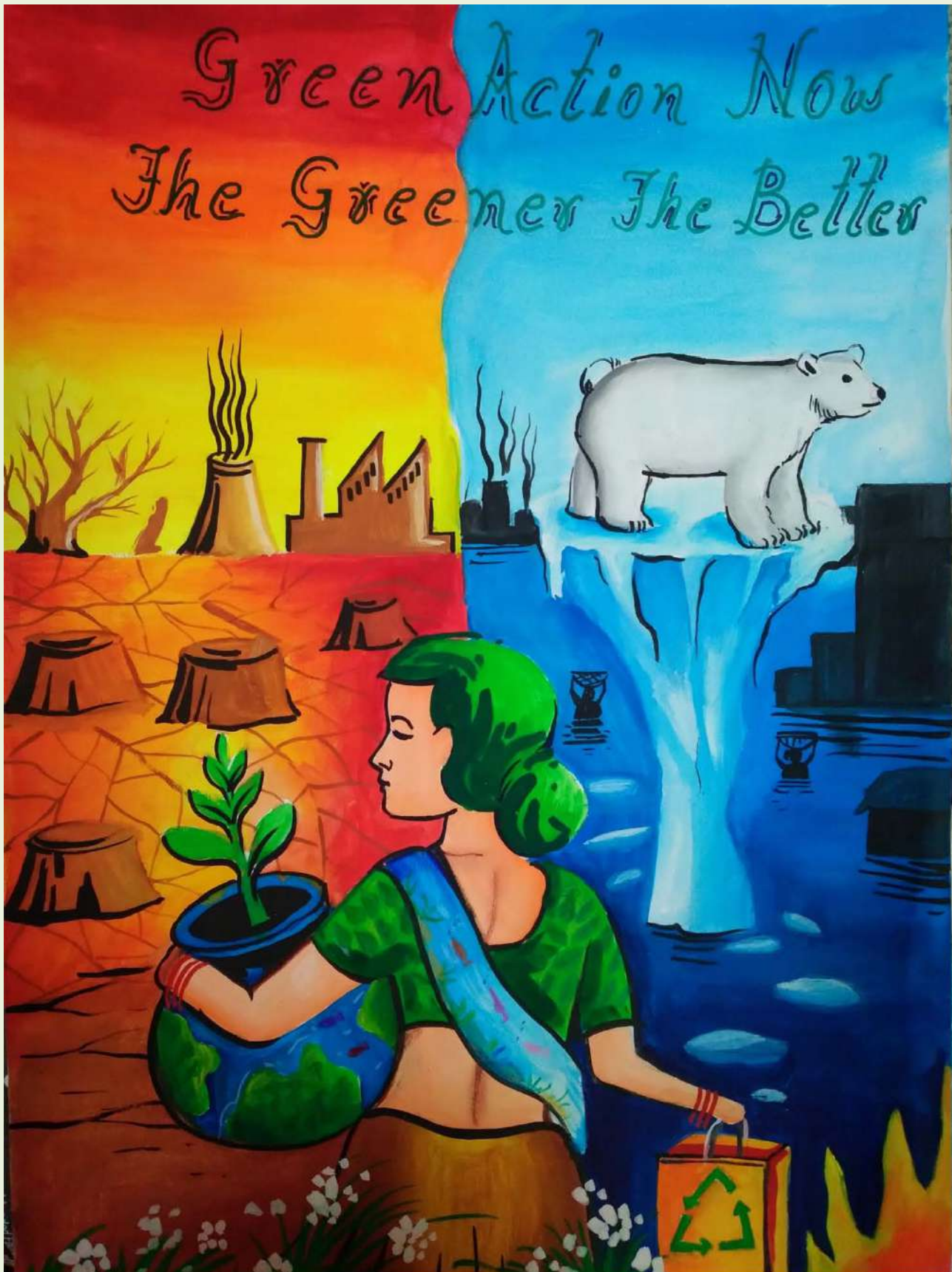
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UMESH Y GURAV, State- Maharashtra, CID No. 124802541 mygov\_163527571448439131





Shivansh Sharma, CID No. 124822271 mygov\_163566624296280331



Tejaswaani Kapoor, mygov\_163759954452570481 (CID No. 124956321 )



user, mygov\_163757675496650551 (CID No. 124952401 )

Sourav Bhowmik mygov\_163500442258287901







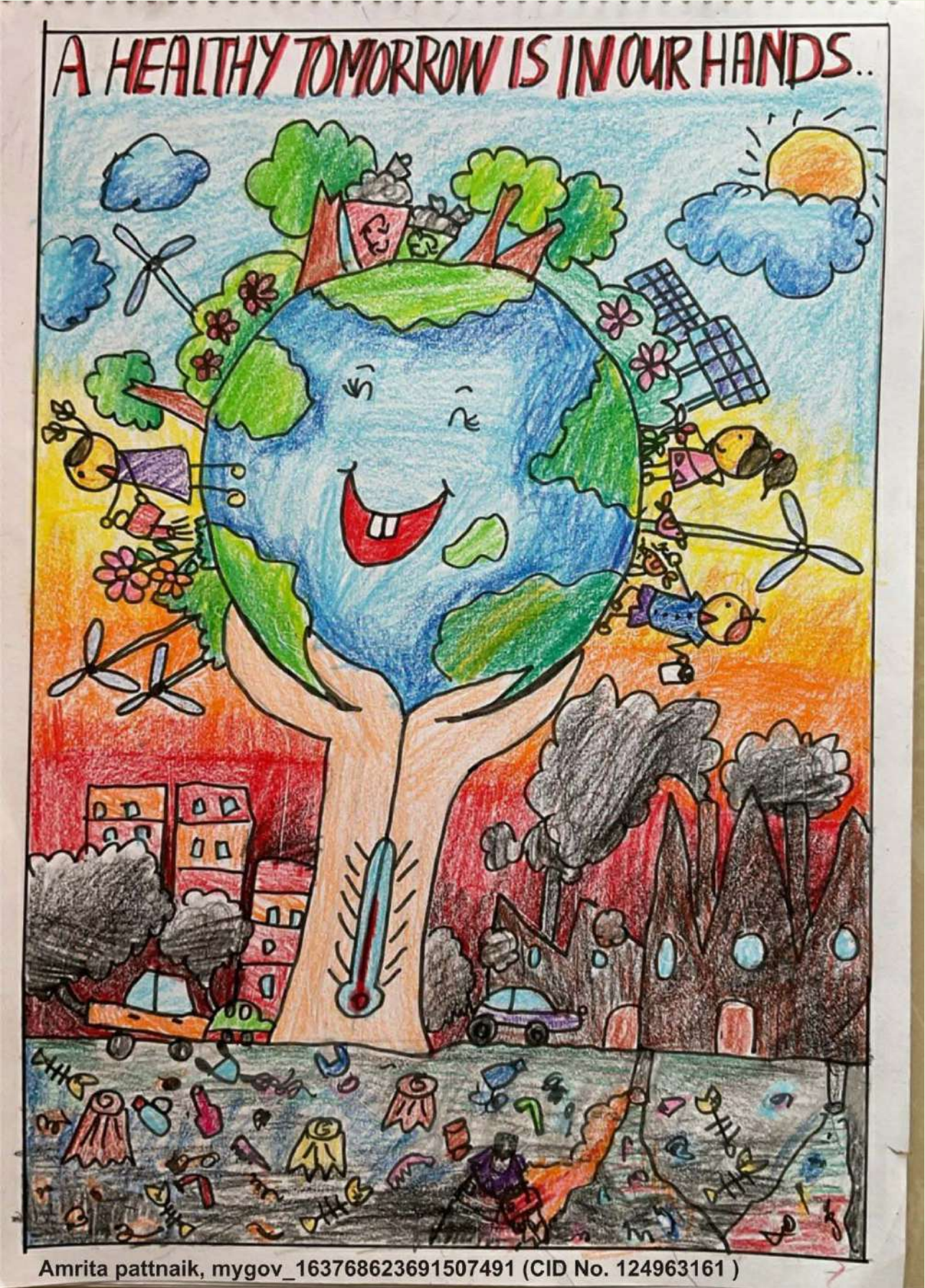
64MP AI QUAD CAMERA  
Shot on realme 7

Ashish Bhanu

AdeshShankar, mygov\_163709569496485501 (CID No. 124914431 )



Neha, mygov\_163765201274920371 (CID No. 124959411 )





Satyawati Nath, mygov\_163615927144076501 (CID No. 124843041 )



Amritabharti, mygov\_163742841195990201 (CID No. 124939441 )

Angelina Raj, mygov\_163725455382457111 (CID No. 124924621 )

HELP TO SAVE



The

EARTH

Name - Angelina Raj  
Class - IV - D  
Roll No - 07  
School - K.V No-2, Baily  
Road, Patna, Bihar.

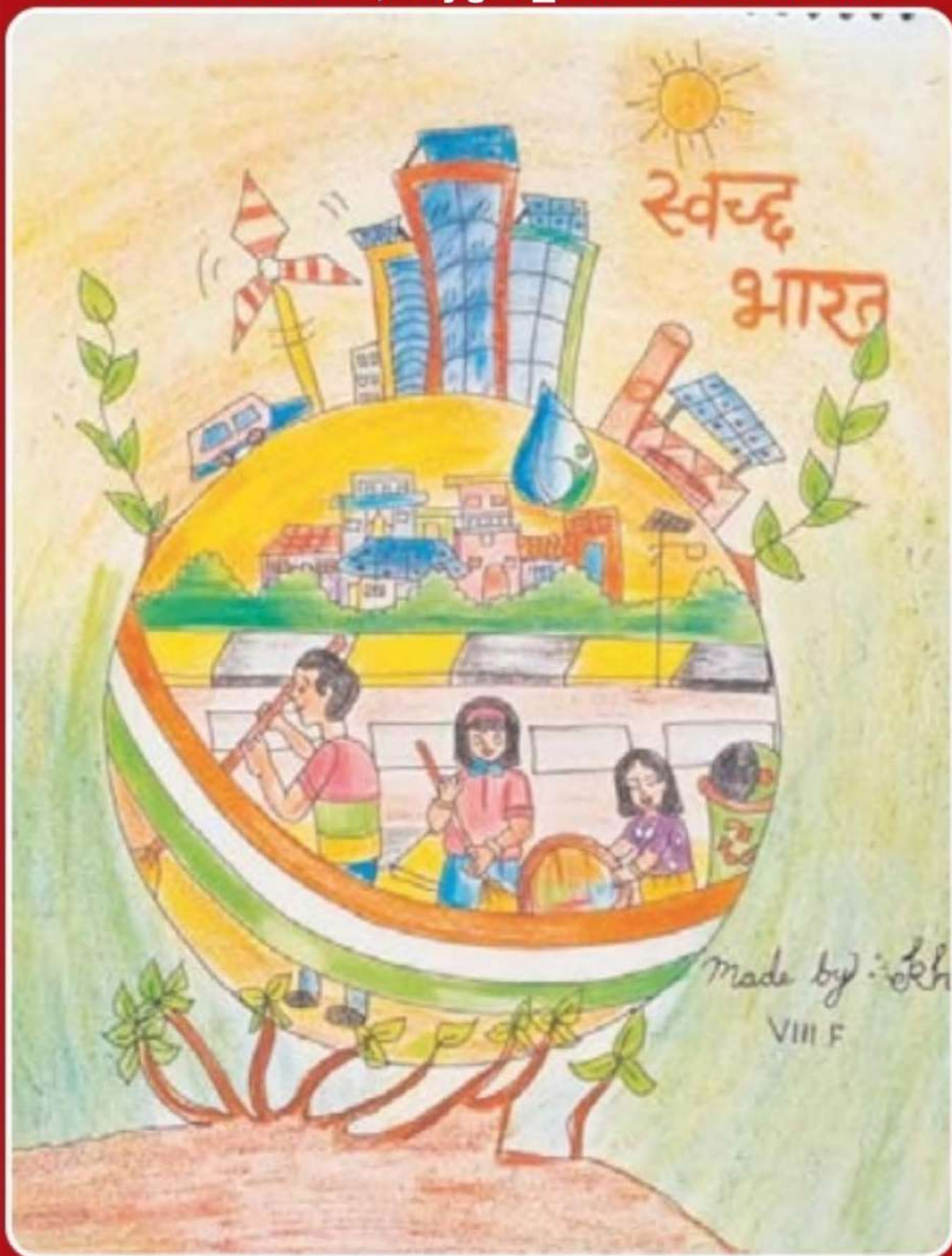


DivayAggarwal, CID No. 124806271 mygov\_163534640991691621





CID No.124952971, mygov\_163758273385452721

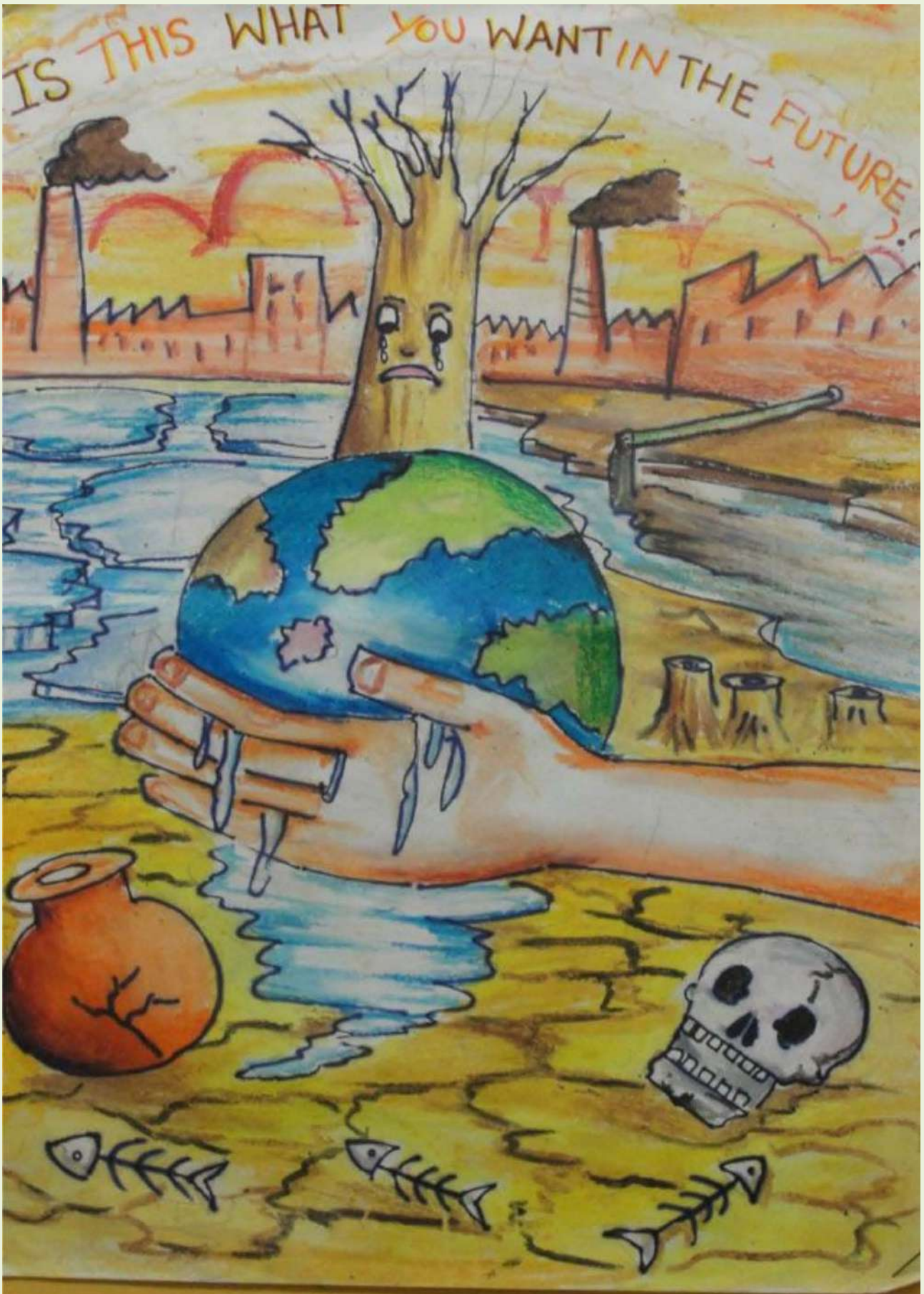


**KHUSHI**, class VIII, Army Public School,  
Chandimandir

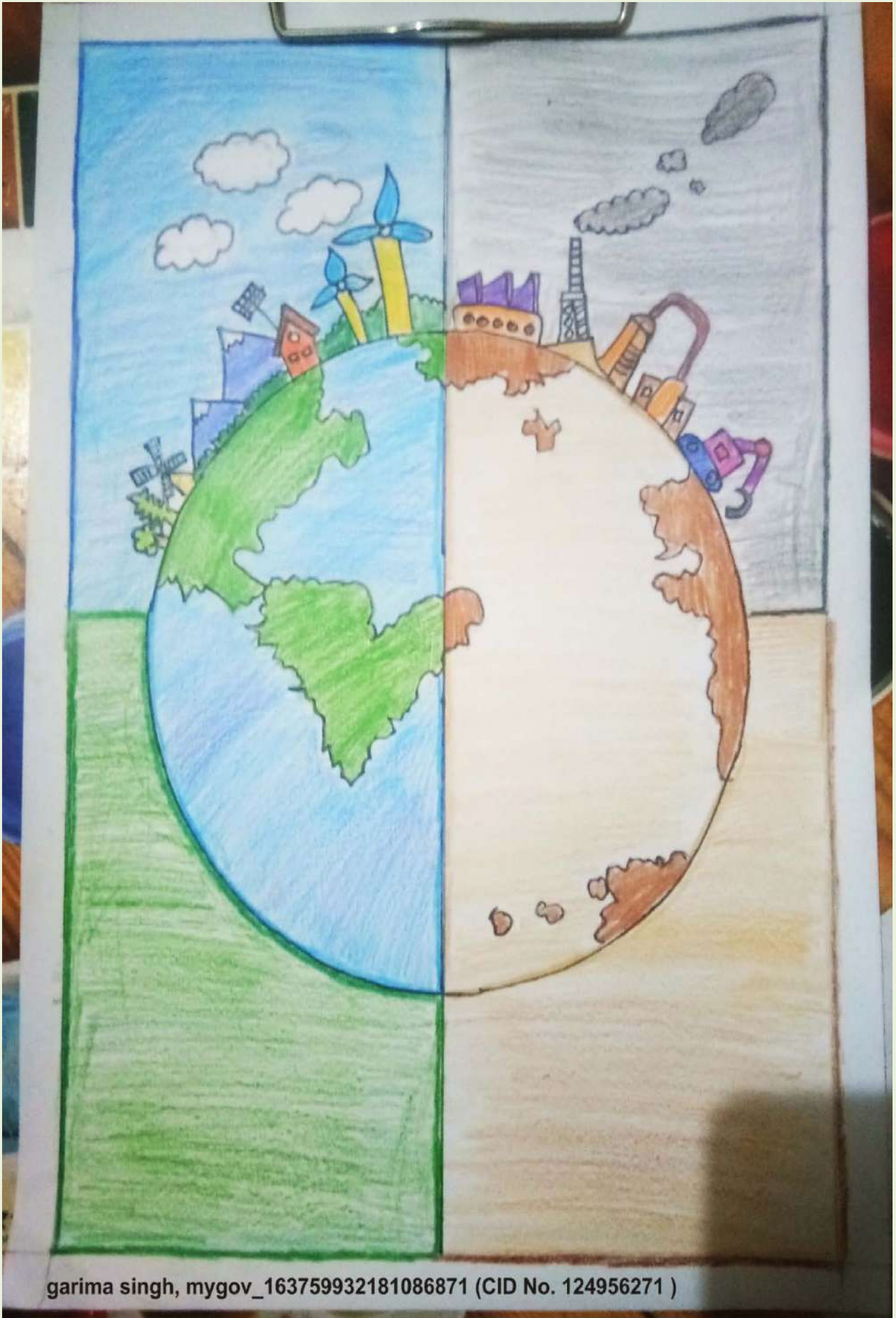
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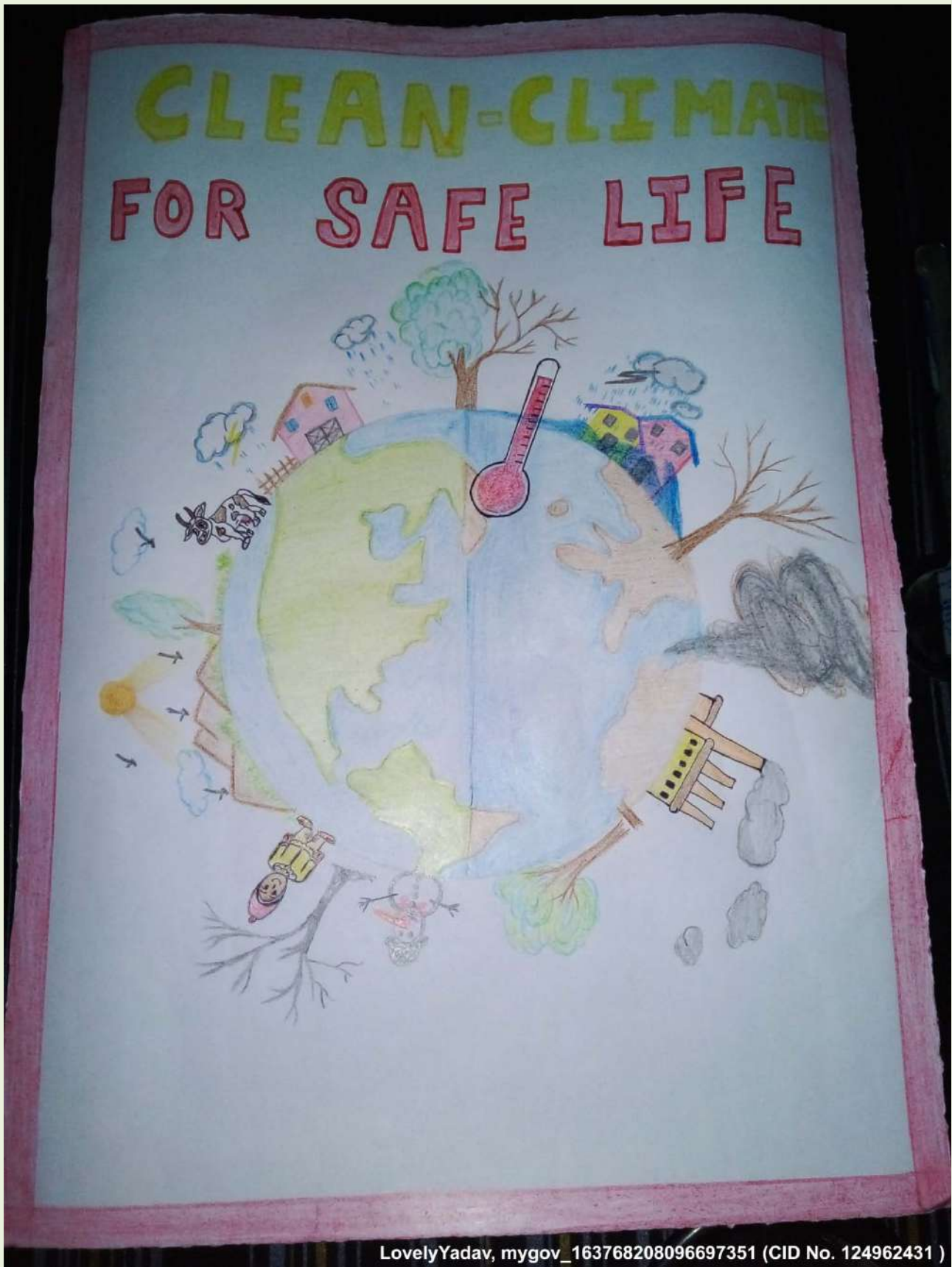




Lovkush Tha CID No.124787321 mygov\_163505430494509941

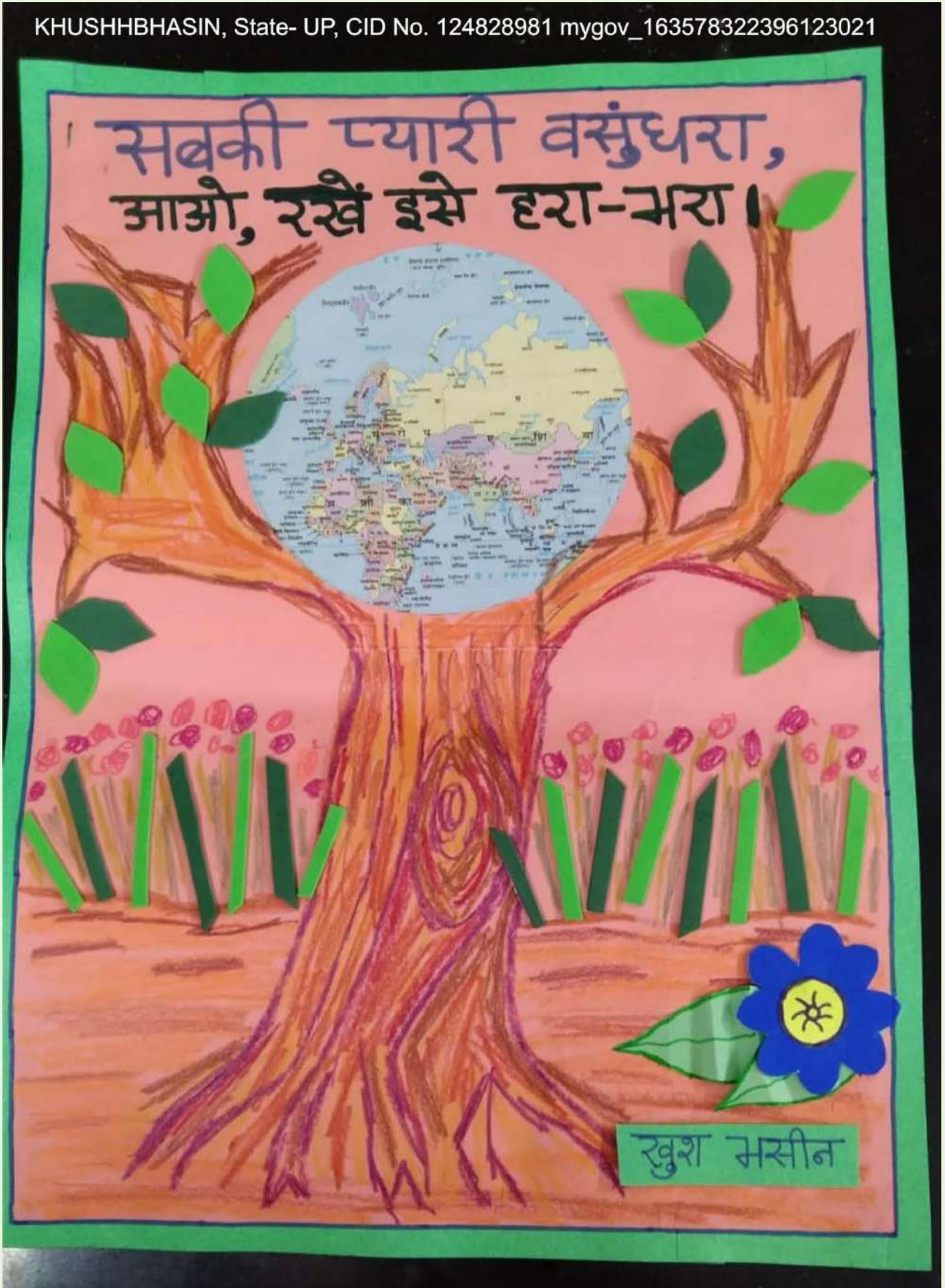


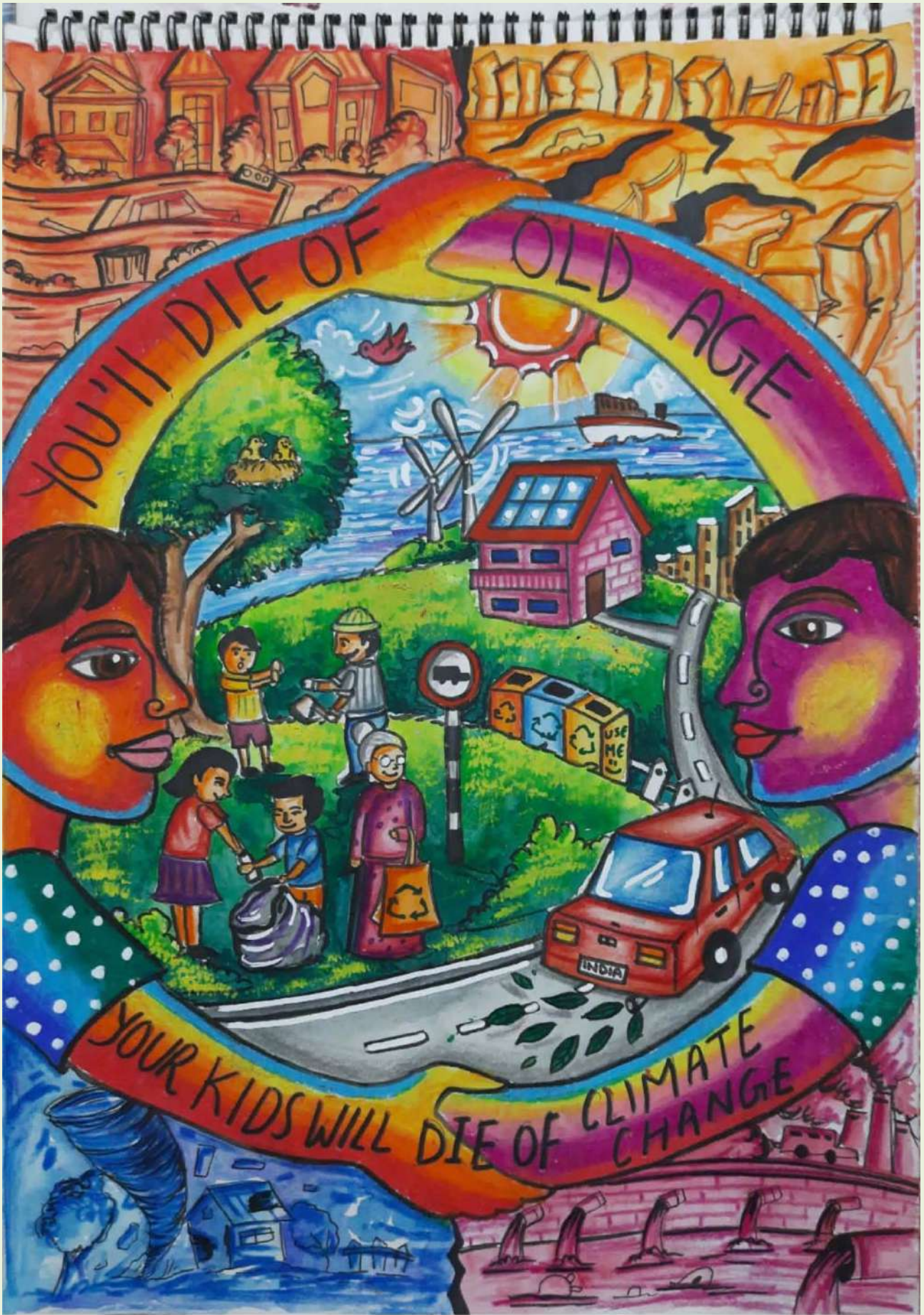
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LovelyYadav, mygov\_163768208096697351 (CID No. 124962431 )

KHUSHHBHASIN, State- UP, CID No. 124828981 mygov\_163578322396123021





Aryan kapoor, mygov\_163760654252581471 (CID No. 124957261 )







Devananda, mygov\_163652181890749911 (CID No. 124869921)

BY DEVANANDA'S S

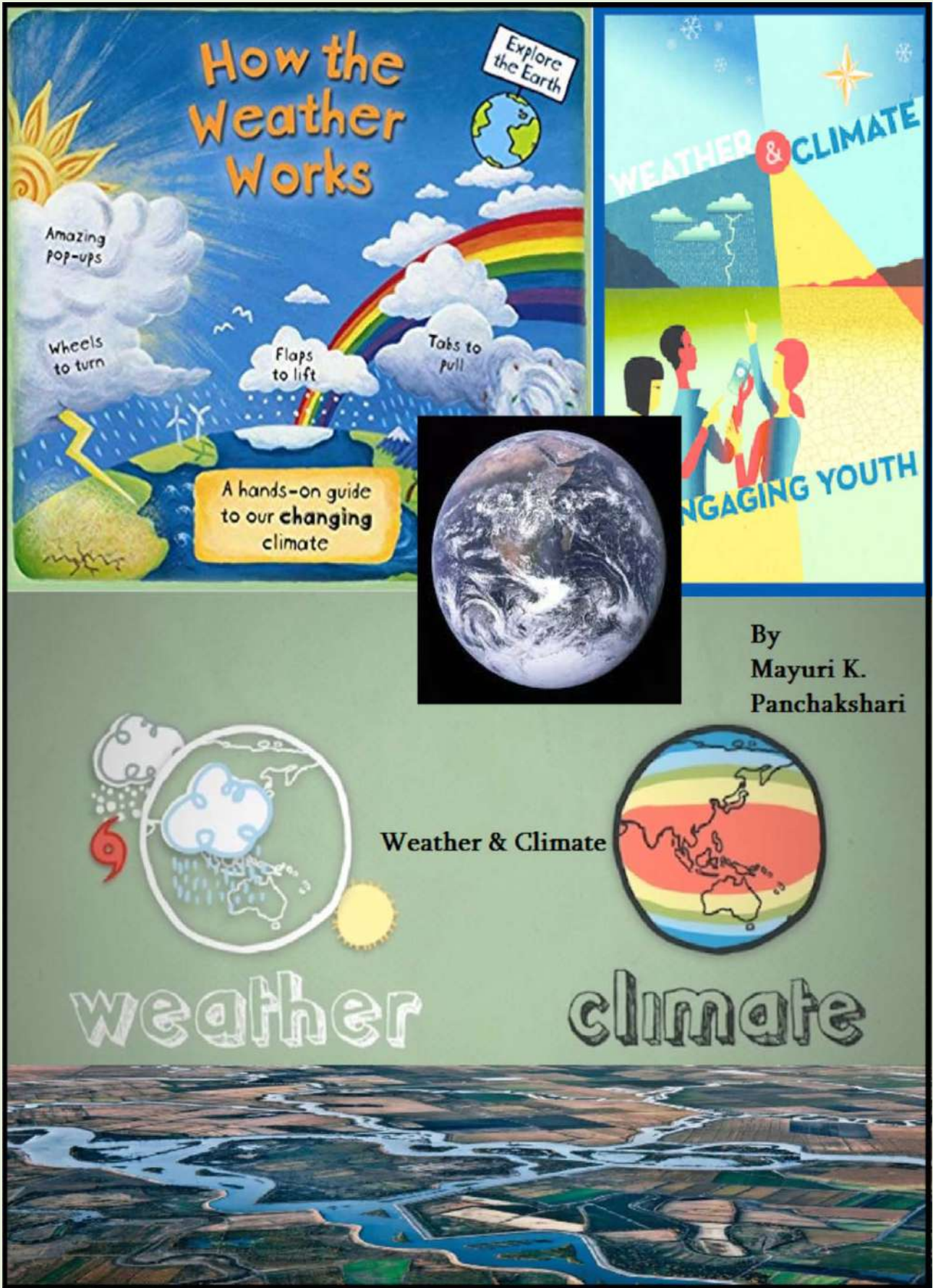


DEBANJALIDUTTA, mygov\_163758713996517211 (CID No. 124953711 )

Manya Pandoh CID No.124789351 mygov\_163506655864853121



Vivo V11Pro  
AI Dual Camera



MAYURI KISHOR PANCHAKSHARI, mygov\_163740494571726711 (CID No. 124935101)

Name: Suishti  
Class: 8th 'E'  
Ad. No: 177462

CID No. 124893811 mygov\_163686159596478891



CID No. 124953001, mygov\_163758299985452721



NAME → POOJA  
CLASS → 12<sup>th</sup>  
Sec → "C"  
School → ARMY PUBLIC  
SCHOOL, Chandi  
-mandi



ChitrangdaSingh, mygov\_163724027896483761 (CID No. 124923111 )



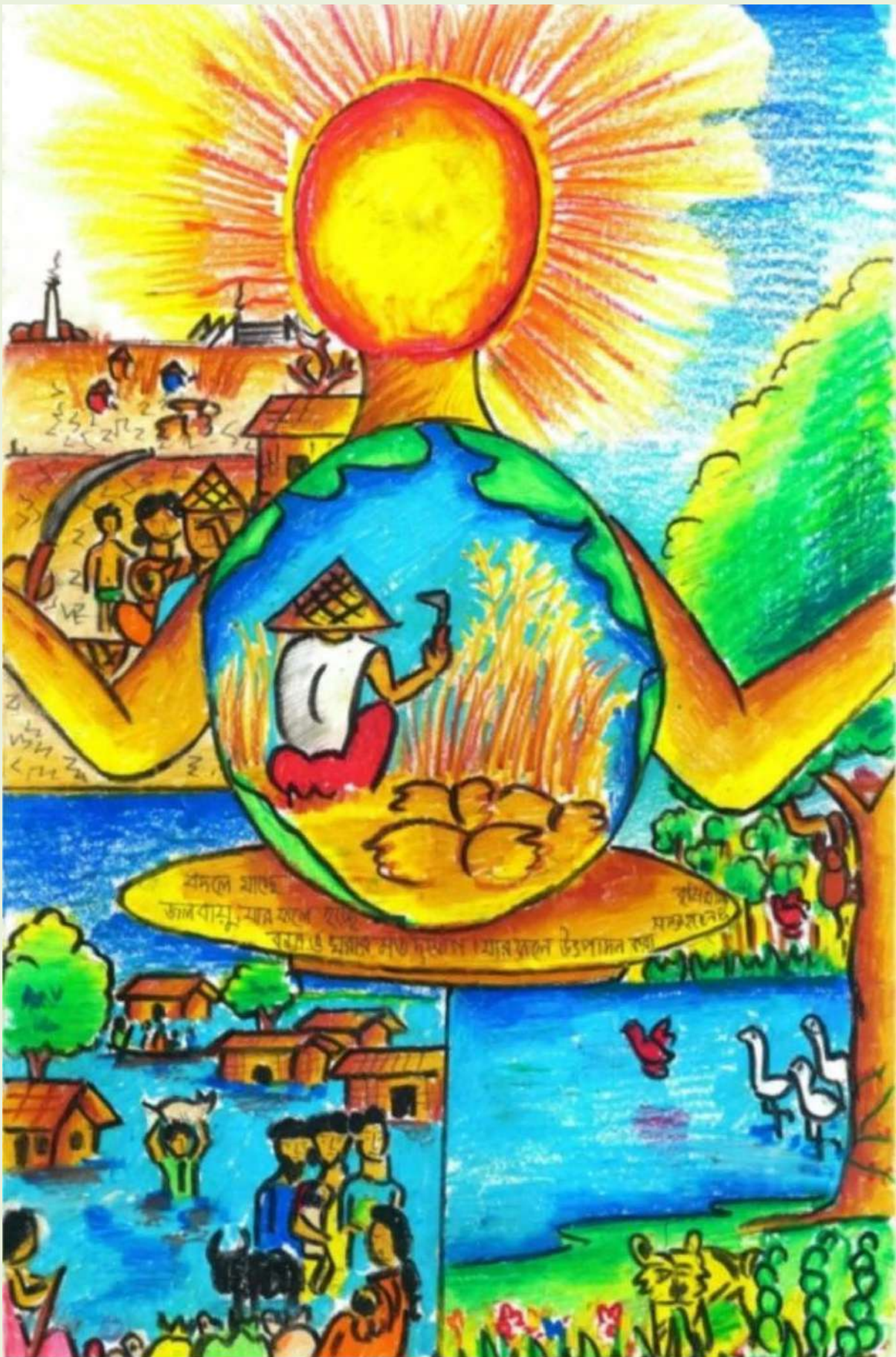
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Subbarao podiyam, mygov\_163768282255899711 (CID No. 124962591 )



SAVE EARTH



PiyushGoyal, State- Delhi, CID No. 124813011 mygov\_163549941887944891



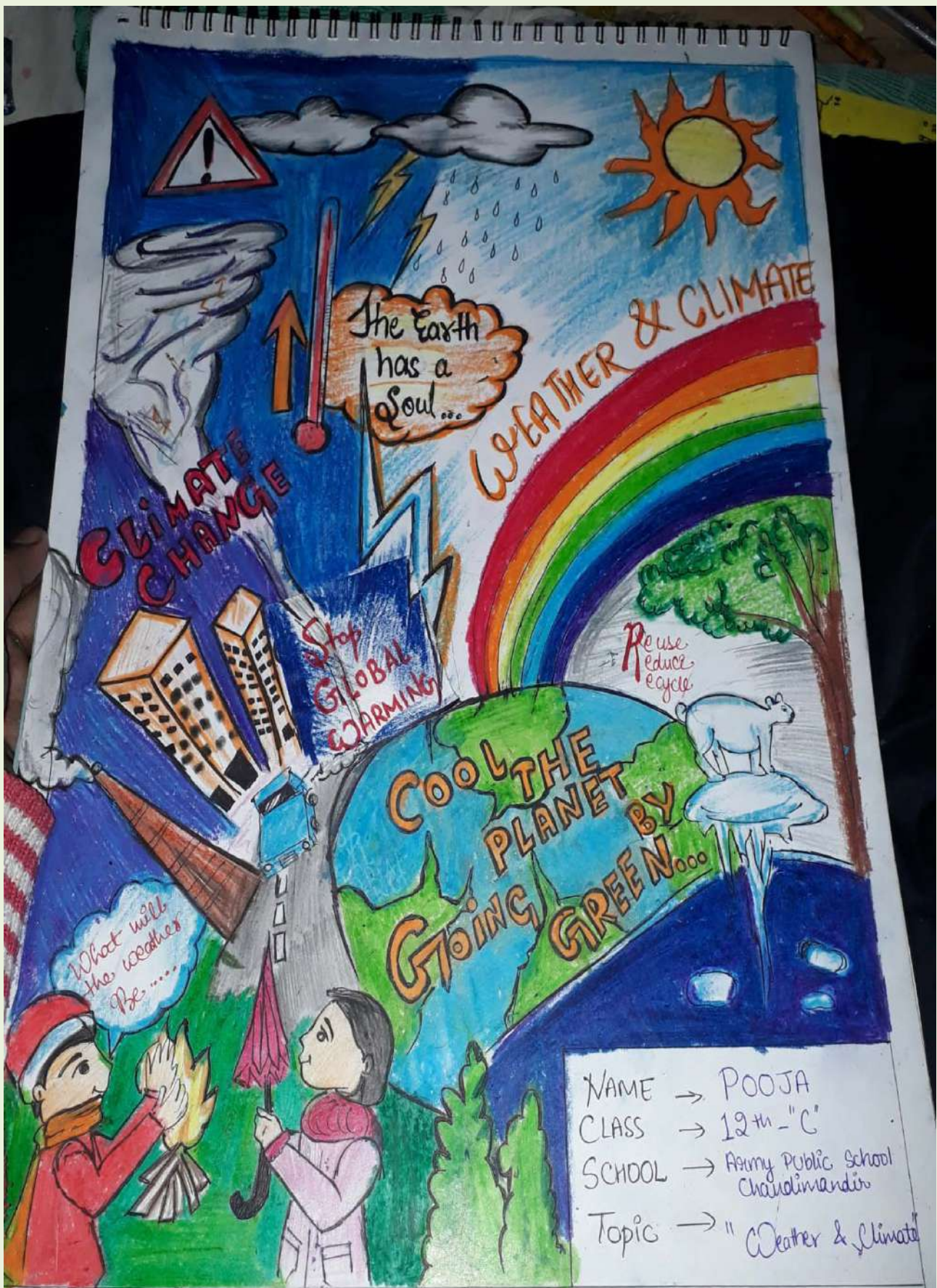
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Pushpa Kumari, CID No. 124811761 mygov\_163548092896228561



Riya Jain, mygov\_163760056447066811 (CID No. 124956421 )



Pooja, mygov\_163768415590247221 (CID No. 124962871)



**NO** Water  
Life !

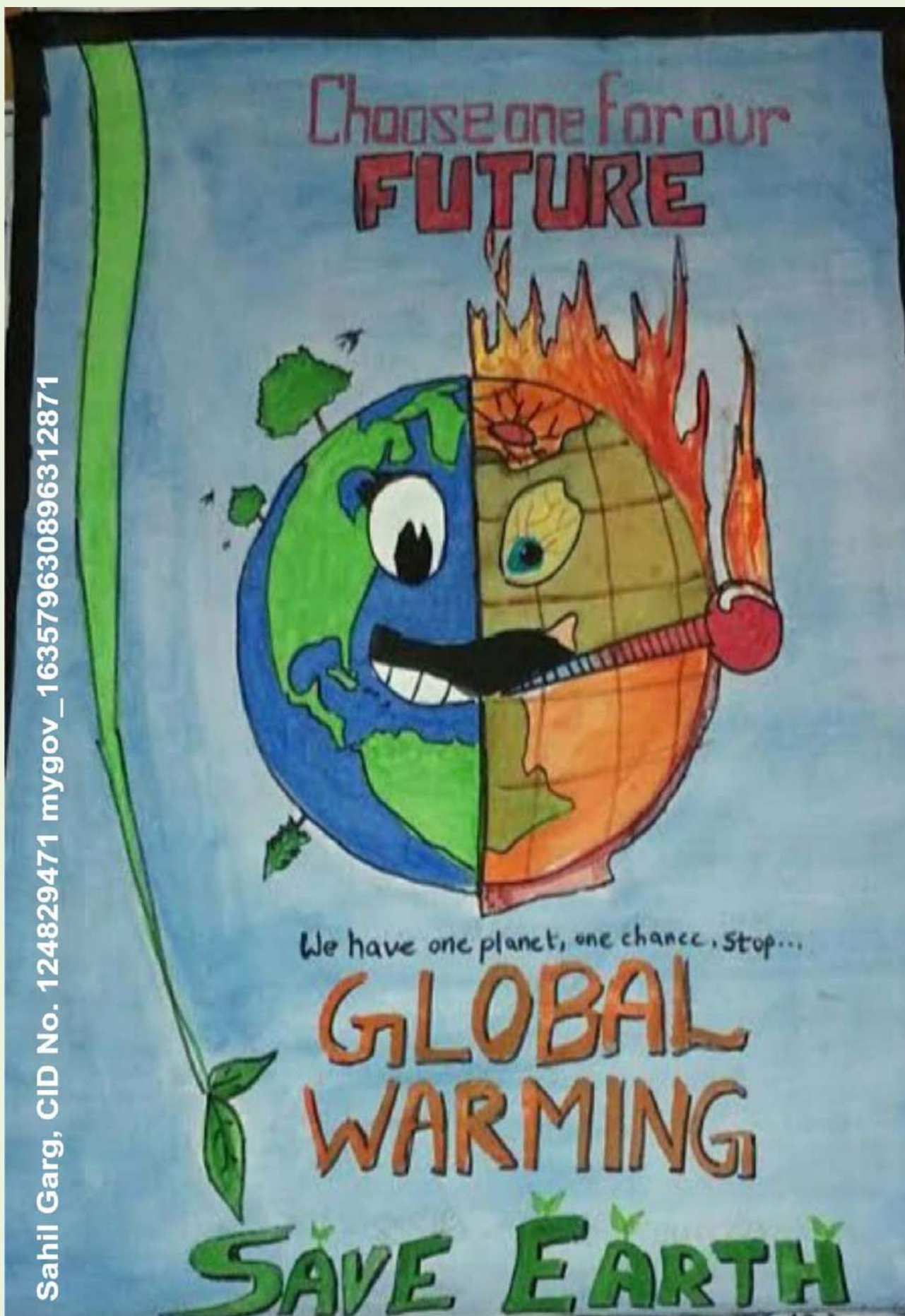


*Calapti*  
25/10/18

**POLLUTION IS SUICIDE  
HARMFUL FOR EARTH AND FOR U**

KIRANSANDUMARKAD, mygov\_163740345796608961 (CID No. 124934781 )







WHEN WEATHER AND CLIMATE ARE NOT IN ORDER.....  
THEN EVERYTHING WILL BE IN DISORDER.

SanjoyDas, mygov\_163733661696343401 (CID No. 124929931)



SurosaNaguri, mygov\_163657739990380671 (CID No. 124873341 )



NANDIKANTI SAI KUMAR, State- Telangana, CID No.124803221 mygov\_16353102021486093

## WEATHER & CLIMATE (मौसम और जलवायु)

**Weather** (मौसम) - कम समय अवधि के दौरान वातावरण की स्थिति मौसम कहलाती है जैसे सर्दी, गर्मी, वर्षा ।

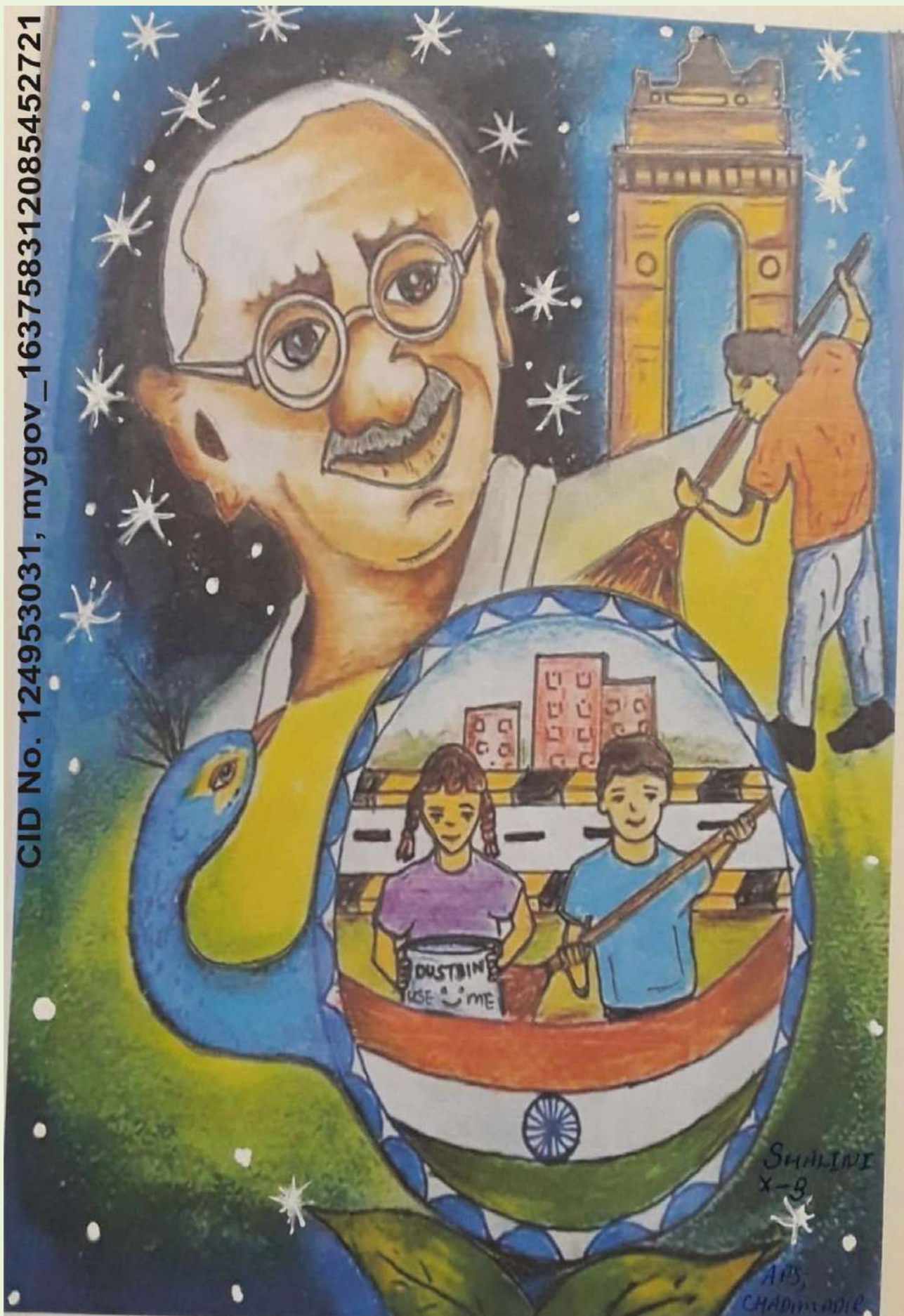
**Climate** (जलवायु) - किसी क्षेत्र विशेष में लम्बी समय अवधि तक वातावरण का व्यवहार जलवायु कहलाता है यह अवधि कम से कम 30 वर्ष होगी ।

या हम ऐसे समझ सकते हैं कि जलवायु, मेजवान है और मौसम उसके मेहमान ।



Rohit Shukla, mygov\_163765109896677141 (CID No. 124959351 )

CID No. 124953031, mygov\_163758312085452721





Sajal jain, mygov\_163769195254964521 (CID No. 124964221)



neha patra, mygov\_163672734896454231 (CID No. 124881121)







REDMI NOTE 8 PRO  
AI QUAD CAMERA

Sangeetha Sangeetha, State- Tamil Naidu, CID No. 124826551 mygov 163574389559377761



SainaKhullar, mygov\_163699873791604821 (CID No. 124908301 )

GO GREEN  
KEEP THE EARTH CLEAN



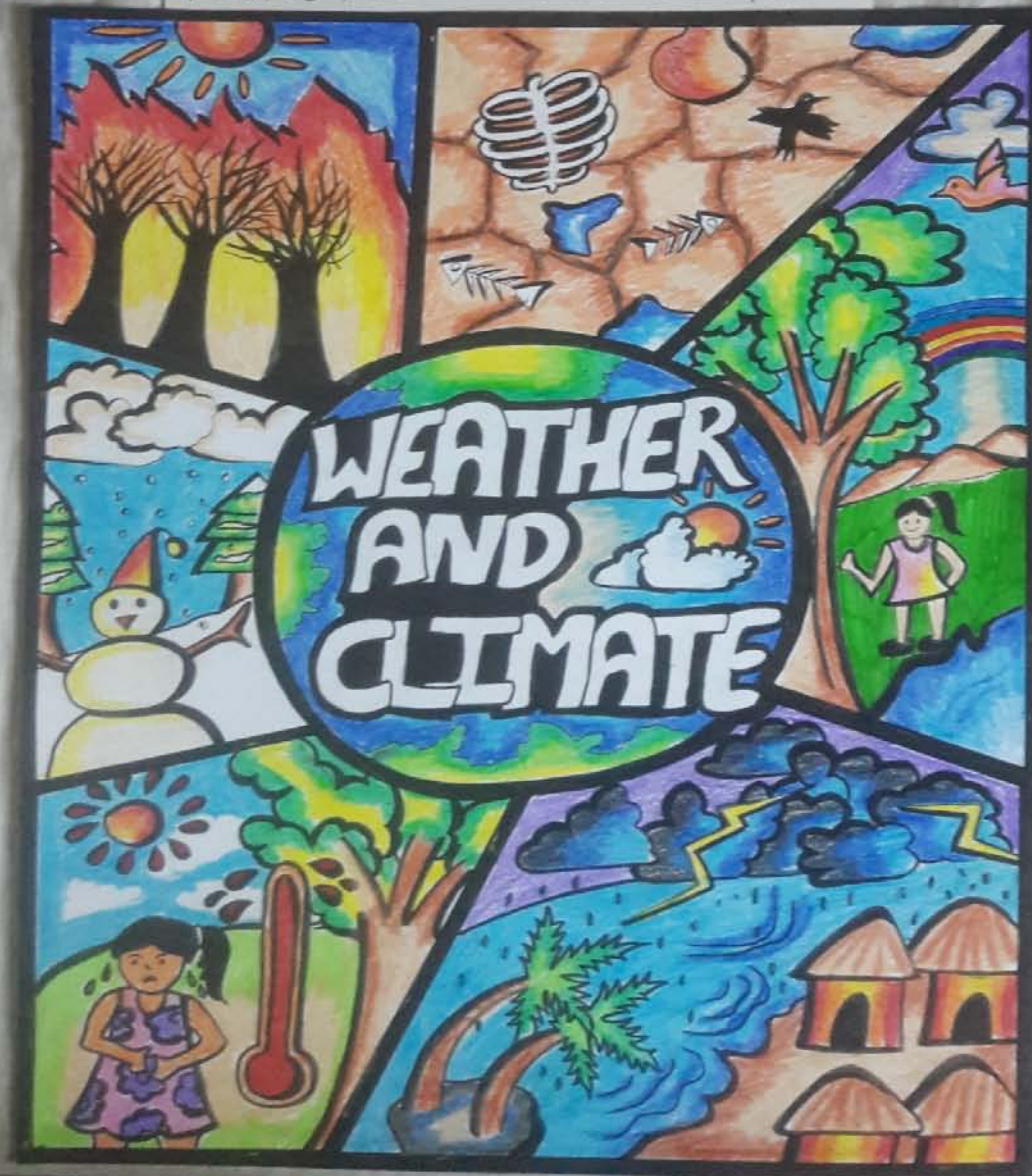
Let's Nurture the Nature so that  
We can make a better future



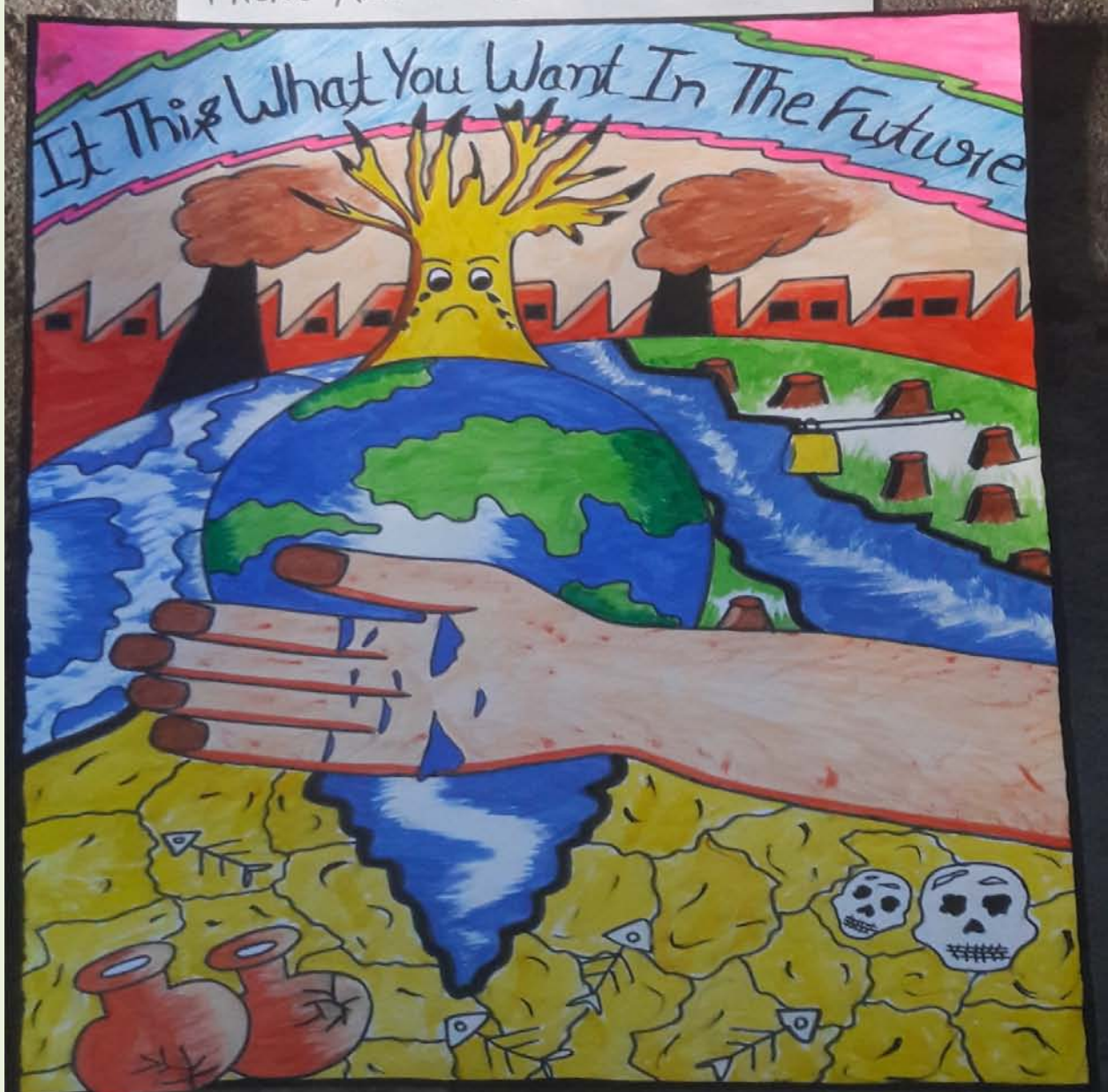
Rekha, CID No. 124815061 mygov\_163555728678996321

Devika , State- Haryana, CID No.124807671 mygov\_ 163538618395554681

NAME → DEVIKA  
FATHER NAME → NARESH  
KUMAR  
SCHOOL NAME → G. M. S. S. S.  
SCHOOL BURIA (YNR)  
ADDRESS → BURIA (YAMUNANAGER)  
HARYANA  
PHONE No. → 8930449784



NAME → PAYAL  
FATHER NAME → HARISH CHAND  
SCHOOL NAME → G.M.S.S.S.  
SCHOOL BURIA (YNR)  
ADDRESS → BURIA (YAMUNANAGER)  
HARYANA  
PHONE No. → 9350623941



Payal, State- Haryana, CID No. 124807711 mygov\_163538739196205761

G GAITHAOREILU A, mygov\_163756709396645551 (CID No. 124950941)

NAME: G GAITHAO REILU KABUI CLASS: VI SE. ROLL No: 05  
SCHOOL: KENDRIYA VIDYALAYA SANGATHAN, NAMRUP, ASSAM

Weather and climate  
and plastic harmful  
Project



PLASTIC WASTES DISPOSE IN OUR RIVER



# WEATHER and CLIMATE

## WEATHER

- The condition of the troposphere at a particular time and place changes *day to day*



## CLIMATE

- The "average" weather conditions of a particular region



“CLIMATE- is what we expect.”

“WEATHER- is what we get.”

We may achieve  
Climate, but weather  
thrust upon us.....

TECNO

CRACK

(By - Deepa Bisht)

Deepa Bisht, mygov\_163669070965503121 (CID No. 124878131)



# CLIMATE VS WEATHER

CLIMATE IS  
what you  
EXPECT.

WEATHER IS  
what you  
GET.

The **AVERAGE**  
Weather conditions  
of a particular  
Region.

The condition  
of the troposphere  
at a particular  
time and place.  
changes from  
**DAY TO DAY.**



SUNNY WINDY

CLOUDY

SNOWY

RAINY

## KEYWORDS:

- Per year
- Annual
- Normal
- Typical
- Always
- Never
- Record lows
- Record highs
- Generally
- Extreme weather events from past
- Seasons




## KEY WORDS:

- forecast
- daily
- cloudy
- foggy
- sunny
- today
- tomorrow
- yesterday
- current
- recent

M S Kumar Swami mygov\_163503896830840724

# WEATHER vs. CLIMATE

**Weather:** atmospheric conditions on a daily basis.

 <b>SUNNY</b> MON	 <b>PARTLY CLOUDY</b> TUES	 <b>RAIN</b> <b>70%</b> WED
---	--	--

**Climate:** weather in a region over an extended period of time.

- Data from 1961-1990 -
- Average Max. Temp: 76.1°F
- Average Min. Temp: 53.6°F
- Average Rainfall: 41.1 in

5.B A (Supporting)

- Differentiate between weather and climate.

Key Vocabulary

- weather
- climate
- forecast
- temperate

M S Kumar swami mygov\_163503892430840724

Rashi, CID No. 124809461 mygov\_163541586796097761

# TACKLING A WICKED PROBLEM

POLAR ICE CAPS



FLOODS DROUGHTS

GLACIAL MELTING

CARBON DIOXIDE

SEA LEVEL RISE

# CLIMATE CHANGE

WHEN WE MEET

Mon, Wed 10-11:30am  
in Hyde 413  
Fri 10-11am in  
Hyde 120

INSTRUCTOR INFO

Cathie LeBlanc  
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Hyde 235B  
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POLAR VORTEX

Textbook: <https://wicked-problem.press.plymouth.edu>

First assignment: Read what is a wicked problem?

AND

What is Tackling a wicked problem?

Be prepared to discuss each question



GREEN HOUSE GASES

CLIMATE CHANGE IS THE catch-all term for significant long-term changes in the expected patterns for AVERAGE weather in a region



SPECIES EXTINCTION

## HABITS OF MIND

- ★ Purposeful Communication
- ★ Problem-solving
- ★ Integrated Perspective
- ★ Self-Regulated Learning

PRACTICE PRACTICE PRACTICE



In this class, we will learn about the causes and effects of our current climate change and undertake PROJECTS to IMPACT the CRISIS.

## GOALS of our class

- ★ Understand the Gen Ed Habits of Mind (HoM)
- ★ Progress in your personal development of the HoM
- ★ Learn about and explain climate change
- ★ Find, evaluate, use, and cite appropriate info
- ★ Engage in project development to MAKE A DIFFERENCE
- ★ Explain how project activities helped you work on the HoM

HOT



WE NEED WATER!



TOO MUCH WATER!





Aryansriram, CID No. 124818661 mygov\_163560540793613841

### Key vocabulary

#### Weather:

the atmospheric conditions we experience in a place at a point in time.

#### Climate:

the average of weather conditions usually over 30 years, which provides an indication of the type of weather we might experience in a particular place at a certain time of year.

#### Precipitation:

is the amount (in mm) and form in which water falls (rain, hail, sleet and snow).

#### Temperature:

is the measure of how hot or cold an area is (in °C).

#### Wind direction:

is the direction from which the wind is blowing.

#### Wind speed:

is a measure (in mph) of how fast or slow the wind is blowing.

### How do we record weather?



**Anemometer**  
Measures wind speed in mph.



**Rain gauge**  
Measures precipitation in mm.



**Thermometer**  
Measures the temperature in °C.



**Wind vane**  
Measures wind direction. It points in the direction in which the wind is blowing from.

© Thomson Learning, Flickr



**Electronic weather station**  
Measures temperature, dew point, atmospheric pressure and humidity.

# Weather and Climate

### Cloud types:

Clouds form many different shapes and sizes. They can be categorised into main types:

- **Cirrus:** wispy clouds at high altitudes
- **Cumulus:** classic 'fluffy' clouds at middle altitudes including cumulonimbus or storm clouds
- **Stratus:** layers of cloud, at relatively low altitudes

Cirrus

Cumulus

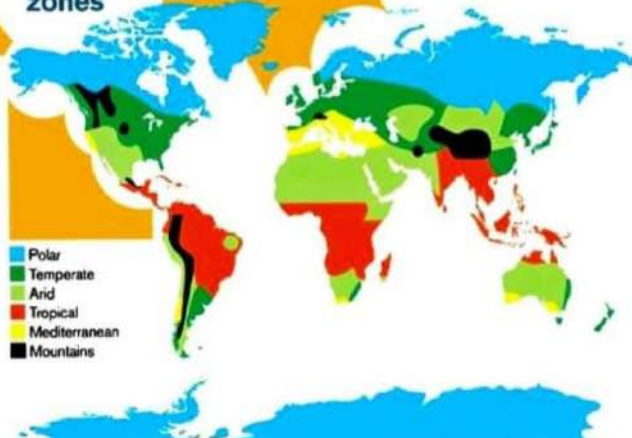
Cumulonimbus

Stratus



The UK Climate is **temperate maritime**. The UK experiences warm summers and cool winters. The Gulf Stream (a warm current of the North Atlantic Ocean) contributes to the mild, maritime climate.

### World climate zones



Bjeyaprakash, mygov\_163748668385795081 (CID No. 124944391)

☀️ **★THERE IS ONLY  
ONE EARTH★**

# WEATHER AND CLIMATE

*Save forests, save the climate!  
Safe climate safe future*

 Sunny	 Some sun and snow	 Rain all day	 Thunder and rain
Today is 	Today is 	Today is 	Today is 
Mostly sunny	Cold and cloudy	Snowing	Sun and rain

**when clouds appear like  
rocks, towers the earth refreshed  
with frequent showers**

*"Sunshine is delicious, rain is refreshing, wind braces us up, snow is exhilarating; there is really no such thing as bad weather, only different kinds of good weather."*





# WEATHER AND CLIMATE CHANGES

## Rising Temperatures

Increase in extreme weather events

Protect forests like the Amazon

Climate change affects the social and environmental determinants of health – clean air, safe drinking water, sufficient food and secure shelter

## Rising Sea Levels

Reduce plastic  
Restore nature to absorb more carbon  
Protect the oceans

Human activities are changing

the climate Land Degradation

Invest in renewable energy  
Keep fossil fuels in the ground  
Switch to sustainable transport

SATYAJIT ROUT, mygov\_163604815879085021 (CID No. 124838051)



Sanjay Krishna Rajendran, mygov\_163670056593871601 (CID No. 124878771 )

## CLIMATE & WEATHER

**WHY IS IT IMPORTANT TO LEARN ABOUT WEATHER AND CLIMATE?**

IT'S IMPORTANT THAT WE UNDERSTAND HOW THE CLIMATE IS CHANGING, SO THAT WE CAN PREPARE FOR THE FUTURE.

**WHY IS THE WEATHER IMPORTANT TO US?**

1) WEATHER CONTROLS THE DISTRIBUTION OF RAIN WATER ON EARTH. ALL LIVING ORGANISMS ON EARTH REQUIRE LIQUID WATER TO SURVIVE, AND HUMANS REQUIRE FRESH (NOT SALTY) WATER FOR DRINKING AND AGRICULTURE (GROWING CROPS FOR FOOD). DROUGHTS CAN HAVE A MAJOR IMPACT ON HUMANS AND HAVE KILLED MILLIONS OF PEOPLE THROUGHOUT HISTORY.

Nature is so powerful, so strong. Capturing its essence is not easy - your work becomes a dance with light and the weather. It takes you to a place within yourself.



**TOGETHER**

**WE WILL  
CREATE  
CHANGE**


RAJESHKUMAR SHIVPRATAP SINGH, mygov\_163686692658896681 (CID No. 124894381 )



*Weather &  
Climate*

How To mygov\_163636277096390701 (CID No.124859021 )

**IN SEARCH OF GOLD  
WE ARE LOOSING THE  
DIAMOND**



**SAVE EARTH**

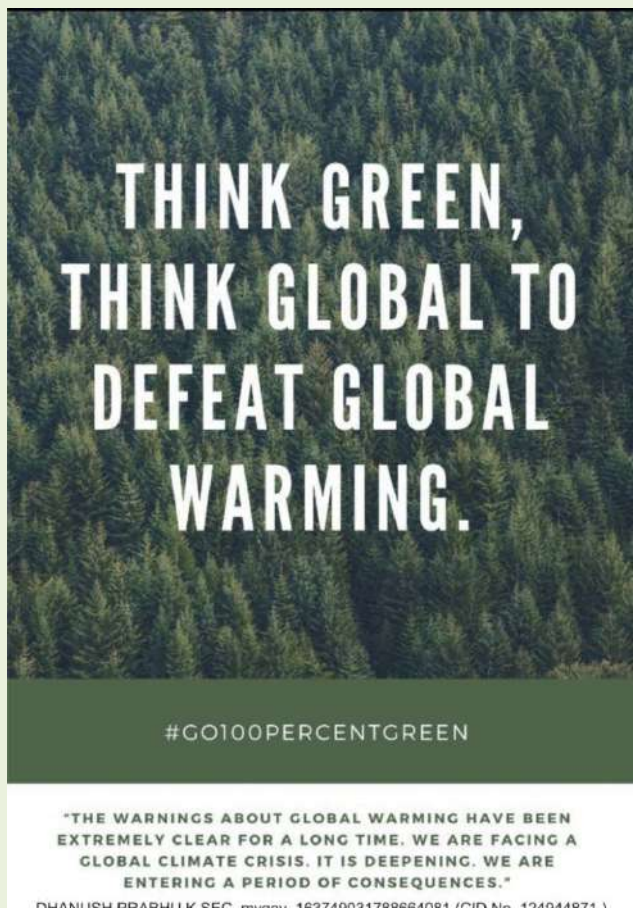
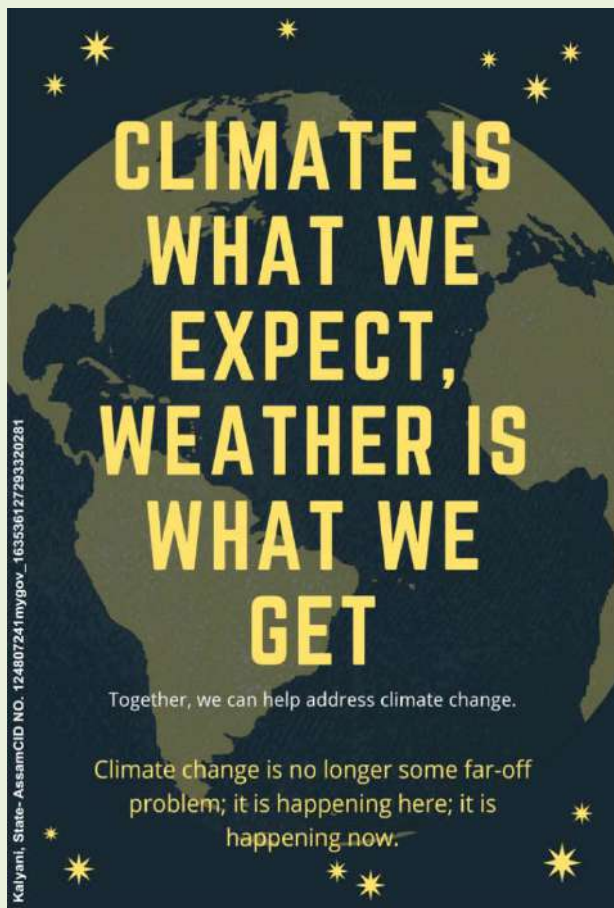
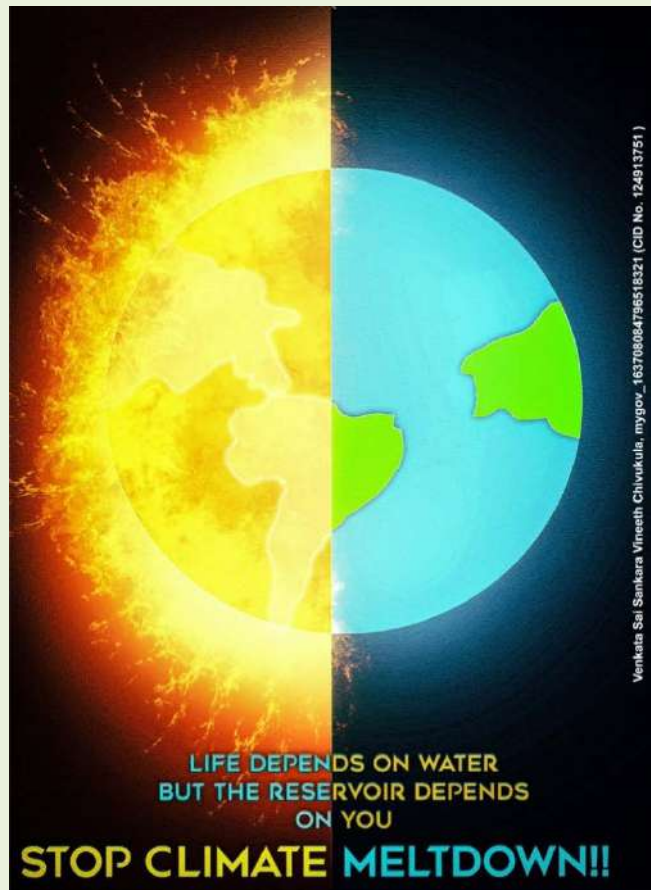
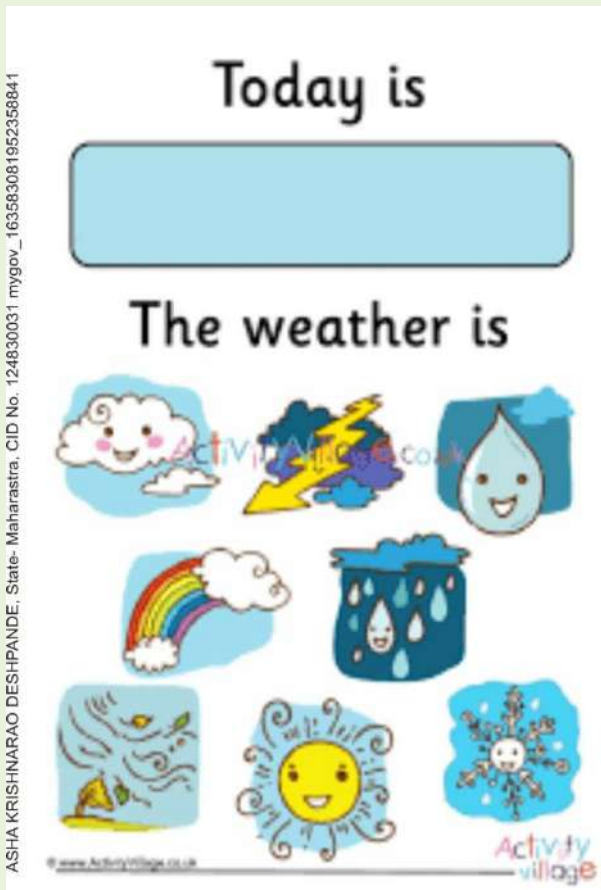
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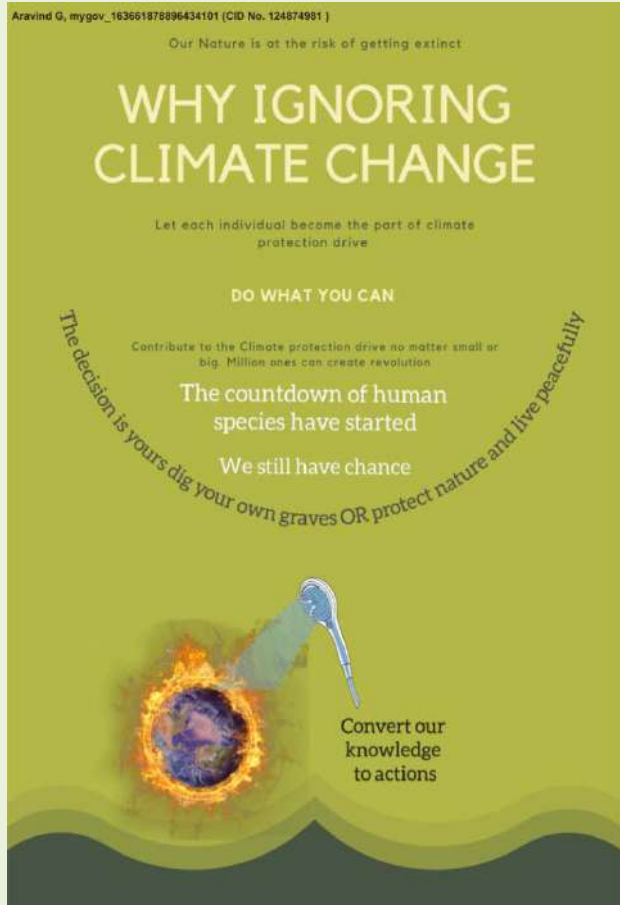
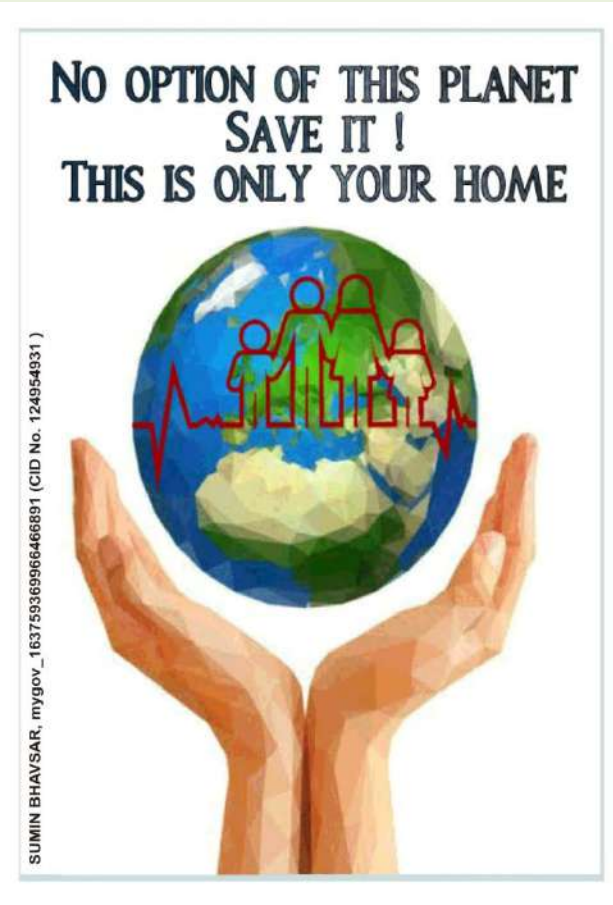
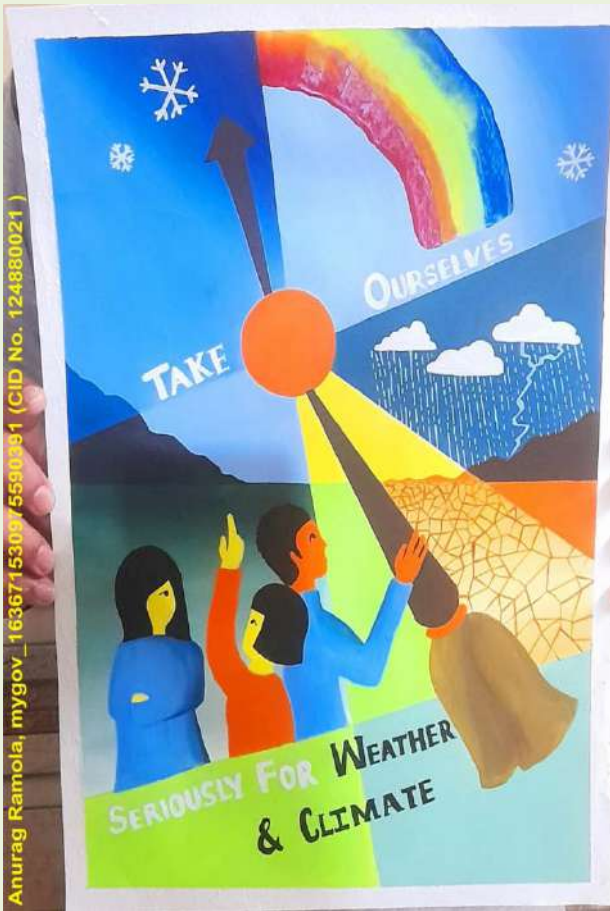
**STOP  
CLIMATE  
CHANGE**

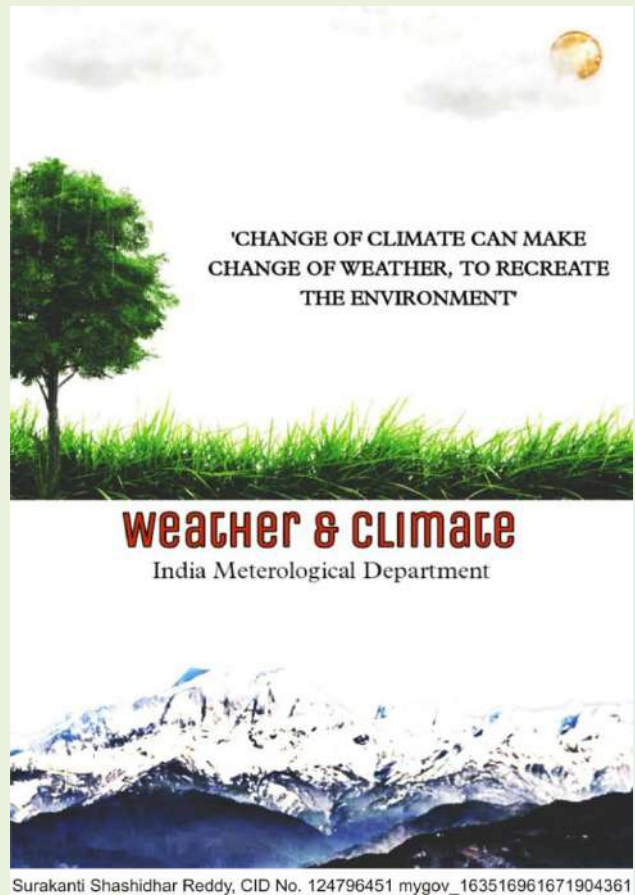


**SAVE EARTH BEFORE  
ITS TOO LATE...!!**

AUCHITHYASAJAN, mygov\_163655333681848201 (CID No. 124872211 )







# Weather And Climate

The average weather  
The stae of atmosphere at conditions in an area over  
a particular place and time a long period of time.

Sharvaanipughalendhi, mygov\_163748705589146841 (CID No. 124944501)

## Weather and climate

**TOGETHER**  
**WE WILL**  
**CREATE**  
**CHANGE**

Weather is what we expect  
climate is what we get

SANDHIYA V SEC, mygov\_163748718386126561 (CID No. 124944531)

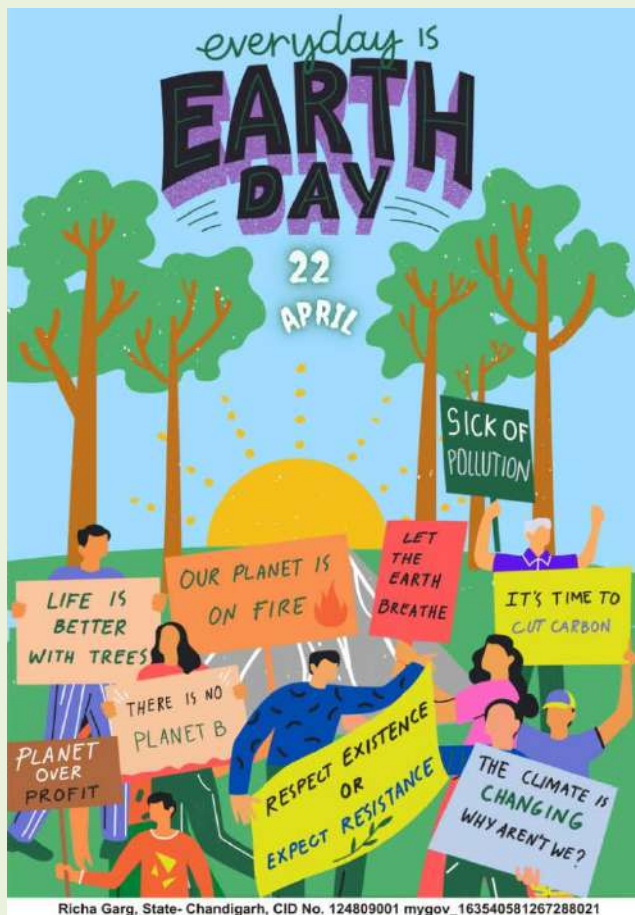
## Weather & Climate Poster

GV SRIHARISH, mygov\_163731925482679581 (CID No. 124928081)

## Mother Earth needs you

By polluting the oceans, not mitigating CO2 emissions and destroying our biodiversity, we are killing our planet. Let us face it, there is no planet B.

Vinaykumarnk mygov\_163639045887603541 (CID No. 124862171)



deepanshu kaushik, mygov\_163639541084868211 (CID No. 124862631 )

Rising maximum temperatures

Shrinking glaciers

Rising sea levels

Heavy Rain

Deforestation

Higher ocean temperatures

**Stop burning yourself.**

**“Global Warming and Climate change”**

*Life given to the people's, by the people's, for the people's*

Let's come together and save life of eachother ❤️

Let's come together and destroy the life of eachother ❌

*Death given to the people's, by the people's, for the people's*

PriyankaAshokGore, mygov\_163768186596572371 (CID No. 124962481 )

Royal Geographical Society with IBIG

Key vocabulary

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How do we record weather?

Barometer: Measures air pressure at high

Rain gauge: Measures the amount of rain

Thermometer: Measures the temperature

Wind van: Measures wind direction & speed in the direction which the wind is blowing from

Electronic weather station: Measures temperature, air pressure, atmospheric pressure and humidity

UK climate graph

World climate zones

For UK Climate a temperate maritime. The UK experiences four seasons and mild winters. The Gulf Stream is warm current of the North Atlantic Ocean which warms the UK's maritime climate.

Blue: Polar  
Green: Temperate  
Yellow: Arid  
Red: Subtropical  
Black: Monsoon

The Royal Geographical Society with IBIG is a not-for-profit organisation. We provide a wide range of services for members of all ages. We are committed to providing support and to inspiring people to explore our world through science.

gopal jee Tiwari, CID No. 124814941 mygov\_163553580282132881

**Weather** WHAT WE GET

**Climate** WHAT WE EXPECT

Climate is the long-term pattern of weather in a particular area. It almost remains constant throughout the year.

Weather is the state of the atmosphere, describing for example the degree to which it is hot or cold, wet or dry, calm or stormy, clear or cloudy.

EXAMPLES

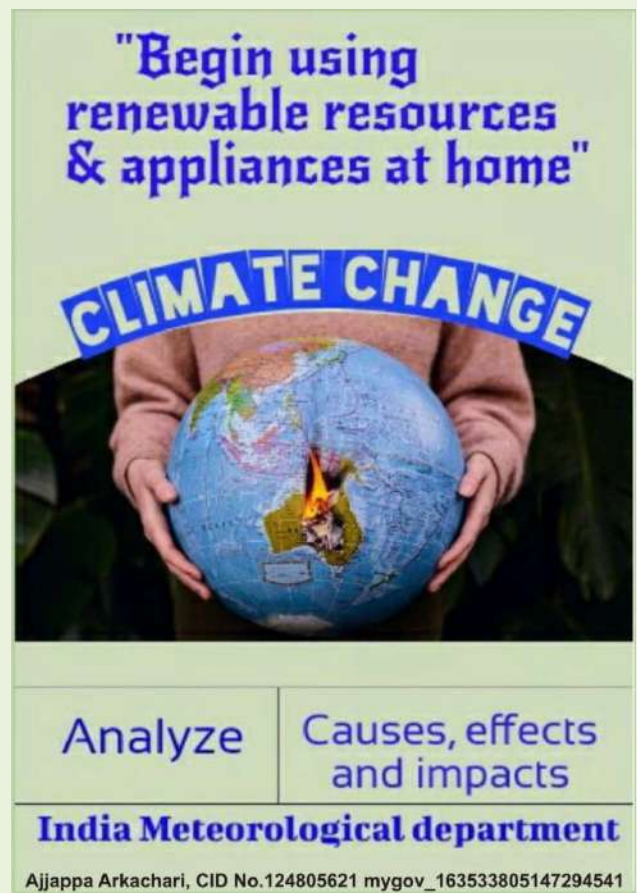
EXAMPLES

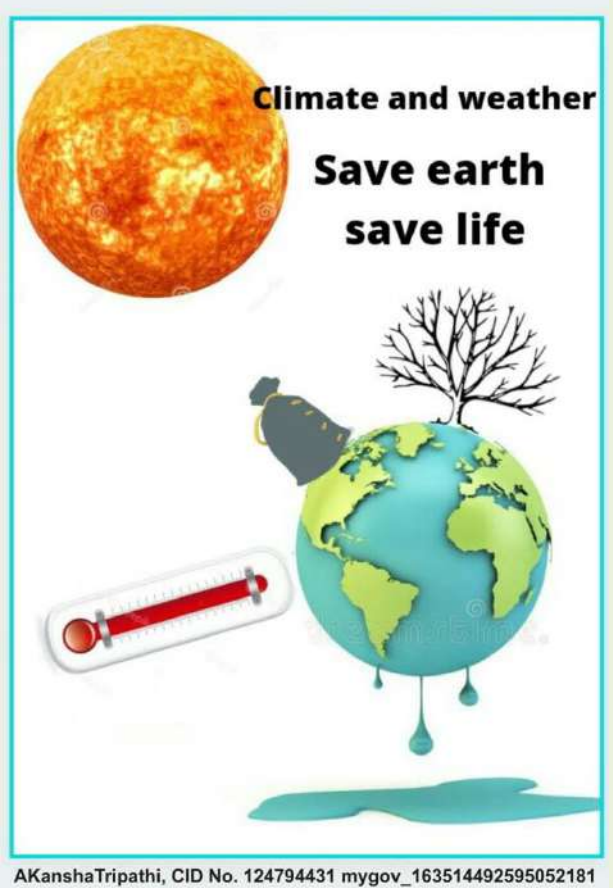
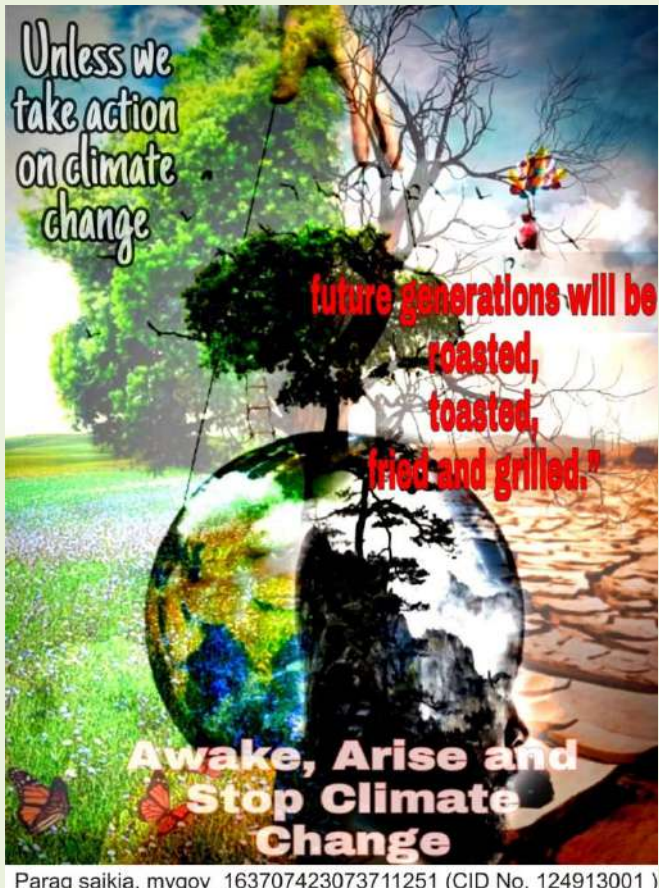
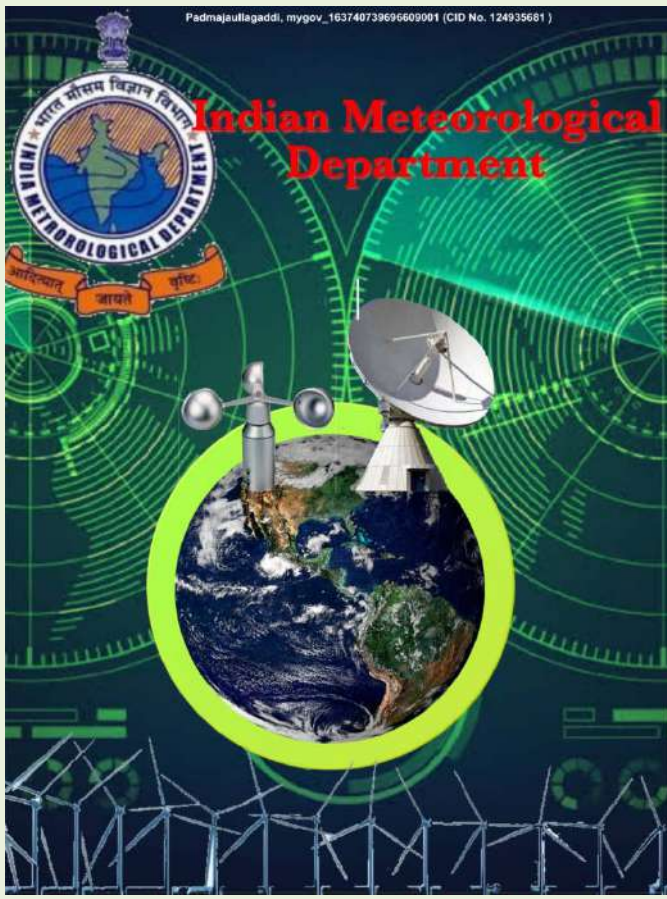
Average weather pattern of Kolkata

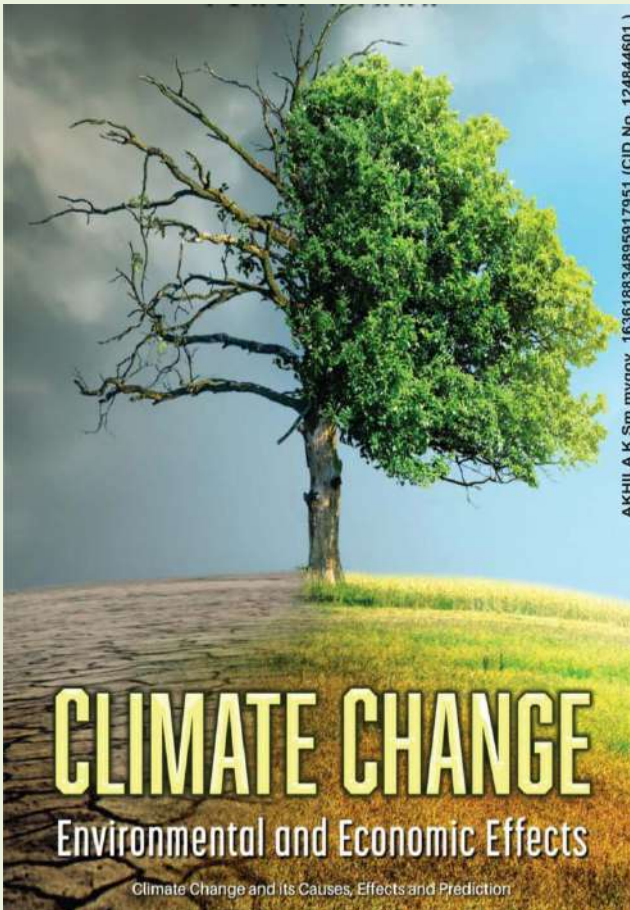
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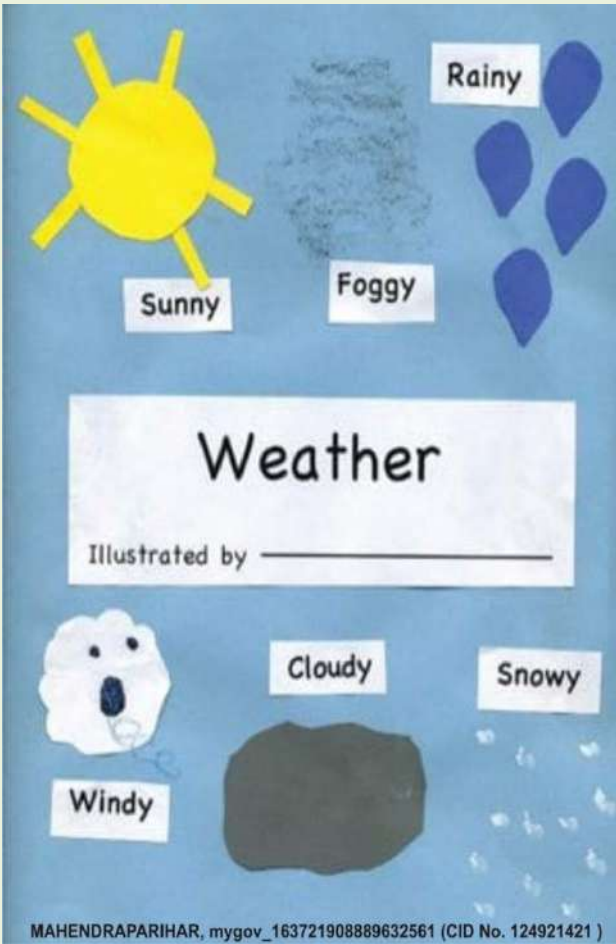
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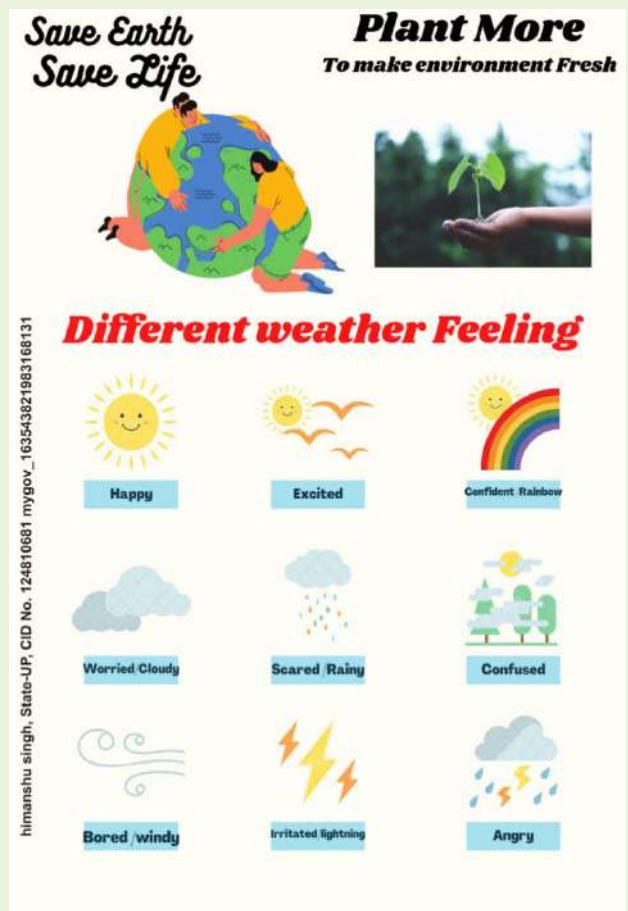














भारत मौसम विज्ञान विभाग  
**INDIA METEOROLOGICAL DEPARTMENT**

पृथ्वी विज्ञान मंत्रालय, भारत सरकार  
**Ministry of Earth Sciences, Govt. of India**

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**FOUNDATION DAY  
2022**