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Conserve Water Resources...

**"CLIMATE CHANGE - ROLE OF CITIZENS - NATIONAL ENVIRONMENT
AWARENESS CAMPAIGN 2008-09"**

**Organized by
PANCHAVATI RURAL DEVELOPMENT SOCIETY (PRDS)**

**PROGRAMME HELD ON 29-01-09 AT GOVERNMENT INSTITUTE OF PRINTING
TECHNOLOGY (POLYTECHNIC COLLEGE), SECUNDERABAD:**

The programme was organized by showing the charts prepared on the topic of "Climate Change – Role of Citizens". The target of participants are Polytechnic College students. The programme was coordinated by **Sri Naga Prasad, A.E.** the programme scheduled at 10.30 a.m. to 12.00 Noon.

Sri A. Muralidhar, Secretary – PRDS communicated to the students are as follows :

DEFINITION :

As per the **Inter-governmental Panel on Climate Change (IPCC)** 4th Assessment Report 2007 – the definition on "Climate change"

"The Warming of the Climate system is unequivocal, as is now evident from increases in Global average AIR, AND OCEAN TEMPERATURE, WIDE SPREAD MELTING OF SNOW AND ICE AND RAISING Global mean SEA LEVEL".

WHAT IS CLIMATE ? WHAT IS THE DIFFERENCE BETWEEN WEATHER AND CLIMATE ?

Climate is What YOU EXPECT : Weather is What YOU GET.

WEATHER : Weather is an assessment of temperature, Humidity, Cloud Cover, Pressure, Wind conditions etc..

It describes what is happening outdoors in a **GIVEN PLACE AT A GIVEN TIME.** The Weather can change a lot within a very short time. **Example :** It may rain for 1 Hour and then become Sunny and Clear.

Climate describes the total of all weather occurring in a place over a long period of time, generally years. (Climatologists generally consider 30 years as the time needed to find out the Climate of a place).

Climate includes Weather conditions, regular weather sequences (like Winter, Spring, Summer an fall) and Special Weather events (Floods).

WHAT IS CLIMATE CHANGE ?

As we discussed earlier the Weather generally changes in a short time, it may rain for an hour... and then the Sun may come out. Climate can change too !!

CLIMATE has always changing and this Change is **NATURAL.** EARTH has witnessed **ice ages** in past which are examples of Change in Climate.

The Natural causes of Climate change include variations in the earth's Orbit around the Sun, around it Polar axis, changes in Solar output (Sun's Heat); Stellar dust in Earth's atmosphere; and the Change is the concentration of gases in the atmosphere.

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In the Past Climate changes took a very long time. Today the rate of Climate Change is **faster** and the Change is that **the earth is getting WARMER !!!**

WHAT IS GLOBAL WARMING ?

Earth has a Natural temperature Control System. Certain atmospheric gases are critical to this System and are known as GREEN HOUSE GASES.

Naturally occurring Greenhouse Gases include WATER VAPOUR, CARBON DIOXIDE, OZONE, METHANE, CLOROFLURO CARBON (CFC) and NITROUS OXIDE, AND TOGETHER CREATE A NATURAL GREENHOUSE EFFECT.

An Average 1/3rd of the Solar radiation that hits the earth is reflected back to Space. Of the remainder, some is absorbed by the atmosphere but most is absorbed by the Land and Oceans.

The earth's Surface becomes Warm and as a result emits **infrared radiation**.

What is INFRARED RADIATION : Solar energy is absorbed by the Earth's Surface and Warms it.. and is converted into Heat causing emissions of Long wave (infrared) radiation back to the atmosphere.

The Greenhouse Gases trap the infrared radiation, thus Warming the atmosphere.

However, Human activities are causing **Greenhouse Gas levels** in the atmosphere **to increase** and thus Causing in **GLOBAL TEMPERATURE**. This increase in mean Global Temperature **is called GLOBAL WARMING**.

More Heat means MORE ENERGY in the Atmosphere, which means more frequent or Severe extreme Weather events like Droughts, Storms and Floods. This **increasing temperatures** and extreme **weather events** is what is known as CLIMATE CHANGE..

DO YOU KNOW ?

GLOBAL TEMPERATURE rose by about **0.6 degree C** during the 20th century. About 0.4 degree C of this warming occurred in the last 35 years. **This Global Warming is causing the CLIMATE TO CHANGE**.

IS GLOBAL WARMING SAME AS OZONE DEPLETION ?

Global Warming is a Quite different Phenomenon, it is a human made problem, but this time it's due to increase in heat trapping Greenhouse gases in atmosphere from our **Industries, Homes and Vehicles**.

The **Ozone Layer** is a part of the Upper atmosphere that helps **SHIELD THE EARTH** from the Sun's most Harmful infrared rays.

A few decades ago, scientists found that some of the Chemicals used in Industries and Homes, such as CFCs, were finding their way into the Upper Atmosphere, reacting with the OZONE AND DESTROYING IT. Scientists were concerned that if this continued, it would thin the Vital Protective OZONE LAYER, leading to increased **SKIN CANCERS AND CROP DAMAGE.....**

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WHAT CAN WE DO TO MAKE A DIFFERENCE ?

MORE THAN 40% OF CARBON DIOXIDE EMISSIONS ARE THE DIRECT RESULT OF ACTIONS TAKEN BY INDIVIDUALS. Hence it is suggested that Every time we use Non-renewable Electricity, drive a Car or take a flight, we are producing CO₂, as all of these actions largely depend on fossil fuels. And every ton we Emit commits the World to more Warming.

SOME OF THE SIMPLE THINGS TO DO AS AN ACTION::

Use Less energy by Car pooling. Use Public Transport. Bike, Bus and Walk. Turn Off the TV or Computer when they are not use. Take Shorter baths. Heating water uses Energy. Plant a Tree. Use Solar Energy. Buy Organic and locally Grown vegetables and fruits. Reduce, Reuse, Recycle, Refuse and "R" Rupees also.... Use nature Light. Respect other living beings. Turn to Vegetarianism. Promote wind and Solar Energy devices can be use. Recycle. Develop Parks, Community Forests & Plantation Programmes. and many more at local level..... THINKMORE... THINK GLOBALLY.... ACT LOCALLY....

The Meeting was ended at 12.00 noon with conveying the THANKS to the principal of college.

TOTAL NO. OF Polytechnic STUDENTS PARTICIPATED : 65
TOTAL NO. OF LECTURERS ASSOCIATED : 3

Action Component – Tree Plantation “ Plants distributed to Students on 29-01-2009 :

After completion of the programme the society had distributed 50 plants to students to plant in the premises of college premises itself. Mr. Naga Prasad, A.E. had given in-charge to look after the plantation programme and guided to him for supervision over a period of time.

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**CLIMATE CHANGE - NATIONAL ENVIRONMENT AWARENESS CAMPAIGN
2008-09**

**Organized by
PANCHAVATI RURAL DEVELOPMENT SOCIETY (PRDS)
in association with
Deccan Development Society (DDS)
(Regional Resource Agency for N.E.A.C.) of
Ministry of Environment & Forests, New Delhi :**

PROGRAMME HELD ON **09-02-2009 (Morning) AT ZILLA PARISHAD GIRLS HIGH SCHOOL, PATNACHERU, Medak District:**

Before conducting the programme in school, the formal letters submitted on 04-02-2009 to Mrs.B. Radha Kumari, H.M.(In-charge) of Z.P. Girls High school, Patancheru, and met Mrs. A. Praveena, HM (In-charge cum National Green Corps Coordinator) of school and Sri G. Venkatesham, Science Teacher – Z.P. Boys High School and discussed about the programme on "**Climate Change & Security – Role of children**". After duly discussed the venue, time and programme date was fixed for 09-02-09 (morning & evening) at Z.P. Girls High School and Z.P. Boys High School respectively. **The proceedings of the awareness campaign are as follows :**

The programme is scheduled at 10.30 a.m. to 12.00 noon, but we could not able to reach the venue earlier before the 11.30 a.m. The meeting arrangements were done by the school teachers and children well in advance with assistance of vocational training teacher and PET teacher. The Children were gathered at the meeting place within school premises at 11.45 a.m. under the guidance of NGC coordinator. 250+ Girls are participated from 8th and 9th classes. The meeting was commenced at 11.45 a.m.

Sri P.V.Subba Rao, NEAC Convenor-DDS, Sri Udaykumar, Freelancer Environmentalist acted as a Resource Person, Mrs.B. Radha Kumari, H.M.(In-charge) of Z.P.High school, Patancheru, Mrs. A. Praveena, HM (In-charge cum National Green Corps Coordinator) **had invited to the dias** by Sri A. Muralidhar, Secretary of PRDS and had commenced the programme. Sri M. Gowrishanker, Accountant – DDS has also participated in the programme.

Sri Uday Kumar, Environmentalist has interacted with children by question and answer methodology. The questions related to plastics, deforestation, waste, weather and air related topics. The girls are enthusiastically answered. It was interacted that what are the activities are undertaken this year under National Green Corps programme. The girls are shown the gunny cloth bags prepared different sizes for the usage as model exclusively for carrying the Tiffin box in cloth bag instead plastic bags. It has given the impression that there is nothing to explain to their standard to tell about the present topic on climate change. Some suggestions were given on plastic management and need to practice regularly i.e. REDUCE, REUSE, RECYCLE AND REDUCE concepts.

Then Sri A. Muralidhar, Secretary – PRDS while speaking with the children it is explained that the basic concepts on Climate Change & Security was developed in Power Point and very much interested to show by Laser Projector. Due to sun light and the image is not clear and infrastructure facility is not permitted us to show the same. Hence, it is inevitable situation to deal the matter orally / lecture methodology. So, it is stressed that it is a very essential tool for development is that

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Listening, Speaking, Reading and Writing (LRW concepts). So appealed the children listen carefully.

The increase in Global Temperature will result in DIRECT and INDIRECT EFFECT ON ENVIRONMENT AND SOCIO ECONOMIC SECTORS. The frequency and impact on Extreme weather events like CYCLONE, STORMS, FLOODS, HEAT WAVES AND DROUGHTS WILL INCREASE. MOUNTAIN GLACIERS will sink further and the ARTIC ICE WILL GROW THINNER. MELTING OF GLACIERS and Polar Icecaps will increase the Water in SEAS. Expansion of SEA Water due to WARMING would rise the SEA LEVEL and this Would **SUBMERGE small islands** and COASTAL areas.

The Agriculture will be adversely affected in Some Regions by increased evaporation, Drier Soils and Prolonged Droughts while in other areas it will Suffer from increased infestation of PESTS, CROP DISEASES AND WEEDS.

Further it is requested Sri P.V.Subba Rao, NEAC Convenor to speak few sentences on this occasion. While speaking he highlighted the points are as follows :

HOW WILL CLIMATE CHANGE AFFECT US ?

The flooding of Coastal areas as a result of **SEA LEVEL RISE would LEAD to a LOSS of AGRICULTURAL LAND...** It would also leads to intrusion of SALT Water into Coastal aquifers which would in turn affect AGRICULTURAL PRODUCTION. THE IMPACT ON AGRICULTURE WILL EVENTUALLY IMPACT THE FLOOD AVAILABILITY.

Change in CLIMATE will impact the BIODIVERSITY AND ECO-SYSTEMS AS PLANTS AND ANIMALS WOULD BE FORCED TO MIGRATE TO KEEP UP WITH CLIMATE SHIFTS. Shifts in regional Climate would threaten many NATIONALS PARKS, WILD LIFE RESERVES AND CORAL REEFS AND THEREBY AFFECT THE RICH DIVERSITY OF LIFE THAT THEY HAVE. HUMAN HEALTH will also be affected directly and deaths due to Heat Waves and other extremes of Climatic conditions are some direct consequences.

Tropical diseases i.e. MALARIA, ENCEPHALITIS, YELLOW FEVER AND DENGUE FEVER could spread to the present temperate regions of the World. A World Health Organization study report estimate 150,000 people in developing countries are now dying each year from the effects of GLOBAL WARMING ranging from MALARIA AND MALNUTRITION to extremes of HEAT AND COLD AND FLOOD. It is also Clear that the effects of CLIMATE CHANGE CAN NOT BE SIMPLY REVERSED OR SWITCHED OFF. THE EFFECTS OF GLOBAL WARMING ARE PROJECTED TO CONTINUE FROM THE NEXT HUNDRED OF YEARS.... the already released into the atmosphere will not just DISAPPEAR. THEY WILL LINGER - SOME LIKE METHANE FOR DECADES, SOME LIKE CARBONDIOXIDE FOR HUNDREDS OF YEARS. AND SOME GASES LIKE PERFLUOROCARBONS, EVEN FOR THOUSANDS OF YEARS.

EVEN IF ALL EMISSIONS OF GREENHOUSE GASES CEASED TOMORROW, THE CLIMATE WOULD CONTINUE TO CHANGE, AND WITH IT ALL THE EFFECTS OF LIFE ON OUR PLANET. POWER ... 24%; LAND USE ...18%; INDUSTRY.. 14%; AGRICULTURE... 14%; TRANSPORT..14%; BUILDINGS.. 8%; OTHER RELATED ENGERGY...5%; WASTE... 3%; ENERGY EMISSIONS 58%; NON ENERGY EMISSIONS 42%:

While conclusion Some of the actions we can do particularly in the area of Industrial Pollution – Patancheru :

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Segregate Garbage. Encourage Bio-Fertilizers in Agriculture. Protect the Main Water Bodies. Use Compact Fluorescent Bulbs. Avoid Plastics Bags usage. Consume Less Waste-Less.

At last, Mrs.B. Radha Kumari, H.M.(In-charge) of Z.P.High school, Patancheru, Mrs. A. Praveena, HM (In-charge cum National Green Corps Coordinator) are appreciated the meeting. It is opinioned that this meeting had given them a boosting their efforts being implementing in NGC programmes. With this encourage of program they promised to implement the tree plantation programme through school children and requested to supply 100 plants to plant in their localities. Further it is communicated that the school was awarded 2nd prize in National NGC meeting.

DISTRIBUTION OF NUTRITION FOOD – LADDU & KHARA PREPARED BY DDS-ETHNIC – ORGNAIC FOOD PRODUCTION CENTRE :

The sweets and khara brought for the meeting exclusively to distribute girls as nutrition compliment. Teachers are appreciated the organic laddu as it appeared the home food .

DISTRIBUTION OF PAMPHLETS :

The pamphlet developed by DDS on the topic of "Climate Change and Global Warming scenario" was distributed to all children.

NEWS PAPER COVERAGE on 10-02-09 in Sakshi of the event :

The Sakshi & Praja Shakti local news reporters had visited the Z.P. Boys High School, Patancheru and collected the meeting contents of schools covered in Boys and Girls Schools. It is a great help from Sakshi and covered the programme contents on 10-2-2009 together programmes under Patancheru, Rural zone.

The meeting was concluded at 1.15 p.m. with a vote of thanks for all teachers and children.

Total No. of Students participated : 260 (8th & 9th class)

Total No. of teachers participated : 12

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PROGRAMME HELD ON 09-02-2009 (Evening) AT ZILLA PARISHAD BOYS HIGH SCHOOL, PATNACHERU, Medak District:

The programme is scheduled at 2.30 p.m. to 4.00 p.m.. As there is no much meeting arrangements were done by the school until we reach the school. Then we met Sri T. Narasimha Reddy H.M. and Sri P. Venkatesham (Craft Instructor) and Sri K. Ramulu, PET teacher since they are busy with their own schedules and further interaction it is decided to take only 8th class students for the meeting. The craft instructor escorted with us. The Children were gathered at the meeting place within class premises at 2.40 p.m. under the guidance of class teacher. 25 + Boys are participated from 8th class. Out of which only 1 girls in the class. The meeting was commenced by Sri Uday Kumar, Environmentalist – a Resource Person.

Sri Uday Kumar, Environmentalist has interacted with children by play game and question and answer methodology. The questions related to Natural Resources, Earth, Plants, Animals and air related topics. The boys are enthusiastically participated in a Web Game and played well. The activity took half an hour. Then it is exercised by game on Communication. The slip with some message was given each student asked to read and pass on the same to their friends (10 members). Finally, it is inquired from 1st student to 10th student. The message passed on is completely changed from original. Hence it is necessary to pass on the correct and effective manner always.. It was interacted that what are the activities are undertaken this year under National Green Corps programme. It is said that no programmes are actively involved by the children.

Then Sri A. Muralidhar, Secretary of PRDS had commenced the programme alone for 9th class students in another class room. He interacted with children about the importance of L.S.R.W. concepts. Describing the scenario of Patancheru – Industrial Pollution areas it is necessary and inevitable to raise number of plants in and around the areas to control air pollution and to have a fresh oxygen. It is highlighted that not to burn the plastic materials it leads to cancer diseases – lung problems. Sri M. Gowrishanker, Accountant – DDS has also participated in the programme. Distributed the pamphlets to all children and biscuits as nutrition food. **Sri P.V.Subba Rao, NEAC Convenor-DDS, Sri Udaykumar, Freelancer Environmentalist had observed the programme.** The meeting was concluded at 4.15 p.m. with a vote of thanks for all teachers and children.

Total No. of Students participated : 60 (8th & 9th class)
Total No. of teachers participated : 3

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PROGRAMME HELD ON **27-02-2009 AT GOVERNMENT HIGH SCHOOL,
YOUSUFGUDA CHECKPOST, Hyderabad:**

Before conducting the programme in school, the formal letter submitted to Mrs. Annamma, H.M. of Government High school, Yousufguda, Hyderabad on 26-02-2009 and met Sri Narsimha, National Green Corps Coordinator of school and discussed about the programme on "Climate Change & Security – Role of children". After duly discussed the venue, time and programme date was fixed for 27-02-09. **The proceedings of the awareness campaign are as follows :**

The Children were gathered at the school premises at 9.45 a.m. under the guidance of NGC coordinator. 250+ Girls and Boys are participated from 8th and 9th classes. The meeting was scheduled at 10.00 a.m. to 12.00 Noon. The **Smt. Annamma, H.M., Sri P.V.Subba Rao, NEAC Convenor-DDS, Sri Udaykumar, Freelancer Environmentalist had invited to the dias** and Sri A. Muralidhar, Secretary of PRDS had commenced the programme. Sri M. Gowrishanker, Accountant – DDS has also participated in the programme. Along with Mrs. Annamma, H.M. the other 2 teachers are attended to the Meeting.

Sri A. Muralidhar, Secretary – PRDS is explained the basic concept of the meeting and the programme contents on the topic of "Climate Change & Security – Role of children". While explaining it is elaborated the contents stating that the Climate change refers to the variation in the global climate over a period of time. There is a clear evidence to establish substantial variations in the earth's climate over geological time scales. In fact, for most part of our planet's existence, ice ages have alternated with inter-glacial periods. These changes were caused by geological processes or external forces such as the variations in the sunlight intensity. But in recent times, drastic rise in global temperature is perceived as a grave threat to the planet's survival. Human activities, rather than natural processes, have been identified as the major contributor to the changes in the climate – recorded since the early 1990s.

Causes of Climate Change :

Human actions began to have a warming effect on the earth's climate. Industrial societies with the advent of coal burning factories began releasing carbon dioxide and other green house gases like methane in to the atmosphere in the past century resulting in buildup of green house gases.

The major green house gases due to human activities are carbon dioxide, methane, nitrous oxide, chlorofluorocarbons and tropospheric ozone. Growth in science and technology in the last hundred years added up enormous amount of green house gases. The major sources of these greenhouse gases include fossil fuel combustion, deforestation, rice cultivation, livestock, coal mining and oil and gas extraction.

Then the session handed over to **Sri Uday kumar, Freelancer – Environmentalist as acted a Resource person. He interacted with children and discussed** and

explained the core activities of National Green Corps which is being implementing in their school. Girls and Boys were answered some of the questions related to water and drinking water. Children were suggested to drink pure water and healthy drinks. He suggested instead of taking coco-cola while in thrust, to have coconut water. The coco-cola cost is high and nothing available nutrients. Though the cost is same but in coconut available pure water and healthy for body in summer days to avoid sun-stroke etc. Further he suggested to use the cloth carry bags instead plastic and light weight carry bags. Plastic bags shall not be burning, it releases the poison in the air in turn the smoke effects the human health i.e. cancer.

Sri P.V. Subba Rao, NEAC Convenor conveyed thanks for the support extended from H.M. and NGC coordinator of Govt. High School. He explained by addressing the gathering of students that D.D.S. is implementing since 1993 onwards of N.E.A.C. programme under the support of Ministry of Environment & Forests, New Delhi and also DDS is acting as Regional Resource Agency for Andhra Pradesh. For the last 3 years it is acting for Northern Andhra Pradesh and part of Rayalaseema Districts in total covering 11 districts. Further he explained about DDS activities in general.

Sri A. Muralidhar, Secretary of PRDS has again spoken on the topic of **“Water resources – Availability in the World”** by showing the water ball and measuring the quantity in a table spoon. By showing the practical demonstration, the children were understood perfectly and in turn explained the same by one of student who is studying 9th class.

Mrs. Annamma, H.M. of Govt. School spoke on this occasion and appreciated that as it is necessary present days to under stand the need of action and guided to children to Conserve the Water and Save plants in and surrounding areas.

DISTRIBUTION OF PAMPHLETS :

The pamphlet developed by DDS on the topic of “Climate Change and Global Warming scenario” was distributed to all children.

NEWS PAPER COVERAGE on 28-02-09 in EENADU of the event :

Mr. D. Venugopal, Eenadu Reporter of Ameerpet area has attended the meeting and noted the meeting contents and took the photographs. It is a great help from him and he covered the programme contents with photographs under ameerpet zone area in eenadu.

Total No. of Students participated : 250 (8th & 9th class)

Total No. of teachers participated : 2

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ACTION COMPONENT-TREE PLANTATION:PLANTS DISTRIBUTED TO STUDENTS 65 Nos. at Z.P.GIRLS HIGH SCHOOL, PATANCHERU ON 28-02-2009 in Association with Deccan Development Society, Hyderabad :

Under action component the society planned to distribute the plants i.e. Tulasi, Rose, Mango, Neem, Alevora etc. to the school students. The ideas is each one plant one tree in their surroundings. Hence the society and DDS jointly purchased the plants. In this connection the society had contacted the Z.P. Girls and Boys High schools in Patancheru and fixed the tree plantation programme on 28-2-2009. Accordingly a mini meeting at 12.00 noon within their school premises arranged and distributed to each one plant and to teachers as mentioned above varieties. The students and teachers are felt very happy for the event. They promised to protect and grow the plants with personal care. At the end of the meeting it is conveyed thanks to Mrs. A. praveena, H.M. and concluded the meeting at 1.00 p.m.

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