



Aims India

SCHOOL TEACHING ASSISTANCE PROJECT-1 Monthly Report

Project no: 2

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PROJECT TITLE: School Teaching Assistance Project

Report:

Our Aims School Teaching Assistance project is going on well in our all schools. 17 days were the months of working days. Our teachers are taking special care to improve educational skills and other activity for our poor students in their schools as regularly. Our new teacher T. Josephine Punitha is conducting evening study classes in their schools (Government middle school, Near Register office, Colachel) as usually. Poor students are studying in government schools only. So our project is going in government school only. Now we are working in 15 schools in this project. Two teachers are working in GMS Thirivithancodu now.

We (Mr.Deejo, Nasrin begam &I) had conducted the monthly planning meeting in my home on 01/10/2014. In that day we had planned to conduct our work as usually. Based upon our monthly planning, ecology training were conducted in our all school More than 1800 students were attending in the Ecology training. We are continuing our work in our schools as well as possible.

The training subjects are listed below.

The title of the training is Air pollution.

1. What is Air pollution?

When a harmful or poisonous substance is introduced into the air, this is called air pollution. Air pollution is basically harmful chemicals in our atmosphere. Air Pollution is anything that goes into the air that is harmful. Most air pollution is manmade. The largest contributor to air pollution is the burning of fossil fuels such as gas and coal.

2. Natural pollution

Natural pollution is just windblown dust, pollen, fog, and other natural forms.

3. people pollution

People pollution is the main concern and most serious form. Most of people pollution is caused by industry, cars, trucks, and airplanes. The residential causes are automobile emissions and forest fires. Industrial causes are those such as factory emissions and the burning of fossil fuels. One residential cause is the emissions of automobiles. This is probably the most harmful cause. People have driven automobiles every day to get from one place to another. If automobiles did not exist, the air would be cleaner. But the luxury of being able to travel long distances in short periods would be gone. This is a problem because people need to go places, but automobile emissions are still harmful to the environment.

Major primary pollutants produced by human activity include:

- Sulphur oxides (SO_x) - especially sulfur dioxide, a chemical compound with the formula SO_2 . SO_2 is produced by volcanoes and in various industrial processes. Since coal and petroleum often contain sulfur compounds, their combustion generates sulfur dioxide. Further oxidation of SO_2 , usually in the presence of a catalyst such as NO_2 , forms H_2SO_4 , and thus acid rain.[2] This is one of the causes for concern over the environmental impact of the use of these fuels as power sources.
- Nitrogen oxides (NO_x) - especially nitrogen dioxide are emitted from high temperature combustion, and are also produced naturally during thunderstorms by electrical discharge. Can be seen as the brown haze dome above or plume

- downwind of cities. Nitrogen dioxide is the chemical compound with the formula NO_2 . It is one of the several nitrogen oxides. This reddish-brown toxic gas has a characteristic sharp, biting odor. NO_2 is one of the most prominent air pollutants.
- Carbon monoxide (CO)- is a color less, odorless, non-irritating but very poisonous gas. It is a product by incomplete combustion of fuel such as natural gas, coal or wood. Vehicular exhaust is a major source of carbon monoxide.
 - Carbon dioxide (CO_2) - a color less, odorless, non-toxic greenhouse gas also associated with ocean acidification, emitted from sources such as combustion, cement production, and respiration. It is otherwise recycled in the atmosphere in the carbon cycle.
 - Volatile organic compounds - VOCs are an important outdoor air pollutant. In this field they are often divided into the separate categories of methane (CH_4) and non-methane (NMVOCs). Methane is an extremely efficient greenhouse gas which contributes to enhance global warming. Other hydrocarbon VOCs are also significant greenhouse gases via their role in creating ozone and in prolonging the life of methane in the atmosphere, although the effect varies depending on local air quality. Within the NMVOCs, the aromatic compounds benzene, toluene and xylene are suspected carcinogens and may lead to leukemia through prolonged exposure. 1,3-butadiene is another dangerous compound which is often associated with industrial uses.
 - Atmospheric particulate matter - Particulates, alternatively referred to as particulate matter (PM) or fine particles, are tiny particles of solid or liquid suspended in a gas. In contrast, aerosol refers to particles and the gas together. Sources of particulate matter can be manmade or natural. Some particulates occur naturally, originating from volcanoes, dust storms, forest and grassland fires, living vegetation, and sea spray. Human activities, such as the burning of fossil fuels in vehicles, power plants and various industrial processes also generate significant amounts of aerosols. Averaged over the globe, anthropogenic aerosols—those made by human activities—currently account for about 10 percent of the total amount of aerosols in our atmosphere. Increased levels of fine

particles in the air are linked to health hazards such as heart disease,^[3] altered lung function and lung cancer.

- Persistent free radicals connected to airborne fine particles could cause cardiopulmonary disease.
- Toxic metals, such as lead, cadmium and copper.
- Chlorofluorocarbons (CFCs) - harmful to the ozone layer emitted from products currently banned from use.
- Ammonia (NH₃) - emitted from agricultural processes. Ammonia is a compound with the formula NH₃. It is normally encountered as a gas with a characteristic pungent odor. Ammonia contributes significantly to the nutritional needs of terrestrial organisms by serving as a precursor to foodstuffs and fertilizers. Ammonia, either directly or indirectly, is also a building block for the synthesis of many pharmaceuticals. Although in wide use, ammonia is both caustic and hazardous.
- Odors — such as from garbage, sewage, and industrial processes
- Radioactive pollutants - produced by nuclear explosions, nuclear events, war explosives, and natural processes such as the radioactive decay of radon.

Effects on children (Cities around the world with high exposure to air pollutants have the possibility of children living within them to develop asthma, pneumonia and other lower respiratory infections as well as a low initial birth rate)

Reduction efforts

1. At Home

- Conserve energy - turn off appliances and lights when you leave the room.
- Recycle paper, plastic, glass bottles, cardboard, and aluminum cans. (This conserves energy and reduces production emissions.)
- Keep woodstoves and fireplaces well maintained.

- Plant deciduous trees in locations around your home to provide shade in the summer, but to allow light in the winter.
- Buy green electricity-produced by low-or even zero-pollution facilities.
- Connect your outdoor lights to a timer or use solar lighting.
- Wash clothes with warm or cold water instead of hot.
- Lower the thermostat on your water heater to 120F.
- Use low-VOC or water-based paints, stains, finishes, and paint strippers.
- Test your home for radon-a dangerous, radioactive gas that is odorless and tasteless. If the test shows elevated levels of radon, the problem can be fixed cost effectively.
- Choose not to smoke in your home, especially if you have children. If you or your visitors must smoke, then smoke outside.

4. Buy Smart

- Buy ENERGY STAR products, including energy efficient lighting and appliances.
- Choose efficient, low-polluting models of vehicles.
- Choose products that have less packaging and are reusable.
- Shop with a canvas bag instead of using paper and plastic bags.
- Buy rechargeable batteries for devices used frequently.

5. Drive Wise

Plan your trips. Save gasoline and reduce air pollution.

- Keep tires properly inflated and aligned.
- In the summertime, fill gas tank during cooler evening hours to cut down on evaporation. Avoid spilling gas and don't "top off" the tank. Replace gas tank cap tightly.

- Avoid waiting in long drive-thru lines, for example, at fast-food restaurants or banks. Park your car and go in.
- When possible, use public transportation, walk, or ride a bike.
- Get regular engine tune ups and car maintenance checks (especially for the spark plugs).
- Use energy-conserving (EC) grade motor oil.
- Ask your employer to consider flexible work schedules or telecommuting.
- Report smoking vehicles to your local air agency.
- Join a carpool or vanpool to get to work.

6. For Your Health

- Check daily air quality forecasts, which tell how clean or polluted your air is, and the associated health concerns.
- Remove indoor asthma triggers from your home and avoid outdoor triggers in order to effectively control your asthma.
- Minimize your sun exposure. Wear sun block and UV protection sunglasses.

Control devices and planning.

Common control devices for gaseous and vapour pollutants include:

- Thermal oxidizers,
- Catalytic reactors,
- Carbon absorbers,
- Absorption towers, and
- Bio filters.

Common Control Devices	Pollutants	Examples Where Used
Packed towers, spray chambers, venture scrubbers	Gases, vapors, sulfur oxides, corrosive acidic or basic gas streams, solid particles, liquid droplets	Asphalt and concrete batch plants; coal-burning power plants; facilities that emit sulfur oxides, hydrogen sulfide, hydrogen chloride, ammonia, and other gases

		that can be absorbed into water and neutralized with the appropriate reagent
Carbon absorbers	Vapor-phase volatile organic compounds (VOCs), hazardous air pollutants (HAPs)	Soil remediation facilities, oil refineries, steel mills, printers, wastewater treatment plants
Fabric filters or bag houses	Particulate matter (PM)	Asphalt and concrete batch plants, steel mills, foundries, fertilizer plants, and other industrial processes
Catalytic reactors, catalysts	VOCs, gases	Landfills, oil refineries, printing or paint shops
Cyclones	Large PM	Woodworking shops, pharmaceuticals, cotton gins, rock crushers, cement plants
Electrostatic precipitators (ESPs)	PM	Power plants, steel and paper mills, smelters, cement plants, oil refineries
Incinerators, thermal oxidizers,	VOCs, gases, fumes, hazardous organics, odors, PM	Soil contaminated with gasoline, landfills, crematories, inks from graphic arts production and printing, can and coil plants, hazardous waste disposal
Bio filters	VOCs, odors, hydrogen sulfide (H ₂ S), organic sulfides	Wastewater treatment plants, industrial processes

Schools Details are listed below:

Center: 1

Government Primary school

Main Road, near check Post

Kazhiyakkavilai , Kanyakumari district

Name of H.M	P. Sathiya Raj
Paid Teachers	3(Including H.M)
Name of Unpaid teachers	D. Vinoja, D.Ted
Total Teachers of the school	4
Name of Aims India teacher	D. Vinoja
Teaching Subjects	Tamil, Malayalam, English, Mathematics, Science and social studies
Working Days	17
Working Hour	119
Total Number of students	87

Our teacher D. Vinoja is also taking special care to improve the students' educational skills. Malayalam is one of the school subjects in this school. I have visited this school 08/10/2014. Ecology training was conducted on that day. 85 students participated in the training.

Center: 2
Government Girls Primary school
Near Anna Statue
Colachel, Kanyakumari district
Pin 629 251

Name of H.M	Mary Joice
Paid Teachers	2(Including H.M)
Name of Unpaid teachers	E. Abisha Rojini
Total Teachers of the school	3
Name of Aims India teacher	E. Abisha Rojini B.E (ece)
Teaching Subjects	Tamil, English, Mathematics, Science and social studies
Working Days	17
Working Hour	119
Total Number of students	86

Our teacher **E. Abisha Rojini** is also working well in this school regularly. She is also taking special care to improve the students' educational skills for poor students. I have visited this school **09/10/2014**. Ecology training was conducted on that day. 84 students participated in the training.

Center 3
Government middle school
Near Register office
Colachel p o
Kanyakumari district
Pin 629 251

Name of H.M	M. Bishi
Paid Teachers	6(Including H.M)
Name of Unpaid teachers	T.Josephin Punitha
Total Teachers of the school	7
Name of Aims India teacher	T.Josephin Punitha
Teaching Subjects	Tamil, English, Mathematics, Science and social studies
Working Days	17
Working Hour	136(17*8)
Total Number of students	193

Our teacher T.Josephin Punitha is working well in this school regularly. She is conducting evening study classes to improve the students' educational skills for needy students regularly. I visited this school on 10/10/2014. Ecology training was conducted on that day. 127students participated in the Training.

**4. Government Primary school
Thalakulam
Thalakkulam p.o
Near Monday market
Kanyakumari District**

Name of H.M	M. Vijaya Kumari
Paid Teachers	3(Including H.M)
Name of Unpaid teachers	S. Vimal , M.A
Total Teachers of the school	4
Name of Aims India teacher	S. Vimal , M.A
Teaching Subjects	Tamil, English, Mathematics, Science and social studies
Working Days	17
Working Hour	119
Total Number of students	113

Our teacher **S. S. Vimal , M.A** is working well in this school regularly. Only Poor students are studying in this. I visited this school on **13/10/2014**. Ecology training was conducted on that day .77students participated in the Training.

Center 5
Government M.V. Primary school
Poottetty, Poottetty P.O
Karunkal,
Kanyakumari District
Pin 629 157

Name of H.M	P.Paulraj
Paid Teachers	2(Including H.M)
Name of Unpaid teachers	R.Sanny mol B.A, B.ED N.Kalaiarasi
Total Teachers of the school	4
Name of Aims India teacher	R.Sanny mol B.A, B.ED
Teaching Subjects	Tamil, English, Mathematics, Science and social studies
Working Days	17
Working Hour	119
Total Number of students	79

Our teacher R.Sanny mol B.A, B.ED is working well. Our new Headmaster Mr.P.PaulRaj is cooperating well with us. I have visited this school **14/10/2014**. Ecology training was conducted on that day. 54 students participated in the training.

Center 6

Government Primary school

Sasthankari,

Near colachel.

Pin 629251

Name of H.M	V.Sahaya Rani
Paid Teachers	2 (Including H.M)
Name of Unpaid teachers	M.Rekha , B.Sc. , B.ED
Total Teachers of the school	3
Name of Aims India teacher	M.Rekha , B.Sc. , B.ED
Teaching Subjects	Tamil, English, Mathematics, Science and social studies
Working Days	17
Working Hour	119
Total Number of students	62

Our teachers **M.Rekha , B.Sc. , B.ED** is working well. Headmistress **V.Sahaya Rani** is cooperating well with us. I have visited this school on **15/10/2014**. Ecology training was conducted on that day. 59 students participated in the training.

Center 7

Government middle school

Chettiyar madam,

Near Manday market

K.K.District

Name of H.M	N.Dennis
Paid Teachers	3(Including H.M)
Name of Unpaid teachers	S.Siji T.T .C C.N. Athulya T.T.C
Total Teachers of the school	5
Name of Aims India teacher	C.N. Athulya T.T.C
Teaching Subjects	Tamil, English, Mathematics, Science and social studies
Working Days	17
Working Hour	119
Total Number of students	136

Our teacher **C.N. Athulya T.T.C** is working well. Headmaster N. Dennis is cooperating well with us. I have visited this school on **17/10/2014**. Ecology training was conducted on that day. 84students participated in the training.

Center 8
Government middle school
Melkarai
Neyyoor p.o
Pin 629802

Name of H.M	M. Glory
Paid Teachers	3 (Including H.M)
Name of Unpaid teachers	P. Pratheeba B.A ,D.Ted S.Amutha M.A, B.ED
Total Teachers of the school	5
Name of Aims India teacher	P. Pratheeba B.A ,D.Ted
Teaching Subjects	Tamil, English, Mathematics, Science and social studies
Working Days	17
Working Hour	119
Total Number of students	156

Our teacher **P. Pratheeba B.A, D.Ted** is working well. Headmistress M. Glory is cooperating with us. I have visited this school on **20/10/2014**. Ecology training was conducted on that day .112 students participated in the training.

Center 9& 10**Government middle school****Thiruvithankodu****K.k Dist**

Name of H.M	A.Justin Raj
Paid Teachers	4 (Including H.M)
Name of Unpaid teachers	T.Ani Shree, B.Sc, N. Sri Vijithra, B.Sc, B.Ed.
Total Teachers of the school	5
Name of Aims India teacher	T.Ani Shree, B.Sc, N.Sri Vijithra,B.Sc,B.Ed.
Teaching Subjects	Tamil, English, Mathematics, Science and social studies
Working Days	17
Working Hour	119
Total Number of students	156

Our teacher T.Anu Shree and N.Sri Vijitra are working well. Headmaster A.Justin is cooperating well with us. A small Herbal Park is situated in this school (Named Aims India Herbal Park).One of our aims teacher is maintaining this park. . I visited this school on **21/10/2014**. Ecology training was conducted on that day.116 students participated in the training.

Center 11
Government Middle school
Thattanvilai, Near Theruvukadai
Karunkal p.o
Pin 629802

Name of H.M	J. Sajilin Suji
Paid Teachers	5(including H.M)
Name of Unpaid teachers	S. Jane Prabha
Total Teachers of the school	2
Name of Aims India teacher	S. Jane Prabha
Teaching Subjects	Tamil, English, Mathematics, Science and social studies
Working Days	17
Working Hour	119
Total Number of students	121

Our teacher **S. Jane Prabha** is working well. Headmistress **J. Sajilin Suji** is cooperating well with us. I have visited this school on **23/10/2014**. Ecology training was conducted on that day. 59 students participated in the training.

Center 12
Government L.M. Primary school
Theruvukkadai ,
Near Pottety
Pin 629217

Name of H.M	Jemila Josebel
Paid Teachers	2(Including H.M)
Name of Unpaid teachers	S. Prema Latha,B.Sc ,B.ED
Total Teachers of the school	2
Name of Aims India teacher	S. Prema Latha,B.Sc ,B.ED
Teaching Subjects	Tamil, English, Mathematics, Science and social studies
Working Days	17
Working Hour	119
Total Number of students	55

Our teacher **S. Prema Latha,B.Sc ,B.ED**, is working well. The Headmistress Jemila Josebel is cooperating with us. I have visited this school on **24/10/2014** in this month. Ecology training was conducted on that day. 51 students participated in the training.

Center 13

Government middle school

Pillayar vilai

Ellu vilai Iruppu

Near Rajakka mankalam

Pin 629582

Name of H.M	Nazeera Begam
Paid Teachers	6(Including H.M)
Name of Unpaid teachers	M.Rathika, TTC
Total Teachers of the school	7
Name of Aims India teacher	M.Rathika, TTC
Teaching Subjects	Tamil, English, Mathematics, Science and social studies
Working Days	17
Working Hour	119
Total Number of students	156

Our teacher M,Rathika is also working well. Headmaster **Nazeera Begam** is cooperating with us. I have visited this school **27/10/2014**. Ecology training was conducted on that day. 96 students participated in the training.

Center 14
Government Primary school
Chenam vilai ,
Pethel puram p o

Name of H.M	M. Therasammal
Paid Teachers	2(Including H.M)
Name of Unpaid teachers	B. Renjani Silaja T.T.C
Total Teachers of the school	5
Name of Aims India teacher	B. Renjani Silaja T.T.C
Teaching Subjects	Tamil, English, Mathematics, Science and social studies
Working Days	17
Working Hour	119
Total Number of students	43

Our teacher B. Renjani Silaja is working well. New Headmistress M. Therasammal is cooperating with us. I have visited this school on **28/10/2014** in this month. Ecology training was conducted on that day. 42students participated in the training.

Center 15
Government Middle school
Vattavilai ,
Edalakudi po
Nagercoil.2

Name of H.M	N.Jessy
Paid Teachers	3(Including H.M)
Name of Unpaid teachers	S. Jeyashree D.Ted
Total Teachers of the school	4
Name of Aims India teacher	S. Jeyashree D.Ted
Teaching Subjects	Tamil, English, Mathematics, Science and social studies
Working Days	17
Working Hour	119
Total Number of students	153

Our teacher S. Jeyashree D.Ted is working well. Headmistress N. Jessy is cooperating with us. I have visited this school on **29/10/2014**.Ecology training was conducted on that day. 76 students participated in the training.

Center 16
Government Primary school
Main Road, Kallukuttam,
Pin 629810

Name of H.M	E.Hepzi bai
Paid Teachers	3(Including H.M)
Name of Unpaid teachers	S. Jeychandra , B.Com T.Melba, M.A,B.Ed
Total Teachers of the school	5
Name of Aims India teacher	S. Jeychandra , B.Com
Teaching Subjects	Tamil, English, Mathematics, Science and social studies
Working days	17
Working hour	119
Total Number of students	103

Our teacher **S.Jeychandra , B.Com** is working well. Headmistress **E. Hepzi bai** is cooperating with us. . I have visited this school on **30/10/2014**. Ecology training was conducted on that day. 88 students participated in the training.

Reported by
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