TOWARDS A GREENER BANGLADESH

Zakeria Shirazi

The importance of forestry, unfortunately, has not yet received proportionate support in developmental priorities and the planning perspective. Not only environmentally but in every other sense the future of this country largely lies in making it greener.

F there can ever be a single, simple and omnibus answer to the growing complex environmental issues, it is - Forestry. Forests absorb air pollution and purify the atmosphere. Forests influence many ecological factors such as rainfall, soil erosion, soil moisture, flow of rivers and maintain balance of the environment. Forests help maintain and moisture in all scasons.

Besides sustaining the ecology, forests contribute a great deal to the economy. In Bangladesh forests contribute 4.1 per cent to GDP. Sixty six per cent of the country's energy consumption come from biomass sources, of which fuelwood accounts for 14.3 per cent and tree residue 2.7 per cent. Most natural resources are exhaustible but forest resource is renewable.

Annually one fakh people work in the Sunderbans alone. Directly and indirectly one million people draw their sustenance from forests.

The importance of forestry, unfortunately, has not yet received proportionate support in developmental priorities and the planning perspective. ideally a country should have 30 per cent of its area under

forest for the safety of environment and for supply of timber, firewood and other items. An overpopulated country should have a still larger proportion of its area under forest.

In overpopulated Bangladesh forest area is not only small but gradually declining. At present national forests managed by Forest Department cover an area of 1.46 million hectares or 10.15 per cent of the total land area. Another 0.27 million hectares (1.88%) am under homestead forests scattered throughout the country. There is a sizeable area measuring 0.73 million hectares (5.06%) which is listed as unclassed state forests, devoid of trees but with great potential for af-

The reasons for decline of forests are mainly three: encroachment, transfer of forest land to different organisations and bad management and stealing. It has been estimated that from 1960 to 1989 forest areas measuring 76.576 hectares have been lost to encroachment while another 54,668 hectares have been transfered to different organi-

An export connected with the National conservation

strategy told this writer that there is not the least possibility of the forest land already land already transferred being recovered; all that can be done is to stop further transfer. Demarcation of forest land is at present unclear and must be made more definite and inviolable, he said.

The forests of Bangladesh can be classed under the following four categories:

1. Tropical envergreen 2. Tropical semi-evergreen 3. Moist deciduous or Sal

4. mangrove/Tidal forest Numbers 1 and 2 which are often indistinguishable are hill forests and No. 4 is the natural forest of the Sunderbans.

Under the forest three Five-Year Plans a total area of 2.34 lakh hectares was brought under forest plantation. The Draft Fourth Plan is under implementations. Twenty six forestry Development projects have been included in the plan. In the mean time the government has taken up the task of preparing a Forestry Sector Master Plan which will take due note of environmental problems.

Apart from expansion of forest areas conservation and management technics are to

be improved. Experts are of the opinion that the Forests Act of 1927 was updated in 1989 to provide it with more teeth. Some other legislative measures are also necessary. What is more important is the implementation of the law. The Brick burning control Act (Act 8 of 1989) is in operation

but this has not stopped the burning of loss in brick kilns. Act gives so much power to Upazila chairmen to make exceptions that it has almost become meaningless.

Conservationists are similarly dissatisfied with the Forest policy of 1979 which they say are of a very general nature and does not seem to have any definite goal

Wood substitution as a government policy is yet to take effect. Recently a trend is being noticed in private establishments to prefer steel furni ture but the motive is more economical than environmen

government offices has be come highly imperative. Will that run counter to the inter est of BFIDC which supplies wooden furniture to Government offices? Not necessartly, said a conservationist,

Partial wood substitution is

For a country like Bangladesh with a population burgeoning at an undesirable speed, more trees are needed to ensure a better environment.

than one-fourth of the total re-

Change in living habits can also go some way towards economising wood and fuel use. The improved fuel-saving stove devised by Bangladeshi scientists has gained very limited acceptability among the rural people. This stove saves fuel upto 30 per cent. In many countries matchsticks are made of synthetic material. An environmentalist deplored that at present there is no coordination between the industries and the ministry of environment. Nor is there much coor

dination between Government

since BFIDC supplies not more agencies and the NGOs whose hand. role in social forestry is vital.

> The technic of wood extraction followed in this country causes unnecessary wood loss. Trees are felled at a height of 1.5 meter. It has also been estimated that crude method of sawing causes wood loss of another 10 to 25 per cent. Felling of trees under contract inside the forest is done by the contractors' hired lumbermen. This creates oppor tunity for over extraction and stealing. It has been suggested that Forest Department officials should themselves do the felling and the contractors' men should not have a free

In the Sunderbans the sun-

dri trees (technically called Heritiera fomes) are dying. A series of investigations have failed to find any fungi. It is thought that salinity is the cause. The trees are to be

Permanent forest covers must be maintained in the catchment areas of rivers and treams. especially in Chittagong, Chittagong Hill Tracts, Cox's Bazar and Sylhet to prevent river erosion and maintain the ecological equilibrium. To help the growth of homestead forests which vary in size for 0.02 to 0.05

hectares, more extension workers should be deployed. The upazila forestry project has shown little result and so special emphasis must be laid on successful implementation of this project.

Star photo

Land in this country being in short supply, forests are to be developed in blank and de nuded areas in the national forest, on fringe lands such as roads, highways, embankments, riverbanks, and in the unclassed state forests of Chittagong hill tracts. Not only environmentally but in every other sense the future of this country largely lies in making it greener.

HE apparent chemical poisoning of Bangkok slum dweliers in the wake of massive chemical fire nearby underscores pollution and overcrowding problems that have been neglected in some of Asia's largest cities. In mid-March a fire ripped

through the Klong Toey slum here, leaving thousands homeless. Cannisters of toxic chemicals exploded and created a toxic cloud that drifted overhead like a giant deathtrap. Men, children and pregnant

mothers, who inhaled the fumes, have shown alarming concentrations of chemicals in their blood. Wounds are not healing, skin is peeling off and babtes have stopped moving in the womb, according to recent

Bangkok's leading advocate for sum-dwellers. Prateco Hata, estimates that 30,000 people-or half the total population living in the affected communities-have been stricken with some atlment.

Such a catastrophe implies human negligence at the highest level, though authorities have been slow to prosecute or even point the finger.

But the ramifications go further. The incident proves once again that governments in the region-this time it just happens to be Thailand-are not taking seriously the UN's call to integrate infrastructure development and environmental protection.

Nor has the basic principle of "polluter pays" been applied in this case. It appears that victims of the disaster will be left beating up against a bureaucratic wall if they seek

compensation and health care. The concept of environmental protection and assessment has been paid much lip service in recent months by Asian government officials. In February, experts and officials affirmed their commitment to a regional environment strategy that would give them pri-

"You have to be a bit skeptical of meetings of experts when you look at what is happening on the ground," said an official of the UN Development Programme (UNDP) in Bangkok. "The experts al agree that something needs to be done. Then there is Thailand. Who is responsible here?"

Overcrowding, chemical hazards and pollution grow worse every day in cities like Bangkok.

The recent economic and social survey for the region estimates that from a quarter to two-fifths of the urban population in Asia and the Pacific live "in evercrowded squatter settlements, city tenements. or on pavements without constructed shelter."

Agencies and organisations that could take effective action on behalf of the slum-dwellers are left powerless in Thailand due to the lack of democratic institutions. Environmenta groups in Thailand have had their voices muted since the February coup d'etat.

Citizens have been left in the lurch about the health hazard they now face. Slum dwellers stood ignorantly watching the fire as they inhaled toxic fumes when simple warning could have saved them from the symp-

Population Crunch Squeezes Squatters in Tighter Quarters

by Philip Gorton

The quality of life for many improved inside airconditioned offices and homes, but worsened considerably once they stepped outside.

toms they are now suffering

A local newspaper condemned the government's inaction saying, "most outrageously of all no comprehensive list of the chemicals released into the atmosphere by the fire, or the symptoms that may be caused by exposure to them, has been made public."

Though Thailand, the Philippines and Indonesia have been able to provide their citizens with basic health care and education, safe water and safe air are in short supply. Many experts say they are disappear-

The water and air are safer in rural areas than in urban areas in both Manila and Bangkok, according to the United Nations' Economic and Social Survey of 1990 released in March. With more people drawn to urban areas for jobs and education, the situation promises to grow worse.

"If we are going to have decent urban development, we certainly don't want other towns to come up like Bangkok," said a UNDP officer in Bangkok.

The quality of life for many Bangkokians has improved inside their air-conditioned offices and homes, but worsened considerably once they stepped outside the front door.

"It is a hazard to go outside," said the official. "Bangkok was a much more pleasant city to live in 50 years

The city once had trees and clean canals that flushed into the Chao Phraya River. Today. most canals have been filled in leaving stagnant, filthy water. Trees have been sacrificed to road expansion that still cannot contain the millions of cars that stand at a virtual standstill everyday at rush hour.

Bangkok for a taste of the "good life" find that they must take up residence in small shacks set on waters polluted with human excrement. The homes are a fire hazard and a breeding ground for rats.

leading efforts to upgrade the city's slums. But her efforts often appear futile as the population crunch and real estate boom are squeezing slum dwellers into increasingly tighter living quarters. Squatters without guaran-

grade their living quarters.

landowners. sharing". Often what it means

highrise to go up next door. assisted are high-minded.

Rural folk who come to

Activist Prateep Hata is

tees that they can remain on land, have on incentive to up-The UNDP is helping slum

leaders in their efforts to work out compromises with wealthy The concept is called "land

is moving more people into closer proximity and allowing a The projects that are being

Depthnews.

REFUGEES ACCUSED OF 'SHAVING THE LAND'

by Berhane Woldegabriel

KHARTOUM, SUDAN: Refu gees have become an ecological scapegoat for the Sudanese government. They are accused of destroying the environment - and for most of the other tills which beset the country.

The Government-owned Radio Omdurman recently claimed refugees were responsible for widespread deforestation, unemployment, inflation scarcity of essential commodities, arms and liquor smuggling, prostitution and corrup-

"The refugees have shaved our land," say the East Sudan authorities, and a government study of Kassala, a town bordering Eritrea, also scapegoats refugees.

Refugee representatives believe that inappropriate agricultural policies and laws are to blame for environmental degradation. They say deforestation is a result of largescale mechanised commercial farming for cash crops. But their voices are not heard on

The United Nations High Commissioner for Refugees (UNHCR) says there are 940,000 refugees in the country. They have fled from neighbouring states, across borders that are to big to control. Sudan, Africa's largest country with a population of 25 mil-

lion, has nine neighbours, all of

the state-owned media.

which suffer political instability and economic hardship. The majority of refugees come from Eritrea and elsewhere in Ethiopia, others from Chad and Uganda. Libyans and Palestinians sought refugee during previous administrations and refugees from the

the late 1950s. Since the fall of Colonel Mengistu's regime in Ethiopia in June and the apparent independence of Er crea, another 150,000 refugees have crossed into Sudan.

then Belgian Congo settled in

southern Sudan as far back as

The burden on Sudan has been considerable, and for

refugees has put Western governments to shame. But recently the government has been financially penalised by Western donors for its support for Iraq and for its continuation of the long-running civil war in the South. The Sudanese response has

years its open-door policy to

been to try and prompt the international community into sharing the costs of looking after the refugees by inflating refugee numbers to two million and blaming them for destroying Sudan's environment through deforestation, contributing to deforestation and drought.

But refugees were encouraged to settle near the borders of their own countries, which often happened to be areas containing forests.

They build their huts and compounds from wood and grass, which need renewal every few years. In the baking sun of Sudan the dry huts are susceptible to fire, even from a

small spark from a traditional stove. However, most Sudanese also build with wood and grass.

The refugees depend on

charcoal for fuel - but so does Sudan's urban elite, because of the unreliability of gas and electricity services in towns. A refugee representative in

Khartoum says: "The only time we use more wood than our Sudanese brothers is when we take a long time we use more wood than our Sudanese brothers is when we take a long time cooking the extrahard beans we receive from UNHCR and the World Food Programme!"

About 70 per cent of the refugees are, in the words of the UNHCR, *spontaneously settled": they live outside the official settlements, unassisted by UNHCR or the government. They face enormous difficulties

of survival, especially at a time when the country is threatened with famine. In some of the 40 settlements and reception camps

POLLUTION PROTEST THAT LED TO WAR

ARAWA, Bougainville: Rimmed by the misty jungles of the Panguna mountains, the Bougainville copper mine lies dormant, like a vast dried-out tropical ulcer, three kilometres wide. The only sound comes from workshops as members of the Bougainville Revolutionary Army (BRA) turn out rifles using water pipes for barrels.

The mine once provided Papua New Guinea with 17 per cent of its government revenues and 45 per cent of its foreign exchange. It also provided the 160,000 people on the island of Bougainville with one of the highest standards of living in the Pacific. But in May 1989 the mine was forced to close: the BRA's stx-month campaign of blowing up the pylons had succeeded.

The Bougainville mining agreement was negotiated by Canberra six years before Australia granted independence to PNG. It gave 20 per cent ownership to PNG, 26 per cent to private Australian investors and 54 per cent to Conzinc Rio Tinto of Australia which is 49 per cent owned by Britain's Rio Tinto Zinc, the biggest mining company in the

The agreement was designed to help finance development in the newly independent PNG. But Bougainvillians were not prepared to fund this growth at their own environmental and social cost.

Traditional landowners were dissatisfied with the level of compensation payments from Bougainville Copper and unhappy about the pollution caused by the mine. The River

Jaba became a mud bath and the fish caught in the Empress Augusta Bay where the Jaba disgorges were found to be ulcerated. Villagers had to be moved from their homes. Even the local delicacy, large 'flying fox" bats, had flown away.

In early 1989 PNC sent 1,600 troops to quell the rebellion which resulted from the dissatisfactions. They were forced to withdraw one year later. By then the secessionist movement, which developed in the 1960s, had taken on a military aspect and 39-year-old Francis Ona had declared him self president of the republic of Bougainville. Now BRA troops await a possible second

Even Ona refuses to say if the mine will ever work again. The few mine buildings which escaped the torches of the

by Jim Beatson Bougainville Revolutionary Army are now his headquarters. He says: "We can survive without the mine," and adds: "If the mine is to reopen we have to sort out the political problem first. We are setting up village-level government. I'll leave it up to them to de-

The day after Ona declared Bougainville a republic on May 17, 1990, Papua New Guinea Prime Minister Rabbie Namaliu began a blockade of the island. Now, the shops are empty.

Petrol stations, government buildings, engineering workshops, the radio station, telephone exchange, airport and police stations were burnt down during the war. Only the dozens of Catholic, United and Seventh Day Adventist churches of these religious people remain intact.

tems remain but there is on fuel to run them. "Plentiful rivers and good rainfall are a blessing but we lack the things that go with them: soap, detergent, toilet paper," explains Martin Miriori, formerly an administrator with South Pacific Forum and now Coordinator of the self-styled Interim Government.

With little or no medicine, the health problems in Bougainville are acute. Five thousand people have died from normally preventable or treatable diseases such as malaria, tuberculosis and dysentery, says Dr Charles Loubat, the head of Bougainville Red Cross. "The dramatic increase in the number of malaria cases is the result of a lack of anti-malarials and the ending of spraying of mosquito breeding areas after the block-

The people are learning how to make do without the riches of Bougainville Copper.

> in Wakunai on Bougainville's north-east coast, seems as proud of his petrol made from coconut milk and the washing detergent made from cocoa beans as of the BRA's military successes.

> > He says: "We made two

Jim Tausire, BRA Commander

kinds of fuel, a wet one for kerosene lamps and a more complicated dryer process for diesel and petrol. We also make a pretty good home brew from pineapples." Tausire believes there will be more fighting: "It is

inevitable. We believe the Papua New Guinea Defence Force will try to invent some diversion or confusion to create a new invasion. We believe the war will start again."

He shares the popular view in Bougainville that their secession presents PNG with three unsavory possibilities: more unacceptable compensation claims at other PNG mineral projects underway or being negotiated; encouragement to other potential tribal break aways on New Ireland and New Britain islands; and substantial loss of government revenues which has already fuelled unrest and led to the imposition of a dawn-to-dusk curfew in Port Moresby, the PNG capital.

Mood swings on the island are as changeable as the tropical weather. Without a radio station; telephones and only limited fuel for transport, ru mours abound. Each day its cit-

tzens listen angrily to PNG radio stations which they claim misrepresent the strength of their commitment to secession and hope for announcements from foreign govern ments and organisations of aid or pressure on PNG to lift the blockade.

Francis Ona simply says: "We want the blockade to end. We want the ability to trade.' Closure of the mine has turned Bougainville into a cocoa bean economy, but he says that this is sufficient: "Cocoa gives us US\$28.47 million a year which is enough to enable us to run this country."

Their cocoa economy provides an average annual income of US\$285 per person which could double if plans succeed to export livestock such as pigs and chickens. While the blockade prevents any goods entering the island. PNG companies have recently been allowed to buy cocoa from the is-

If the mine was reopened, PNG's previous tax and dividend return rate suggest that average income per person could rise to well over US\$1,000. An aerial survey undertaken before the mine's closure revealed good mining prospects elsewhere on the island

In the old provincial capital of Arawa, most people are looking beyond the immediate impasse. Martin Miriori would like the mine to be reopened with a new mining company "but coming in on our terms" with less pollution, a larger workforce and reduced profits. - PANOS

set up in the Eastern Region, covering an area the size of Kuwait, five acres (about 2 hectares) of rain-fed agricultural land was allotted each family to allow in to be self-sufficient at least in the staple crop, sorghum. But most allotments in the

East are no marginal land where annual rainfall ranges from 600mm to zero.

During the recent cycle of drought years, none of the Eritrean and Ethiopian refugees in the Eastern Region land settlements harvested enough food to feed themselves for even half a year.

Nor have the refugees been able to earn enough legal income from non-farming activities to support themselves. A programme of income-generating activities set up in 1981 by the International Labour Organisation (ILO) and UNHCR in cooperation with the Sudanese government was a failure.

By 1990 only US\$4 million of the US\$22 million originally pledged had been spent and fewer than 50 refugees had become self-reliant.

Refugees are not allowed to own fixed assets such as land and buildings so entrepreneurial refugees have been confined largely to th transport sector.

Those who built up wealth from transport businesses lost money in April when General El Bashir's two-year-old government introduced new currency. Refugees were not al lowed to open bank accounts so were forced to pay high commission charges by exchanging their money through local dealers.

Exchange controls also prohibit refugees from receiving remittances from relatives in the oil-rich Arab states.

