### The Daily Star

# ENVIRONMENT

ments which seem to rise out of a

Once a calm and tranquil city,

marvel at the city's gleaming sky-

scrapers or admire the modern

high-rise apartment buildings in

Motijheel, Karwan Bazar,

Dhanmondi, Gulshan, Baridhara

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# **Dhaka: A choking city cries for relief**



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VER the last two decades the country has experienced a phenomenal urban growth. And with rapid growth compounded by high concentration of population, the capital city has now become an epitome of squalor, poverty and environmental abyss. Despite the everyday trauma. exhaustion and rigours. people are endlessly attracted to the city, for it seems to have work, livelihood and even prosperity on offer. But during the last one decade, the pace of urbanisation in Dhaka has resulted more in proliferation of population, poverty and pollution. At the same time quality of housing, health and hygiene has

aone down The conscious citizenry have time and again voiced their concern over the way urbanisation was taking place and the wheels of development have defied reason and rational consideration. In absence of clear-cut policies, they complained, shopping plaza, hospitals, clinics, English medium schools, coaching centres and private universities have mushroomed in the residential areas in total disregard of a healthy living. Ominously still, unscrupulous and

greedy people believably with political backing have encroached on the river Buriganga and Baridhara-Gulshan, Banani and Uttara lakes as well as Ashulia and Uttar khan haor areas to perpetuate their business interest.Shockingly, every inch of

available space, either over land or Conscious citizenry would in no water is being gobbled up for housing, legally or illegally.

On the other hand, after 35 vears of independence, the country's rural areas look as bad as it could be. More than 70 per cent of the people live on almost a pittance, more than half of them are completely illiterate, have no access to sanitation and health care or even clean water. Things are so bad in the countryside that hundreds of thousands of people of

all categories pour into the metropolitan cities especially Dhaka everyday because life on the pavements of the city seems somewhat better to them than in those villages that we once admired so much. Dhaka is now a human sea that moves in massive surges. With population now ballooning to almost 13 million, the city is suffering a serious growing pain. Even the footpaths recently constructed in the posh areas are in the posses-

sion of hawkers with little space for people to walk. To meet the mounting pressure of population, the city's skyline now thrusts aggressively upwards seemingly in a bid to pull down the clouds. The city now stretching from Dhanmondi to Banani to Gulshan to Baridhara to Uttara embodies the idea of innovation and achievement in a dazzling

range of human endeavours. People of all categories from around the country are streaming into Dhaka, as if it is the only city of activity and business, to test themselves against the toughest competition and to reinvent lives that seem to be so hard, stale and unrewarding in any other setting.

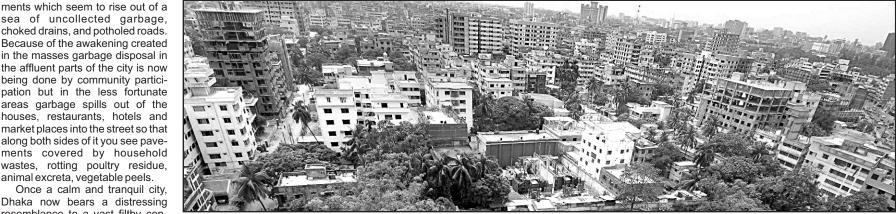
Dhaka is fast becoming a city of the future apparently through building of skyscrapers all around its limits. But as population has swelled in the city, so there has been a surge of violence and crimes. Shockingly, this city now magnifies a myriad of social ills because of administrative inaction and lax enforcement of laws

time find Dhaka as one of the ugly sea of uncollected garbage, human settlements on earth : a city choked drains, and potholed roads. that defies conventional notions of Because of the awakening created urban planning, human behaviour, in the masses garbage disposal in rationality and environmental the affluent parts of the city is now awareness. It is becoming an urban being done by community participation but in the less fortunate jungle where even new waves of areas garbage spills out of the architecture and lifestyle -- not always pleasing to be sure -- are houses, restaurants, hotels and grotesquely on display today. With market places into the street so that a huge population it is one of the along both sides of it you see pave-

most crowded cities in the world with facilities rapidly becoming wastes, rotting poultry residue, animal excreta, vegetable peels. inadequate with every passing day. In the game of making money Dhaka now bears a distressing mostly at the expense of people's suffering, city planners and utility resemblance to a vast filthy conagencies concerned have forgotstruction site. The lure of happy life ten the older part of the city namely in the city has transformed it from a Sadarghat, Gandaria, Wari, sleepy town or a manageable urban centre of the past into a Nawabpur, Chawkbazar and Hatkhola etc. Paradoxically, other bursting human hive. New arrivals cities like Tokyo, Hong Kong, Kuala are pouring in at the rate 200,000 a vear crushing into an area that Lumpur, Bangkok and Singapore in the Asian region with such arowing constitutes only one per cent of the populations are dazzlingly alive. To nation's land. This high migration outsiders, Dhaka, is an urban has been spurred not so much by rural restlessness as by sheer nightmare with skyscrapers thrown helter-skelter against a backdrop of natural catastrophe like floods. exhaust fumes, snarled traffic in a cvclone, river erosion and ioblessness in villages. Travellers may tangle of winding streets and tower-

ing residential and commercial blocks mixed together. During the past years, Dhaka has disappeared beneath a vast terrifyingly crowded urban settle-





and Banani area but the average family income is only \$30 a month. Precisely speaking, behind the blinding glitter of the new millionaires the city is failing bulk of its citizens. Even the basic rudiments of a civic life seem to be evaporatng from the city.

Reports from population census council says that population density in the country is now 2000 persons per sq. mile whereas in Dhaka it would shoot up to a staggering number of 8000 per sq. mile. In view of the land space limitation coupled with great rush of people to the city, construction of multistoried apartment blocks in an ecofriendly environment with provision for green space, spots for recreation, schools, market and games facilities for children close to these apartments is a call of the hour. But apartment blocks have sprung up in different localities of the city not accessible to motorised transports or even ambulances or fire brigade vehicles. Some of these apartments in different localities of the old town or even in the posh area have been raised on hidden sewer lines or gas pipelines. Neither RAJUK, nor Dhaka WASA nor TITAS Gas nor DCC intervened or made anv mandatorv check when these blocks were raised or are still being raised in flagrant violation of building codes. Such flouting of

rules and regulations and manda-

tory safety provisions sometimes invites disasters of unimaginable proportions as it did in the Phoenix building collapse in Tejgaon or Savar Garments factory collapse in recent time

Nobody disputes the fact that the need for construction of such multi-storied flats in the Dhaka city is now a historical necessity because the same space, say five kathas of land that could create living facilities for just one family comprising six members has to accommodate now 80 to 100 families comprising 1000 members at least, and these are being sold like hot cakes because people want to rush into Dhaka to have a secured living, to educate their children and to have hospital facilities when they are sick. Villages have offered them neither income nor good schools for their children nor good doctors and hospital with minimum facilities in their hour of need -- a pathetic situation that can only be attributed to government apathy.

The phenomenal growth in tall building structures in the city areas namely Shantinagore, Paribagh, Bailey Road, Eskaton, Shyamoli, Dhanmondi, Green Road other trhan Gulshan, Baridhara and Banani leaves much to be desired in respect of meeting the environmental needs, management of water, electricity, gas and sewerage connections and lift services.

around the mine round-the-clock

during the entire lifetime of the

project. The impact on the already

dry Barind Tract is obvious. Water

level runs lower in Barind Tract

during dry season and make it

reach the laver of the coal. overbur-

den between 150 and 250m needs

to be removed, leaving a thousand-

near the mine.

Shockingly, most of the apartment blocks built these days in different locations of the city ignore the safety regulations to be met in different aspects. Experts in environmental and geo-technical engineering apprehend that in absence of proper sewerage line with manageable discharge capacity of the effluents -- toxic and hazardous sometimes -- the existing sewer lines might crumble down after a few years posing a serious threat to health and sanitation of the people at large. With surface drains by the side of the streets getting choked under heavy load of effluents, residents are experiencing a miserable existence.

Four million people commute everyday mostly by motorised transports in an area of 100 miles. Bereft of any subways or mass transit system most needed for such a fast expanding city, Dhaka till now is a harrowing labyrinth of streets and alleys that make no geometric sense in these days of technological innovation and fast movements. On the other hand unbridled development ate away Dhaka's past charm and blanketed it in a layer of blue haze.

Precisely speaking, tall buildings have turned to be an inevitable historical necessity to meet the growing needs of expanding population and urbanization

But shockingly, this city of gardens as the names of different areas like Segunbagicha, Malibagh, Rajarbagh, Madhubagh and Lalbagh imply has become a victim of neglect and policy myopia. With developer-sponsored high rise apartment blocks going apace, government must see that it is pursued with a vision and planning process that ensures quality of life Undeniably true, ensuring quality of life should be high on the agenda of city planners and city administration. If you are adding population in the city, you are also adding pollution, congestion garbage and water scarcity

In Bangladesh, especially in Dhaka city till now we haven't seen any concrete action to check the pollution menace. Undeniably true, overcrowding, noxious fumes power shortage water scarcity and contamination have all played a part in turning this once growing charming city into a choking hell now. But public reaction to all these human factors is mostly mute. And surely unless public takes unanimous stand, Dhaka's decline will continue.

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PHOTOS: STAF

## **Open pit mining for coal** Intersection of national economy, local rights and the environment

As the prospect of open pit mining for coal becomes a reality in Bangladesh, distrust shrouds the northern region of the country. Local people including the indigenous Santals in the mine area accuse the government and the company in contract, UK-based Asia Energy, of deception while Asia Energy promises foreign investment, greater energy options and increasing prosperity for the country. Phillip Gain of Society for Environment and Human Development (SEHD) reports with photos:

ORO Buski and Chhoto Buski two Santal villages lay side by side in the Birampur Thana of Dinajpur. The patch of the planted forest on the highland looks like an island from a

removal of entire overburden from covers more than a hundred vilthe top of the coal. It means all lages of seven unions in four villages (there are more than 100 Upazilas -- Phulbari, Birampur, Nawabganj and Parbatipur -- and according to coal exploration experts) within a 59 sq. km radius part of Phulbari Sadar Upazila, will be evicted and the inhabitants under Dinajpur district. Thousands

complain that people living in other parts of the country do not realise their plight, nor do they foresee the disaster the open pit mining is likely to cause to this region "We heard there

deposit in this area. But the people

assessment states that 40,000

people will be displaced, the

Phulbari Raksha Committee esti-

mates that about '150,000 to

250,000 people will be affected

either directly or indirectly' accord-

Nima Banik, a lecturer at





distance. There are vast rice fields in the north and the east of the villages. The highland is luxuriant with dry-season crops such as mustard, wheat, and green vegetables. Santal men and women busily plant paddy saplings in their lowland. A line of eucalyptus lie on the horizon. A golden shower of sunshine in the evening flushes the landscapes. Inside the Santal villages, large traditional mudhouses with few windows, typical of Santal dwellings, line a village path, speaking of a lingering antiquity. It is here, among these tidy and

serene villages that the search for coal has been continuing for several years. Experts from country and abroad have frequented the area with their drilling equipment, pulling out coal from deep in the earth in 150 drilling sites. Villagers have watched the drilling activities with curiosity. They were told of coal deposits in the area and the prospect of mining. They thought the mining would bring good both to them and to the country. Later, they came to know that the method that will be used for mining requires the

relocated. Everything on the ground will vanish. This is the story of open pit mining and the intersection of benefits and loses of the people living in the mining area, the country's economy and the environment.

#### The project

Asia Energy, a UK-based company, is in contract with the Bandladesh dovernment to mine coal in Phulbari in a scheme called the Phulbari Coal Project. An Australian company, BPH, started the coal exploration in this area. The Bangladesh government signed a contract with BPH through an open tender. In 1998, the contract was transferred to Asia Energy. Asia Energy, after estimation of coal reserve, has submitted to the government a plan of operation. The government has already granted environment clearance to the company.

#### The location

According to Asia Energy, 5,900 hectares or 59 sq. km. land area is required for the mine. The area



of acres of cropland fall within its boundaries.

engaged by Asia Energy did not let The area of Phulbari Thana us know that the method for mining Sadar that falls within the project would be open-cutting which area has brick-built houses, necessitates eviction and destrucschools, colleges, tarmacked tion of our houses, schools, colroads, railroads, business facilities leges and all other establishments and so forth. Outside the township in the mine footprint. All of us. lie vast crop fields, forest patches irrespective of party affiliations, are and plantations. Beneath the against it." says Moti, top leader of the Phulbari Raksha Committee. expanse of beautiful landscapes lies the 38m thick (on an average) He is also the principal of Phulbari coal fossilised over 270 million Women's Degree College and years. According to Asia Energy the chairman of Bangladesh coal reserve in this mine is 572 Nationalist Party (BNP) in Phulbari. million tons. The company The company and the locals believes, if explored, more coal will neither agree as to the number of be traced in the south of the present people affected. While Asia Energy

#### Who benefits and who loses?

The political debate: Local versus national interest Though the people living at the site

ing to Moti. of the planned mining project object Phulbari Women's Degree College to it, both the government and the says, "No matter wherever we are opposition are supportive of the put, if we get evicted from our Phulbari Coal Project. Appointed homes, we will lose our traditions. by Asia Energy, GHD, an internasocial organisation and busitional organisation, prepared a nesses. These losses are beyond report for the company that claims

compensation. Moreover, we do Bandladesh will receive benefits not trust Asia Energy. Its estimate is worth US \$21 billion over the 30 unfounded.' vears of the mine's lifetime. Of this. M. Anwarul Islam, Asia Energy's US \$7.8 billion will come as a direct general manager (environment benefit and US\$ 13.7 billion, as and community) disagrees and indirect or multiplier benefits. The responds, "We have always menmine itself and the coal-fired plant tioned the idea of open pit. In for production of electricity will Phulbari, there is no other option.3 contribute one percent per annum His claim: "We have changed our to the GDP of the country. coal extraction plan to keep most of The inhabitants of the mine area



#### A degree college in the mine area

eastern part of Phulbari Upazila town outside the mine. Consequently, we will extract 20 million ton less coal than our initial estimate. We take this measure to reduce the damage.

According to the company all the damages will be compensated and the condition of the inhabitants of the mine area will be better than before. However, the aura of distrust and the demand of the locals is clear: "We do not want open pit mining." From June 2005 the Phulbari Raksha Committee has been organising processions and meetings every Saturday in Phulbari in protest against it.

National interest versus foreign interest

Asia Energy claims that Bangladesh has no risk in the Phulbari mine project. The claims that Bangladesh will receive half of the total profit accrued from the mining operation. The profit includes 6 percent royalty, 45 percent corporate tax and 2.5 percent import duty. The other gains of Bangladesh as the company mentions will be "a new source of energy for the country, a new commodity for export, new industries, employment opportunities, regional development, poverty alleviation, growth of nascent industry, new rail and port infra-

structure.' Professor Anu Muhammad's fear is: "It is Bangladesh where the coal has been found; and a foreign company will become its owner. There is no proper way to measure the actual benefit of Bangladesh and the price it would have to pay for it. What becomes clear is Bandladesh will have to buy its own coal from the company at an international price.

#### Impacts on environment

A serious concern of open pit mining is its agricultural impacts. The method requires the mine area to be completely dewatered so that the hollow of the mine does not get immersed in water. Not an easy task. Large pumps are required to suck out underground water



Black flags in Phulbari municipality area in protest of open pit mining

hollow, after 30 years of digging and other activities, will contain toxic substances. It may not be realistic to envision this polluted lake becoming a source of fresh water

difficult for the tubewells to draw Handling the other forms of water. When dewatering starts for environment pollution is also a the mining, the shallow and deep challenge. There will be routine tubewells will not draw enough dynamite explosion inside the mine water for farmers in the larger area to break the rocks and the coal. Heavy machinery will be set up in Asia Energy's solution is to and outside the mine. Heavy 240ton trucks and trains will carry the distribute the water pumped out among the farmers. It is an open coal causing noise pollution. Coal question if the water distribution dust will be a major source of air pollution. If the enormous amount would be even-handed. The government and non-government of polluted water generated from organisations have been trying washing of the coal is not properly many options including tree plantatreated before it is dumped into tion for many years now to prevent surrounding water bodies, it will kill desertification in north Bengal. If fish and other forms of life. Further, dewatering in the mining area the earth through such deep dighastens the desertification proging and many types of pollution cess, pouring water above the will lose all its micro-organisms. Air ground remains a doubtful viable pollution from burning of coal to option for agricultural sustainability. produce electricity is a big concern. The Asia Energy officials inform Air polluting agents such as sulphur that the average thickness of coal's dioxide, nitrogen oxide, volatile laver in Phulbari is 38m. In order to

organic compounds (VOC), mercury, lead, cadmium, chromium. and arsenic will contaminate earth, water, plants and animals.

Eliminating pollutants is foot deep hollow. Once used up, extremely difficult. Asia Energy the hollow will be filled with earth and a new area will be dug out. The expects to keep the pollution within area filled up does not become a tolerable level. However, there is useful in many years. According to a fear that the company will not a high official in Asia Energy, topsoil adopt adequate measures to will be removed and preserved mitigate pollution because these once the mining operation begins in involve much effort and cash.

a particular block. Topsoil will be Transportation of the coal is brought back and spread on the top another concern. In order for marof the area filled in. But no one can keting, the coal will be carried to the say when the land becomes cultideep seaport through the vable again. The other question is: Sundarbans. New seaport and will the company fill the hollow with railroads will be built for this. On the the same care as it is done in the positive end, this will create developed countries? Nonemployment and bring in revenue, compliance of existing laws is a but it also adversely affect the common practice in Bangladesh. environment of the Sundarbans At the final stage of the mining (the largest mangrove forest on operation, in about 30 years after earth). The noise and water pollution created by the Mongla Port has the operation begins, Bangladesh will get a huge lake that according already become a threat to the to the company will be filled up with animals, plants and other life forms fresh water providing a big source in the mangrove forest. The added of water, fishery and recreation. But transportation over the 30 years of mining experts warn that the final the mine's lifetime will increase

threats to the Sundarbans. The environment and social impact assessment (EIA and SIA) of the Phulbari Coal Project has already been carried out and approved by the Department of Environment of Bangladesh government, informed the Asia Energy officials. Three hundred consultants of several international and national companies, some Bangladeshi environmental organisations and individuals have done the EIA and SIA. They have produced 2,600-page reports after 18 months of work. This is where many question if the EIA and SIA commissioned by the same company that will extract the coal have been impartial. Asia Energy claims it will do all that is needed for the protection of environment and social harmony.

Although the people of mine area and their supporters stand against the open pit project, they are not against extraction of the coal in general. Their understanding is that the ownership of the coal and fate of the affected people just cannot be handed down to a foreign company. They suggest waiting until the country develops its own mining expertise and technology. "We may give our consent when the country will be able to mine the coal resource with our own technology," says Principal Md. Khurshid Alam Moti, a top leader of Phulbari Raksha Committee. There are many others whose voices join with Principal Moti's

Asia Energy has turned down the demand of the Phulbari people to wait until Bangladesh builds its own expertise and mining technology. It says that by the time Bangladesh has it own mining expertise and resources, the fossil fuel may not be required any longer. The company claims that it is high time to extract the coal. However, the country may need to examine at what cost it gains benefits from the coal.

A Santal woman on her crop land in the mine area

Coal in the pit