TIME TO TURN A CORNER

PART-3: GLOBAL TRENDS: ADVERSITY OR OPPORTUNITY?

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that both natural and human systems are affected by climate change. The AR4 (WG II) finds both the processes to be accelerating and intensifying.

It is further learnt from this report (AR4, WG II): Glaciers and ice are increasingly melting everywhere so that the concerned areas are faced with looming disasters. Due to melting of glaciers and ice, the mountains and the Arctic and Antarctic regions as well as oceans are facing structural changes, often extremely adverse to both natural and human systems. As a result of accelerated glacier and ice melt and increased precipitation, timing of runoffs and heights of water levels are changing; structure of water is changing as a result of warming of water in deltas and rivers; and with warming and sea-level rise accelerating, coastal areas are becoming increasingly disaster-prone and biodiversity is affected widely.

Problems are intensifying in various socio-economic sectors such as agriculture (crop, forestry, fishery, and livestock), industry, and human health and habitats. Essentially what is happening is that, due to climate change, life and living of human beings is adversely impacted and the process will intensify in future, particularly if the human behaviour in relation to economic, technological, and other aspects of life and living continue as

usual. It has also been stated clearly that developing countries will face high levels of risk as a result of climate change, i.e. these countries will suffer from the adverse impact of climate change the most. But, their capability to manage such consequences is extremely limited. How disastrous the consequences of climate change may be can be gauged from the following estimates provided in the report AR4, WG II): (a) Under business as usual scenario, if global warming rises by 1.0oC, another 1.2 billion in Asia and 0.25 billion people in Africa will face water shortages (about 1.0 billion suffer as of now). Also, the productivity of wheat may decline by up to 5% in India. (b) If the global warming rises by 2.0oC, productivity of rice in China may decline by 12%, about two million people in Asia will face storm surges and another 1.6 billion people in Asia and Africa will face water shortages. (c) If global warming increases further, the problems will further intensify.

It transpires that the countries

diseases of various kinds.

review on climate change and its impli- responsibility for the climate change more intensely in future. Due to sea droughts in future. The Sudarbans cations. He has emphasized that poor that is now occurring lies with the level rise, a significant area of the which contains World Heritage and countries face the adverse conse- developed countries. Hence, they country in the coastal belt may be Ramseur sites already faces decline quences of climate change the most, should come forward with adequate permanently inundated. River ero- due to freshwater problem. Moreover, the climate change management and technical and financial resource sion will intensify and low-lying areas. Sider has destroyed virtually onesocio-economic development must be transfer to the developing countries to inside the country may not be avail- fourth of the Sundarbans. Biodiversity pursued through an integrated pro- help them formulate and implement able for any use at all. As a result, huge is declining fast. The Sundarbans is cess, and that the developed countries appropriate adaptation policies and numbers of people will become cli- under severe threat of extinction as must provide resources to the develop- programmes. They must start reduc- mate refugees. ing countries as promised. It has also ing their own greenhouse gas emis- The relief and rehabilitation work ing decades. been proposed in the review that inter- sions adequately. national community should come forward with financial assistance for ment and socio-economic develop- opment budget in addition to other through properly designed and execollecting and improving data on the ment are not pursued in an integrated resources raise specifically for the cuted research activities, the nature impact of climate change in different fashion, sustainable development purpose. This may have an adverse of the problems arising from climate regions and for conducting research on cannot be achieved. Therefore, the impact on development. Hence, the change and to devise adaptation achieving and maintaining improved international community should also more frequent the disasters are the policies and programmes to miniagricultural productivity under condi- provide adequate financial and tech- more difficult the prospects of devel- mize the losses and damages. tions of droughts and increased pre- nical assistance to developing coun- opment will be. The two floods and Indeed, adaptation is not a one-off cipitation.

If effective adaptation policies and economic goals. tion in the emission of greenhouse rate. gases must be earnestly and adeassessments of the problems in the context of both socio-economic development and climate change management and the utilization of the results in an integrated fashion.

AT THIS STAGE, ATTENTION MAY BE DRAWN TO FIVE MAJOR CONCLUSIONS

IPCC (AR4 in particular), it can be prone given that it drains over 92% of shortages during the lean season will

mate change are those which suffer greenhouse gas emissions adequately On the other hand, increasing abstraction remains equal. Indeed, from multiple stresses such as high on one hand and promote adaptation upstream abstraction causes acute there may be civil strife in the country population density, low economic policies and programmes to minimize water shortages in the country in the as a result of shortages of agricultural development, limited human capabil- the adverse consequences of climate lean season (January-May). ity, institutional weaknesses and inef- change on the other.

from AR4, WG II report, which include: with full determination and commit- address them with total commitment. change management is an area for (a) Adaptation to climate change and ment. In these countries, of course, mitigation (i.e. reduction of green- economic growth has to be equitably the agricultural productivity in South should be sought vigorously. Indeed, house gas emissions) are both abso- distributed with a view to reducing Asia may decline by up to 30% by the Bangladesh, while seeking to accelerlutely necessary. The process of reduc- poverty and hunger at an accelerated middle of this century as a result of ate its economic development,

quately started without further loss of which are climate change risk-prone, agricultural productivity coupled technologies to reduce its greentime so that by the end of the century it can also play a role in the manage- with a significant reduction in agricul- house gas emission, although the is possible to manage the process of ment of climate change. For them to tural land through permanent inun-total emission of the country is negliglobal warming. (b) The climate be able to do so, necessary education, dation due to sea-level rise, river bank gible. But, given that the developed change policy must be integrated with training, and health services should erosions, saline intrusion, and other countries which are responsible for economic and social development be ensured at the local space so that uses, the country faces devastating climate change and, hence, for the policies to generate a process of sus- the local people can acquire abilities food insecurity in 30 or 40 years time. sufferings of the people of tainable development. The basic to play appropriate roles in managing During major floods, vector and Bangladesh in that context, equity thrust, therefore, should be proper climate change impacts, while con- water-borne diseases such as malaria, and ethics would demand that they tributing to their own and national diarrhoea, skin diseases break out on transfer necessary financial and economic development.

BANGLADESH: Bangladesh suffers often cripple, even kill people. As a enable the country to combat the from multiple stresses. These include result of accelerating glacier melt in consequences of climate change and the ones enumerated earlier. One the Himalaya, water flows in the east- pursue accelerated sustainable other major constraining factor is the ern Himalayan rivers, particularly development. location of the country at the bottom during the lean season, may increase (a) On the basis of the findings of the Meghna. The country is very flood- which already faces severe water emphasized that the world community the total water annually generated in face even greater shortages in the

which face the greatest risks from cli- must work together to start reducing the GBM region to the Bay of Bengal. course of time, even if upstream

Bangladesh is indeed one of the availability. fectiveness, soil quality deterioration, (b) It is the developed countries countries, which is set to suffer the socio-economic problems arising which, having emitted greenhouse most in the wake of climate change. Bangladesh will face intensifying from the impact of globalization, and gases in huge quantities over the Floods, droughts, tornadoes, storm economic problems (unemployment, years, have caused the anthropogenic surges, and cyclones are almost cer- declining agricultural productivity) as In the UK, Nicolas Stern prepared a global warming. Therefore, the main tain to occur more frequently and there may be more intense and longer

following a natural disaster requires (c) If climate change manage- transfer of resources from the devel- must focus on understanding, tries towards achieving their socio- Sider of 2007 are indicative of what activity. It is a process. Therefore, may come in future. In fact, the three Bangladesh must increase its adapprogrammes are implemented in a (d) The developing countries 2007 natural disasters may constitute tive capacity and develop an intecountry or a region, it should be possi- must formulate and pursue socio- a loud wake up call for the country to grated pathway for climate change ble to minimize the adverse impact of economic development policies and take the climate change issues as management and socio-economic climate change. For adopting steps to programmes and climate change seriously as they deserve and formu- development. Obviously, Bangladesh that end, certain guidelines emerge management in an integrated fashion late policies and programmes to is short of resources and climate

> (e) The local communities, suffers from only a 10% reduction in in terms of using clean development a wide-scale. These health hazards technical resources to Bangladesh to

land and increasingly declining water

The drought-prone north-west climate change intensifies in the com-

Clearly, therefore, Bangladesh According to IPCC (WG II report), which international assistance climate change. Even if Bangladesh should also try to do whatever it can

of the three mighty river systems: the over the next 10 or 20 years but will Dr. Qazi Kholiquzzaman Ahmad is Ganges, the Brahmaputra, and the then start declining. Bangladesh Chairman of Bangladesh Unnayan Parishad (BUP) and a Lead Author, UN Intergovernmental Panel on Climate Change (IPCC).