TIME TO TURN A CORNER

PART-3: GLOBAL TRENDS: ADVERSITY OR OPPORTUNITY?

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Adaptation

FROM PAGE 52

design criteria for drainage infrastructure are other adaptation options that can be pursued.

Adaptation to Salinity Problem

Specific physical adaptations for the salinity problem should focus on increasing surface water flows from upstream, reexcavation of river networks, construction of cross dams/embankments to prevent saline water intrusion and increasing local storage of fresh water in the area.

Institutional adaptations for salinity include maintenance and operation of sluices and regulators, groundwater management, land use practice, extension services, and water saving techniques. The first two are management options. Improving maintenance and operation of sluices and other regulators to hold water in areas that are

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under increased stress Adaptation to from salinisation is high in priority. In Bangladesh, there still remains a tendency to consider water as a common property. Groundwater management and regulatory operations should therefore incorporate and make use of the difference between the dry and wet seasons in Bangladesh.

Providing incentives to change agricultural practices so that agricultural demand for fresh water goes down can influence land use practice. Therefore, a cohesive approach is necessary with an intensification of extension services to promote changes in land use and farm management techniques. For example, there could be a door-to-door service in providing access to, and information of weather extremity tolerant crops to the farmers and change of cropping pattern in the coastal zone.

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Increased Morphological **Dynamics**

Physical adaptations to the threat of increased erosion would include provision of mangrove greenbelts, cross dams and/or river training works. Mangrove greenbelts in the foreshore areas and along the coastal embankments, and cross dams at the same time enhance accretion. River training works, e.g., through bank protection or strong-holds are confined to the estuarine river branches. All these measures are effective. Cross dams and river training works and their long-term maintenance are basically costly. The high effectiveness and feasibility of mangrove greenbelts are well acknowledged. GOB has undertaken social afforestation program to restore the ecological balance and

13.50%

13.75%

14.00%

Double Money Deposit Scheme (DMD)

to mitigate environmental maintenance of embankhazards in the coastal ments is very essential. areas. Presently this is Under CERP (Coastal in this program is very

forest areas (through a combination of enforcement of existing legal proing approach may be situation, drainage netnity-based adaptation be improved and new ones decides on how to share resources.

land into culture for either forestry or agriculture falls under the jurisdiction of different ministries. The loss of land and relocation of displaced people needs to be addressed seriously. The mangrove belts could be managed in a much more flexible way. Reform of land tenure laws and tions include improving policies, would give a sus- monitoring, forecasting tainable adaptation base and warning systems and to climate change.

Adaptation to More **Intense Natural** Disasters in the Coastal Zones

new infrastructure such as cyclone shelters, coastal embankments and raised platforms, improved road communication networks, and improved technology of warning and signaling health and property. systems and mangrove greenbelts along the entire monitoring and warning coastal zone. In addition to system of tropical cyclones cyclone shelters for people, adequate provisions ciated storm surges would should be made for livestock, food grains and warning about the landfall other perishable items. In of cyclones. The research the past, cyclone shelters on these aspects should be for coastal cyclones have strengthened. helped mitigate risks from Dissemination system of cyclones. The size and the warning should be adequacy of the shelters improved to alert the should be re-examined in coastal residents about the the light of increased num- severity of storms. The ber of people at risk and cyclone preparedness the increased cyclone program may be further intensity as well. In recent strengthened and the years, over two thousand vulnerable people should multipurpose cyclone be provided with approprishelters have been built in ate training for self and the coastal zones. Cyclone community preparedness shelters are the safe heav- to face the disasters. ens for the people during storm surges and for other fisheries sectors will suffer period these are used as severe impacts due to schools health/community cen- reduction of surface and ters. For livestocks and ground water and soil other perishable items, moisture. The high floods raised platforms (Land fill and storm surges will wash above the flood levels) of out the fish and shrimp adequate numbers should ponds. The biodiversity be built, that can also be will be seriously affected used on a multipurpose by high temperature,

village markets etc. Embankments need to cyclones and higher storm be maintained on a regular surges. From the above basis. Actual maintenance discussions, it may be of the existing coastal concluded that the embankments is insufficient. A sizeable proportion of the existing coastal our door and we must embankments is in bad wake up and resist these condition, and is already impacts with all of our being breached. Therefore resources and give our best

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found very effective and E m b a n k m e n t community participation Rehabilitation Project) BWDB recently completed the construc-Institutional adapta- tion/renovations of about tions would aim at protect- 700 km sea-facing ing the wetlands & man- embankments (mechanigroves and land use cally compacted). These arrangements (including embankments are found land tenure laws) & poli- very effective against erocies. The value of growing sion due to wave rush-up mangrove greenbelts is and rush-down. The closely related to the effec- embankments are maintiveness, feasibility and tained well with commusustainability of protecting nity participation. For its mangroves in existing role in saving lives and property, this has been slotted as a high priority future incremental action. visions, and awareness For quick evacuation of raising among the coastal people and livestock to the population). Protection of shelters and other safe wetlands is assessed in a places from the vulnerable similar way, and wetlands areas during storm surges, can serve as a buffer road networks need to be against coastal storms and improved. In considererosion. Another promis- ations of climate change found through commu- works and structures are to where the community need to be constructed to drain out rapidly the surge the limited common water from the polders. It has been found that man-Although loss of land groves and forest belts act and the accretion of new as effective barriers against lands are common phe- winds and storm surges nomena in Bangladesh, at and facilitate accretion. present, taking accreted New mangroves and forests in the fore shore areas, sides of embankment and around the homestead areas should be build. Such

benefit sharing. Institutional adaptaevacuation procedures, adapting appropriate land use & development policy, and maintaining existing and future coastal infrastructures (embankments, It includes construction of drainage structures, cyclone shelters etc.). These responses relate to an improved emergency preparedness for cyclones and storm surges etc., and could reduce risks to

activities in Bangladesh

need to be streamlined by

ensuring people's partici-

pation in maintaining and

Improvement of the and prediction of the assogive more reliable advance

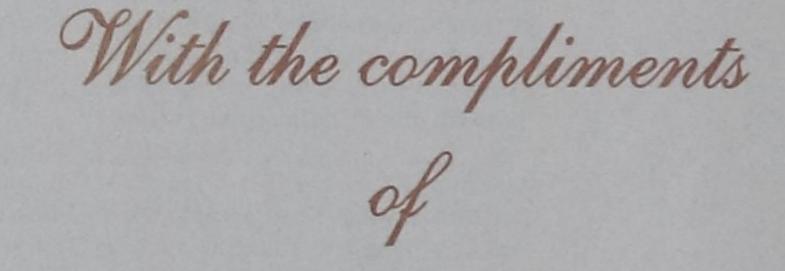
Besides, the forestry and a n d future scarcity of water and basis as play grounds, drought as well flood conditions, more stronger impacts of climate change have already knocked at

climate change and future for living. impacts should be studied valuable lands, environment and ecology and DDC Ltd.

efforts to this end. The keep our country suitable

thoroughly to save our Dr. Md. Azizur Rahman is Water Resources Expert,



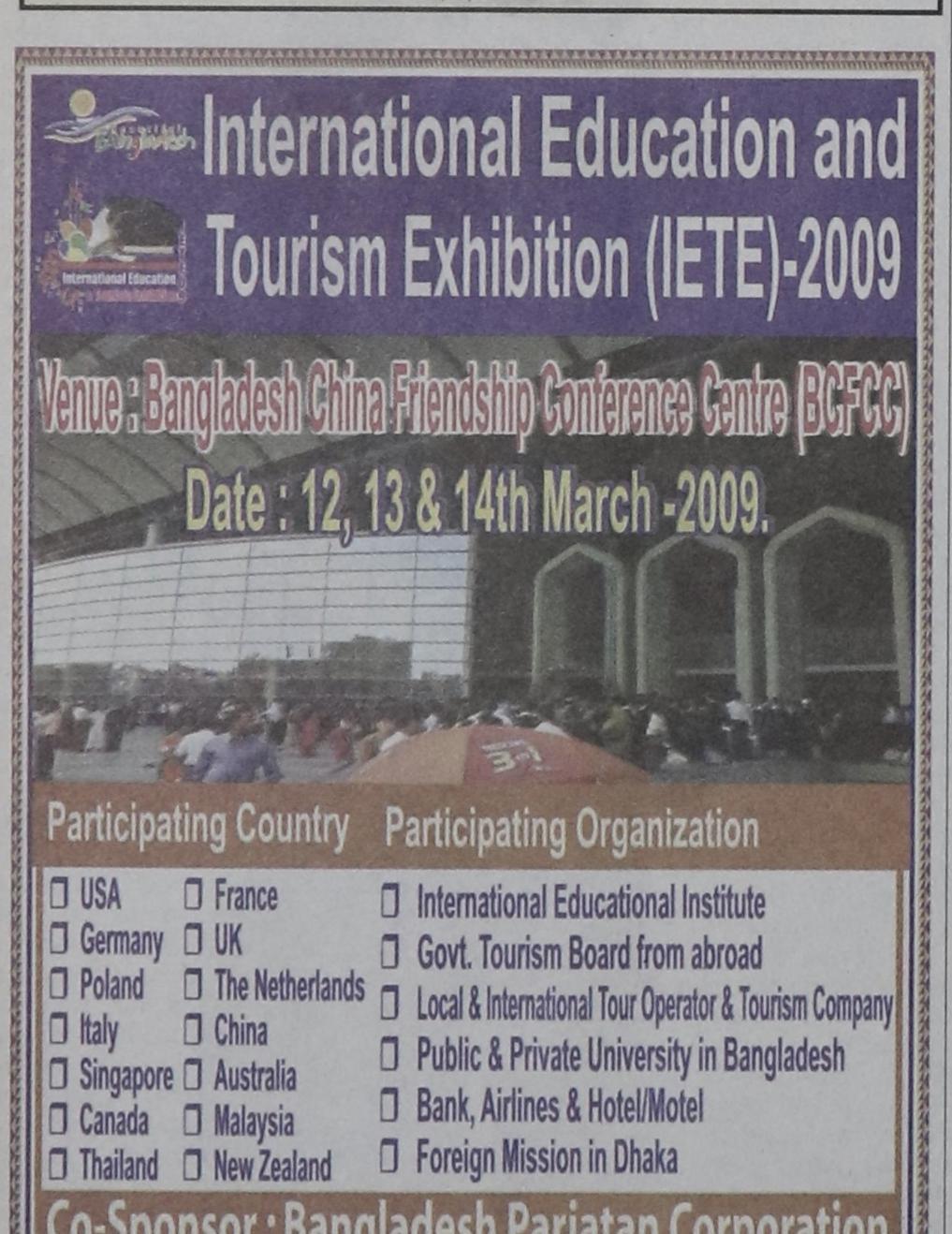




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