

measure, a beginning could be made by initiating 73 one or two new entities with this kind of approach (say, Nagpur University in cooperation with NEERI/Indian School of Mines, Dhanbad/Indian Institute of Science, Bangalore), test the practicability of various approaches, and then replicate the process. A decade of hard work will be needed to formulate the course content, develop new teaching methods, write new textbooks, prepare instructional materials, train the teachers in the new methodology, develop new examination systems, *etc.* The question is not whether we can afford not to do this. "Business-as-usual" approach will have catastrophic consequences; the graduates will not be able to find employment as their learning has no relevance to the needs of the situation, and, India will be left behind in the knowledge race.

In his own humble way, the author has attempted to contribute to this campaign by writing a book to cover a possible course, "Geochemistry in Soil Resources Management" (complete with exercise), on the basis of the philosophy spelt out above. The book is expected to appear in print shortly.

Adviser on Environment & Technology
C.P. 1947, Maputo, Mozambique

U.ASWATHANARAYANA

WORKSHOP ON "INTEGRATED MINERAL EXPLORATION PROGRAMME IN GOA – A VISION", 6TH DECEMBER, 1996, PANAJI, GOA, INDIA

The revised geological map of Goa on the scale 1:125,000 published by the Geological Survey of India was released by Dr.S.K.Acharya, Director-General, Geological Survey of India at a function held at Panaji, on the 6th December, 1996. The map incorporates the updated data collected during the special thematic mapping (STM) carried out by GSI between 1987 to 1994. The STM has clearly brought out the basement-cover relationship between the older Peninsular Gneissic Complex and the overlying supracrustals, *viz.*, Dharwar Supergroup marked by ortho-quartzite. The mapping has also brought out a number of younger ultramafic bodies as at Usgaon, Londa and Aven.

As an adjunct to the release of the geological map, a one day Workshop, co-sponsored by Geological Survey of India, the Government of Goa, Goa Mineral Ore Exporters Association and the Goa Mining Association, was also held on the theme "Integrated Mineral Exploration programme in Goa - A vision". Seven papers were presented at the Workshop covering various aspects of mineral exploration in Goa, past, present and the new emerging horizons, environmental impacts of mining and sustained mineral Exploration.

The geological map of Goa is available for sale at Rs.150/- per copy.

Geological Survey of India.
Bangalore

T.S.S. MURTHY
T.L. RAMAKRISHNA