

**GOVERNMENT OF INDIA
OCEAN DEVELOPMENT
LOK SABHA**

UNSTARRED QUESTION NO:292
ANSWERED ON:24.07.2001
OCEAN DEVELOPMENT SCHEMES
C. SREENVAASAN;PUTTASWAMY GOWDA

Will the Minister of OCEAN DEVELOPMENT be pleased to state:

- (a) the details of schemes which have been taken up by the Government for the development of Ocean;
- (b) the expenditure incurred thereon so far; and
- (c) the details of achievements made thereunder so far?

Answer

MINISTER OF OCEAN DEVELOPMENT (DR. MURLI MANOHAR JOSHI)

(a) & (b) The Department of Ocean Development is currently implementing a number of schemes. The names of the various schemes and expenditure incurred thereon during the current plan period (1997-2001) is as follows:

(Rs. in crores)

Name of the scheme Expenditure incurred (1997-2001)

Antarctic Expedition and Polar Science	77.57
Marine Living Resources	13.80
Marine Non-Living Resources	60.72
Coastal and Marine Area Management	34.78
Ocean Observation & Information Services	58.70
Marine Research and Capacity Building	10.75
Coastal Community Programmes	5.31
National Institute of Ocean Technology	63.15
Ocean Awareness	1.61
International Cooperation and Obligation	7.26

(c) The major achievements of the Department of Ocean Development inter-alia include:

- Annual Expeditions to Antarctica;
- XIXth and XXth Indian Expeditions launched from Cape Town, saving of Rs.1.30 crores per expedition and reduced voyage period;
- Rate of India's movement vis-à-vis Antarctica being estimated;
- Lake sediments of Priyadarshini Lake dated back to 10,000 years;
- Valuable studies in Human Physiology & Psychology under extreme cold conditions;
- Survey for Benthos undertaken in depths from 200 to 1000 metres in the Bay of Bengal, Arabian Sea;

- Promising Anti-Diabetic, Anti-Diarrhoeal, Anti-Cholesterol, Larvicidal and Anti-anxiety Leads obtained for Drug Development and three patents filed;

- Drug development in advanced stage;

- Shallow bed mining system successfully tested at 410 metres depth;

- 500 kg/ day demonstration plant for extraction of metals from Polymetallic Nodules to be shortly commissioned at Hindustan Zinc Ltd., Udaipur;

- Commissioning of 1 MW Ocean Thermal Energy Conversion pilot plant underway off Tuticorin Coast;

- Acoustic Tide Gauges designed and developed indigenously and installed at different locations in India and in Vietnam.

- Information system using GIS developed for 6 coastal critical habitats; Waste Assimilative Capacity of Tapi Estuary and Ennore coast for selected parameters determined; EIA guidelines for ports and harbours developed;

- 12 Moored Data Buoys deployed in Indian waters to collect and disseminate real time data which is useful for accurate weather prediction, scientific studies;

- Drifting buoys, current meter arrays and XBTs deployed for understanding oceanographic processes and validation of satellite data;

- Ten modern tide gauge stations established for monitoring sea level variations; Generation and dissemination of potential fishery zone forecasts.