

**GOVERNMENT OF INDIA
WATER RESOURCES
LOK SABHA**

STARRED QUESTION NO:490
ANSWERED ON:27.08.2001
SURVEY BY ISRO FOR WATER RESOURCES
MADHAVRAO SCINDIA

Will the Minister of WATER RESOURCES be pleased to state:

- (a) whether the Indian Space Research Organisation (ISRO) has conducted any survey of different landscapes to spot out ground water resources;
- (b) if so, the States where this survey has been done; and
- (c) the success so far achieved in identifying such resources, especially in the drought affected areas ?

Answer

THE MINISTER OF WATER RESOURCES (SHRI ARJUN CHARAN SETHI)

(a) to (c) A Statement is laid on the Table of the House.

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (c) OF THE LOK SABHA STARRED QUESTION NO. 490 REGARDING SURVEY BY ISRO FOR WATER RESOURCES TO BE ANSWERED ON 27.08.2001.

The Department of Space is engaged in preparation of ground water prospects maps using satellite remote sensing techniques for the States of Andhra Pradesh, Chhattisgarh, Jharkhand, Karnataka, Kerala, Madhya Pradesh and Rajasthan at the behest of the Rajiv Gandhi National Drinking Water Mission of the Department of Drinking Water Supply. The maps are prepared by incorporating geological (lithological and structural), geo-morphological and hydrological information derived from satellite remote sensing and collateral ground data. Such integrated information provided in the ground water prospects maps help in narrowing down the target zones and systematic selection of sites for drilling after conducting necessary follow-up ground surveys (hydrogeological/ geophysical) to establish drinking water sources. About 700 such maps have so far been prepared and provided to the concerned user agencies. A sample survey of 20,000 bore-wells drilled previously using such maps had shown a success rate of over 90%.