

**GOVERNMENT OF INDIA
MINISTRY OF EARTH SCIENCES
LOK SABHA
UNSTARRED QUESTION NO. 4754
TO BE ANSWERED ON WEDNESDAY, APRIL 22, 2015**

National Data Buoy Projects

4754. SHRIMATI POONAM MAHAJAN:

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) Whether the Government implemented National Data Buoy Project in the country;**
- (b) if so, the details thereof including the institute responsible for implementing the project;**
- (c) the total amount of funds spent on the project since its inception, year-wise; and**
- (d) the total number of data buoys deployed in coastal and ocean areas of India so far and details of locations for the same?**

ANSWER

**MINISTER OF STATE FOR MINISTRY OF SCIENCE AND TECHNOLOGY AND
MINISTRY OF EARTH SCIENCES
(SHRI Y.S. CHOWDARY)**

- (a) Yes, Madam.**
- (b) National Data Buoy Project (NDBP) is being implemented since 1997-98 for acquisition of time series data in real time from the seas around India, viz., the Bay of Bengal and the Arabian Sea. This programme is executed by the Earth System Science Organisation (ESSO) of National Institute of Ocean Technology (NIOT), Chennai, as a part of Ocean Observing System (OOS) from 2007-08. This NDBP had initially implemented through partial financial assistance from Norway for establishment of 12 moored buoy networks during the period 1997 to 2002. These buoys are deployed at selected locations for collection of metrological and oceanographic data from the seas around India. These buoys are equipped to collect up to 76 parameters and transmitting the information in real time through satellites. Currently, the moored buoys network has been augmented to 19 buoy network, deployed in the Arabian Sea and Bay of Bengal as recommended by the National Expert Committee, in specific locations for long term observations. Out of 19 buoys, the numbers of buoys deployed in the open ocean and coastal were 15 and 4, respectively. Met-ocean buoy systems specifically collect marine meteorological data along with surface temperature data and another advanced version Ocean Moored buoy network for Northern Indian Ocean (OMNI) buoy systems are designed to collect marine meteorology, surface and sub-surface oceanographic parameters. The Calibration and Validation (CALVAL) buoy system deployed off Kavaratti has been installed for satellite data validation in association with Space Application Centre, Indian Space Research Organization. The buoy data have been widely used for a range of applications, weather forecast, satellite validation, ocean disaster like cyclones, storm surges etc.,**
- (c) The details of year-wise fund release, since it's inception is placed at Annexure-1.**
- (d) So far 19 data boys have been deployed. Details of location of buoys are given at Annexure-2.**

Annexure –I: Total amount of funds spent on the project since its inception, year wise

NATIONAL DATA BUOY PROGRAMME	
YEAR	ACTUAL EXPENDITURE INCURRED (Rs. in crores)
1997-98	8.63
1998-99	4.40
1999-00	2.58
2000-01	8.33
2001-02	6.53
2002-03	12.28
2003-04	6.88
2004-05	6.35
2005-06	7.98
2006-07	15.99
2007-08 (*)	3.57
2008-09	4.81
2009-10	7.14
2010-11	14.93
2011-12	19.51
2012-13	24.43
2013-14	37.42
2014-15	18.07

(National Data Buoy Project got merged with Ocean Observing system in 2007-08)

Annexure-2: Number of data buoys deployed in coastal and ocean areas of India so far and details of locations

No. & Type of buoy	Location	Depth	Deployment Date	Buoy Position Status
CB01	11°35'23" N 92°35'49" E	10 m	03.02.2014	Buoy in position
BD12	10°29'45" N 93°59'27" E	3200 m	27.02.2014	Buoy in position
BD13	13°59'56" N 86°59'53" E	3065 m	14.02.2014	Buoy in position
BD08	18°09'41" N 89°40'13" E	2200 m	20.02.2014	Buoy in position
BD10	16°30'18" N 87°59'57" E	2678 m	01.07.2014	Buoy in position
BD11	13°28'59" N 83°59'01" E	3260 m	13.07.2014	Buoy in position
BD09	17°51'23" N 89°40'38" E	2250m	23.02.2014	Buoy in Position
BD14	07° 01'12" N 88° 01'12" E	3780m	17.01.2015	Buoy in Position
CB05	14°16'52" N 80°12'15" E	15m	14.01.2015	Buoy in Position
AD02	15°00'16" N 69°00'00" E	3850 m	06.10.2013	Buoy in position
AD04	08°29'17" N 73°05'59" E	2250 m	28.07.2014	Buoy in position
CB02	10°52'26" N 72°12'32" E	20 m	14.12.2014	Buoy in position
CB04	15°24'00" N 73°45'58" E	17m	16.12.2014	Buoy in Position
CALVAL	10°33'51" N 72°13'15" E	2070m	13.12.2014	Buoy in Position
AD06	18°49'01" N 67°05'00" E	3300 m	24.09.2014	Buoy in position
AD07	15°00'28" N 68°54'31" E	3980 m	24.04.2014	Buoy in position
AD08	12°01'14" N 68°41'18" E	4300 m	21.04.2014	Buoy in position
AD09	08°15'58" N 73°20'13" E	2000 m	29.07.2014	Buoy in position
AD10	10°19'14" N 72°11'25" E	1982 m	01.12.2014	Buoy in position

BD= Bay of Bengal Data Buoy; AD= Arabian Sea Data Buoy; CB= Coastal Buoy