

GOVERNMENT OF INDIA  
MINISTRY OF WATER RESOURCES,  
RIVER DEVELOPMENT & GANGA REJUVENATION  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 5**  
ANSWERED ON 02.02.2017

**DEVELOPMENT OF AQUIFERS UNDER PMKSY**

5. SHRI GAURAV GOGOI

Will the Minister of WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION be pleased to state:

- (a) the total number of aquifer systems in the country along with their categories, State-wise;
- (b) whether there is any proposal for the development of aquifers, if so, the details thereof; and
- (c) whether the Government allocates funds for the development of aquifers under Pradhan Mantri Krishi Sinchayee Yojana (PMKSY), if so, the details thereof

**ANSWER**

THE MINISTER OF STATE FOR WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION

(DR. SANJEEV KUMAR BALYAN)

(a) Central Ground Water Board (CGWB) has prepared Aquifer Systems of India - 2012, according to which, the Country has been sub-divided/categorized into 14 principal aquifer systems, based on their hydro-geological characteristics. These 14 aquifer systems are : (i) Alluvium, (ii) Laterite, (iii) Basalt, (iv) Sandstone, (v) Shale, (vi) Limestone, (vii) Granite, (viii) Schist ix) Quartzite, x) Charnockite, xi) Khondalite, xii) Banded Gneissic Complex (BGC), xiii) Gneiss and xiv) Intrusives. Categorization of predominant type of aquifer systems delineated in each State is given at **Annexure**.

(b) CGWB has taken up National Programme on Aquifer Mapping and Management (NAQUIM) during XII Plan, a part of the programme includes preparation of aquifer maps and management plans. The management plans, inter-alia, include suggestions for development of aquifers in specific areas.

(c) Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) has been launched in 2015-16 to serve as a platform for convergence of investments in irrigation through comprehensive District and State irrigation plans. It envisages end to end solution in irrigation supply chain viz. water resources, distribution, efficient application and extension services.

PMKSY(Per Crop More Drop) and PMKSY (Watershed Development Component) focus on micro-level storage structure and moisture conservation/water harvesting structures respectively.

Further, this Ministry is working in convergence with the Ministry of Rural Development to work in a focused manner for recharge of the over-exploited blocks under Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA); Department of Land Resources for Watershed Management; and Ministry of Agriculture & Farmers Welfare under the PMKSY for optimal use of available water resources.

Water conservation, water harvesting and watershed management works and micro & minor irrigation works are permitted in MGNREGA programme of the Ministry of Rural Development. During the current Financial Year (2016-17), 139770 micro irrigation works have been completed, 178852 micro irrigation works are on-going with an expenditure of Rs. 228442.59 lakhs. 674403 works in respect of water conservation and water harvesting have been completed and 753383 works are on-going with an expenditure of Rs. 729182.70 lakhs under the MGNREG Scheme.

**ANNEXURE**

Annexure referred in reply to **Lok Sabha Unstarred Question No. 5** dated **02.02.2017** regarding **“Development of Aquifers under PMKSY”**

<b>S.No.</b>	<b>State</b>	<b>Predominant Lithology (Principal Aquifer System)</b>
1	Andaman & Nicobar Island	Mixed Aquifer System
2	Andhra Pradesh	BGC + Shale+ Sandstone+ Alluvium
3	Arunachal Pradesh	Shale + Granite + Mixed Aquifer System
4	Assam	Alluvium
5	Bihar	Alluvium
6	Chandigarh	Alluvium
7	Chhattisgarh	BGC+ Sandstone+ Gneiss+ Shale+ Limestone
8	Dadra & Nagar Haveli	Basalt
9	Daman & Diu	Basalt + Mixed Aquifer System
10	Delhi	Alluvium
11	Goa	Laterite + Schist
12	Gujarat	Basalt + Alluvium
13	Haryana	Alluvium
14	Himachal Pradesh	Schist + Sandstone + Limestone
15	Jammu & Kashmir	Sandstone + Granite + Shale + Alluvium
16	Jharkhand	BGC + Schist + Alluvium
17	Karnataka	BGC + Basalt + Schist
18	Kerala	Charnokites + Gneiss + Alluvium
19	Lakshwadeep	Mixed Aquifer System
20	Madhya Pradesh	Basalt + Sandstone + Alluvium + BGC
21	Maharashtra	Basalt
22	Manipur	Shale + Sandstone
23	Meghalaya	Shale + BGC
24	Mizoram	Shale
25	Nagaland	Shale + Sandstone
26	Odisha	BGC + Alluvium + Charnokite + Khondalite
27	Puducherry	Alluvium
28	Punjab	Alluvium
29	Rajasthan	Alluvium + Sandstone
30	Sikkim	Gneiss + Schist
31	Tamil Nadu	Gneiss + Charnokite + Alluvium
32	Telangana	BGC + Shale+ Sandstone+ Alluvium
33	Tripura	Sandstone + Shale
34	Uttar Pradesh	Alluvium
35	Uttarakhand	Schist+ Alluvium+ Quartzite+ Gneiss+ BGC
36	West Bengal	Alluvium

BGC → Banded Gneissic Complex

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