

**GOVERNMENT OF INDIA
MINISTRY OF HOUSING AND URBAN AFFAIRS
RAJYA SABHA
UNSTARRED QUESTION NO. 1990
TO BE ANSWERED ON AUGUST 07, 2023**

**STATUS OF SUSTAINABLE GROUNDWATER MANAGEMENT
PRACTICES UNDER AMRUT**

NO. 1990. SHRI NIRANJAN BISHI:

Will the Minister of HOUSING AND URBAN AFFAIRS be pleased to state:

- (a) a comprehensive list of Urban Local Bodies (ULBs) that practice sustainable groundwater management and the type of practice under Atal Mission for Rejuvenation and Urban Transformation (AMRUT);
- (b) the absolute number on the amount of water conserved and utilized through sustainable groundwater management under AMRUT;
- (c) whether there has been a reduction in overdependence on groundwater in urban areas under AMRUT;
- (d) the total expenditure and fund allocation for sustainable groundwater management projects under AMRUT;
and
- (e) whether Government proposes to extend sustainable groundwater management projects of AMRUT to more cities, if so, the details of any plans or initiatives?

**ANSWER
THE MINISTER OF STATE IN THE
MINISTRY OF HOUSING AND URBAN AFFAIRS
(SHRI KAUSHAL KISHORE)**

(a) to (e): Water Supply is a State subject, however, Ministry of Housing and Urban Affairs (MoHUA) has taken several steps towards sustainable management of water in urban areas through issuance of various guidelines and implementation of National Missions i.e., Atal Mission for Rejuvenation and Urban Transformation (AMRUT) & AMRUT 2.0.

AMRUT Mission focuses on development of basic urban infrastructure in the selected cities in the sectors of Water Supply; Sewerage & Septage Management; & other areas. Of the approved plan size of ₹77,640 crore, a significant amount of ₹39,011 crore (~50%) has been allocated for water supply sector.

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Under AMRUT, 470 projects have helped in converting 6,700 Million Litres per Day (MLD) of water source from ground water to surface water. States also have taken up projects related to rainwater harvesting and water bodies rejuvenation under water supply component under AMRUT. 30 water bodies have been taken up for rejuvenation. Details of 30 water bodies are at ANNEXURE-I. 7 projects related to rainwater harvesting have been taken up. Details of rain water harvesting projects are at ANNEXURE-II. These projects will aid in Sustainable management of groundwater in Urban Local Bodies.

Through 2,348 green spaces & parks projects completed under AMRUT, around 4,556 acre of green space have been developed which will help with groundwater recharge. Another, 863 acre green space will be added through ongoing Park projects.

Under AMRUT 2.0, States will be required to prepare Aquifer Management Plan which will focus on maintaining positive groundwater balance in urban aquifer systems. The cities will strategize groundwater recharge augmentation by developing a roadmap for improving rainwater harvesting within city limits. Cities will conduct aquifer mapping with technical support from Central Groundwater Board (CGWB)/ State Groundwater Board/ other agencies to identify recharge and discharge zones and integrate aquifer management into urban planning. Cities also develop an annual groundwater balance report to ascertain the current and future availability of groundwater.

2,129 Water Body Rejuvenation projects worth ₹3,751 crore (including Operation & Maintenance cost) & 999 park projects worth ₹452 crore (including Operation & Maintenance cost) have been approved by MoHUA. Through these projects 66,425 acres of area of Water bodies are planned to be rejuvenated and 11,796 acres of park/ green space area to be developed.

ANNEXURE-I REFERRED TO IN REPLY TO PART (a) to (e) OF UNSTARRED QUESTION NO. 1990 REGARDING “STATUS OF SUSTAINABLE GROUNDWATER MANAGEMENT PRACTICES UNDER AMRUT”, DUE FOR ANSWER IN THE RAJYA SABHA ON 07 AUGUST, 2023.

STATUS OF WATER BODIES REJUVENATION PROJECTS UNDER AMRUT

| S.No. | Name of State | Name of City/ Urban Local Body (ULB) | Project Title | Cost (in ₹ crore) | Status | Expenditure (in ₹ crore) | No of Water Bodies Rejuvenated | No of Water Bodies for rejuvenation (in progress) | Area of Waterbodies (in Acre) |
|-------|------------------|--|---|----------------------|----------------|-----------------------------|--------------------------------------|--|-------------------------------------|
| 1 | Himachal Pradesh | Shimla | Installation of Filtration plant for purification of water of natural springs at 13 locations | 0.33 | Work Completed | 0.33 | 13 | - | 0.000514 |
| 2 | Kerala | Guruvayur | Rejuvenation of Ponds Phase II- Tharakan Lasar Kulam | 0.5 | Work Completed | 0.5 | - | 1 | 0.23 |
| 3 | Jharkhand | Giridih | Redevelopment of Indira Park, Giridih | 1 | Work Completed | 1 | 1 | - | 1.00 |
| 4 | Jharkhand | Giridih | Development of Children Park - SAAP 3 (Year 3) (Barmasia) | 0.33 | Work Completed | 0.33 | 1 | - | 0.50 |
| 5 | Jharkhand | Dhanbad | Development of Rajendra Sarovar Park | 1 | Work Completed | 1 | 1 | - | 5.00 |
| 6 | Jharkhand | Hazaribag | Development of Park at Meetha Pond | 1 | Work Completed | 1 | 1 | - | 1.50 |
| 7 | Jharkhand | Deoghar | Development of Children Park - SAAP 3 (Year 1) (Battish & Teitish) | 0.66 | Work Completed | 0.66 | 1 | - | 1.50 |
| 8 | Jharkhand | Deoghar | Development of Children Park - SAAP 3 (Year 3) (Jalsar) | 0.67 | Work Completed | 0.67 | 1 | - | 1.50 |
| 9 | Delhi | East DMC | Rejuvenation of Shahdara Jheel | 14.17 | Work Completed | 13.7 | 1 | - | 30.00 |
| 10 | Karnataka | Ranebennur | Rejuvenation of Gangajala Doddakere Lake and Improvement of water supply in Ranebennur | 29.83 | Work Completed | 24.29 | 1 | | 259.00 |
| 11 | Kerala | Guruvayur | Rejuvenation of Ponds Phase IV- Brahmakulam | 0.5 | Ongoing (99%) | 0.33 | - | 1 | 0.18 |

| | | | | | | | | | |
|--------------|---------------|-----------|---|--------------|---------------|--------------|-----------|----------|---------------|
| 12 | Kerala | Guruvayur | Rejuvenation of Ponds Phase II- Thacharaparambil Kulam | 0.5 | Ongoing (93%) | 0.17 | - | 1 | 0.17 |
| 13 | Kerala | Guruvayur | Rejuvenation of Ponds - Vettath | 0.5 | Ongoing (90%) | 0 | - | 1 | 0.15 |
| 14 | Bihar | Gaya | Beautification/Rejuvenation of Singra Asthan Sarovar | 1.62 | Ongoing (85%) | 1.3 | - | 1 | 0.05 |
| 15 | Kerala | Guruvayur | Rejuvenation Of Ponds - KOTTAPPADY PALLICHIRA , AYYAPPAN KULAM AND MICHABHOOMIKULAM | 3.41 | Ongoing (50%) | 0.58 | - | 3 | 1.86 |
| 16 | Uttar Pradesh | Lucknow | Construction of Park, Virndhavan Scheme near Habhautmau Jheel, Lucknow | 20.16 | Ongoing (25%) | 0.79 | - | 1 | 37.07 |
| Total | | | | 76.18 | | 46.65 | 21 | 9 | 339.70 |

ANNEXURE-II REFERRED TO IN REPLY TO PART (a) to (e) OF UNSTARRED QUESTION NO. 1990 REGARDING “STATUS OF SUSTAINABLE GROUNDWATER MANAGEMENT PRACTICES UNDER AMRUT”, DUE FOR ANSWER IN THE RAJYA SABHA ON 07 AUGUST, 2023.

RAINWATER HARVESTING PROJECTS UNDERTAKEN UNDER AMRUT

| S.No. | State/UT | Name of the ULB | Project Title | Project Cost (in ₹ crore) | Status | Expenditure (in ₹ crore) |
|--------------|-------------|-----------------|---|---------------------------|----------------|--------------------------|
| 1 | Delhi | N.D.M.C. | Construction of 25 Nos. Rainwater harvesting system with storage reservoir having capacity of 50,000 liters at each location: (i) Construction cost of 25 Nos. rainwater harvesting pit with modular technology | 1.08 | Work Completed | 0.90 |
| 2 | Lakshadweep | Kavarati | 116 No's of 10,000 ltr capacity ferro-cement rainwater harvesting tanks | 0.81 | Work Completed | 0.20 |
| 3 | Lakshadweep | Kavarati | 75 No's ferro-cement rainwater harvesting tanks of 10,000 Ltr capacity | 0.50 | Work Completed | 0.50 |
| 4 | Lakshadweep | Kavarati | Construction of 10 Nos Community Rainwater Harvesting Tanks | 1.03 | Work Completed | 1.03 |
| 5 | Kerala | Kochi | Rain water Harvesting | 1.33 | Ongoing (38%) | 0.40 |
| 6 | Kerala | Kollam | Rain Water Harvesting-Phase 1 | 2.22 | Ongoing (5%) | 0.01 |
| 7 | Kerala | Kollam | Rain Water Harvesting-Phase 2 | 2.22 | Ongoing (1%) | - |
| Total | | | | 9.19 | | 3.04 |