

GOVERNMENT OF INDIA  
MINISTRY OF WATER RESOURCES,  
RIVER DEVELOPMENT & GANGA REJUVENATION  
**LOK SABHA**  
**UNSTARRED QUESTION NO. †1736**  
ANSWERED ON 20.12.2018

**IMPACT OF DECLINING GROUND WATER LEVEL ON POTABLE WATER**

†1736. SHRI SADASHIV LOKHANDE

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

- (a) whether the availability of potable water has been adversely affected due to the decline in ground water level in certain parts of the country including rural areas during the recent years;
- (b) if so, the details thereof;
- (c) the steps taken by the Government to provide financial and technical assistance to the State Governments for the purpose; and
- (d) the details of the achievements made in this regard as a result of the same?

**ANSWER**

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

(SHRI ARJUN RAM MEGHWAL)

- (a) & (b) Ground water levels in certain parts of the Country have been observed to be declining because of continuous withdrawal due to reasons such as increased demand of fresh water for various uses, vagaries of rainfall, increased population, industrialization & urbanization etc. State-wise ground water resources availability, draft and stage of development in India are given at **Annexure - I**.
- (c) & (d) Water being a State subject, initiatives on water management including conservation and artificial recharge to ground water in the Country is primarily States' responsibility.

However, as per information received from M/o Drinking Water & Sanitation (MoDWS), the Government provides technical and financial assistance to State Governments for improving the coverage of safe drinking water in rural habitations. During 2018-19, Rs. 7000.00 crore was allocated to MoDWS under National Rural Drinking Water Programme (NRDWP), out of which Rs.4246.78 crore has already been released to the States.

As per information received from Ministry of Rural Development, State-wise details of artificial recharge of wells through sand filter as completed under Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) are given at **Annexure – II**. Also, State-wise details of number of works on water conservation and water harvesting completed under MGNREGS are given at **Annexure–III**.

Besides, steps taken by the Central Government for conservation of ground water are available at the following URL: [http://mowr.gov.in/sites/default/files/MeasuresForGW-Depletion\\_2.pdf](http://mowr.gov.in/sites/default/files/MeasuresForGW-Depletion_2.pdf)

**ANNEXURE - I**

**Annexure referred to in reply to parts (a) & (b) of Unstarred Question No. †1736 to be answered in Lok Sabha on 20.12.2018 regarding “Impact of Declining Ground Water Level on Potable Water”**

**STATE-WISE GROUND WATER RESOURCES AVAILABILITY, DRAFT AND STAGE OF DEVELOPMENT IN INDIA**

(As on 31st March 2013)

(in bcm → billion cubic metre)

| Sl. No. | States / Union Territories | Net Annual Ground Water Availability | Total Annual Ground Water Draft | Stage of Ground Water Development (%) |
|---------|----------------------------|--------------------------------------|---------------------------------|---------------------------------------|
|         | <b>States</b>              |                                      |                                 |                                       |
| 1       | Andhra Pradesh             | 18.48                                | 8.1                             | 44                                    |
| 2       | Arunachal Pradesh          | 3.99                                 | 0.01                            | 0.23                                  |
| 3       | Assam                      | 28.9                                 | 4.74                            | 16                                    |
| 4       | Bihar                      | 28.49                                | 12.73                           | 45                                    |
| 5       | Chhattisgarh               | 11.9                                 | 4.4                             | 37                                    |
| 6       | Delhi                      | 0.31                                 | 0.39                            | 127                                   |
| 7       | Goa                        | 0.15                                 | 0.05                            | 37                                    |
| 8       | Gujarat                    | 19.79                                | 13.44                           | 68                                    |
| 9       | Haryana                    | 10.3                                 | 13.92                           | 135                                   |
| 10      | Himachal Pradesh           | 0.53                                 | 0.27                            | 51                                    |
| 11      | Jammu & Kashmir            | 4.82                                 | 1.18                            | 24                                    |
| 12      | Jharkhand                  | 5.99                                 | 1.35                            | 23                                    |
| 13      | Karnataka                  | 14.83                                | 9.76                            | 66                                    |
| 14      | Kerala                     | 5.66                                 | 2.63                            | 47                                    |
| 15      | Madhya Pradesh             | 34.16                                | 19.36                           | 57                                    |
| 16      | Maharashtra                | 31.48                                | 17.07                           | 54                                    |
| 17      | Manipur                    | 0.426                                | 0.004                           | 1.01                                  |
| 18      | Meghalaya                  | 2.98                                 | 0.012                           | 0.4                                   |
| 19      | Mizoram                    | 0.03548                              | 0.00104                         | 2.9                                   |
| 20      | Nagaland                   | 1.75                                 | 0.03                            | 2                                     |
| 21      | Odisha                     | 16.69                                | 5.02                            | 30                                    |
| 22      | Punjab                     | 23.39                                | 34.81                           | 149                                   |
| 23      | Rajasthan                  | 11.26                                | 15.71                           | 140                                   |
| 24      | Sikkim                     | -                                    | -                               | -                                     |
| 25      | Tamil Nadu                 | 18.59                                | 14.36                           | 77                                    |
| 26      | Telangana                  | 13.39                                | 7.77                            | 58                                    |
| 27      | Tripura                    | 2.269                                | 0.165                           | 7.3                                   |
| 28      | Uttar Pradesh              | 71.58                                | 52.76                           | 74                                    |
| 29      | Uttarakhand                | 1.97                                 | 0.99                            | 50                                    |
| 30      | West Bengal                | 26.56                                | 11.84                           | 45                                    |
|         | <b>Total (States)</b>      | <b>410.65</b>                        | <b>252.87</b>                   | <b>62</b>                             |
|         | <b>Union Territories</b>   |                                      |                                 |                                       |
| 1       | Andaman & Nicobar          | 0.378                                | 0.0037                          | 1                                     |
| 2       | Chandigarh                 | 0.0194                               | 0                               | 0                                     |
| 3       | Dadra & Nagar Haveli       | 0.063                                | 0.02                            | 32                                    |
| 4       | Daman & Diu                | 0.014                                | 0.01                            | 70                                    |
| 5       | Lakshadweep                | 0.0035                               | 0.00237                         | 68                                    |
| 6       | Puducherry                 | 0.174                                | 0.153                           | 88                                    |
|         | <b>Total (UTs)</b>         | <b>0.65</b>                          | <b>0.189</b>                    | <b>29</b>                             |
|         | <b>Grand Total</b>         | <b>411.3</b>                         | <b>253.06</b>                   | <b>62</b>                             |

**ANNEXURE -II**

Annexure referred to in reply to parts (c) & (d) of Unstarred Question No. †1736 to be answered in Lok Sabha on 20.12.2018 regarding “Impact of Declining Ground Water Level on Potable Water”

**Artificial Recharge of Well Through Sand Filter Completed Under MGNREGS**

| S.No. | State                | 2018-2019   | 2017-2018    | 2016-2017   | 2015-2016   | 2014-2015   |
|-------|----------------------|-------------|--------------|-------------|-------------|-------------|
| 1     | ANDAMAN AND NICOBAR  | 0           | 0            | 0           | 0           | 0           |
| 2     | ANDHRA PRADESH       | 0           | 0            | 0           | 0           | 0           |
| 3     | ARUNACHAL PRADESH    | 0           | 0            | 0           | 0           | 0           |
| 4     | ASSAM                | 1           | 3            | 1           | 1           | 1           |
| 5     | BIHAR                | 36          | 27           | 13          | 22          | 4           |
| 6     | DADRA & NAGAR HAVELI | 0           | 0            | 0           | 0           | 0           |
| 7     | DAMAN & DIU          | 0           | 0            | 0           | 0           | 0           |
| 8     | GOA                  | 0           | 0            | 1           | 2           | 2           |
| 9     | GUJARAT              | 71          | 102          | 47          | 18          | 11          |
| 10    | HARYANA              | 1           | 5            | 11          | 9           | 3           |
| 11    | HIMACHAL PRADESH     | 13          | 5            | 8           | 7           | 4           |
| 12    | JAMMU AND KASHMIR    | 17          | 37           | 45          | 97          | 39          |
| 13    | KARNATAKA            | 343         | 1252         | 1210        | 597         | 151         |
| 14    | KERALA               | 1980        | 4656         | 2077        | 722         | 659         |
| 15    | MADHYA PRADESH       | 838         | 1274         | 2751        | 1892        | 1509        |
| 16    | MAHARASHTRA          | 1407        | 1823         | 1292        | 572         | 55          |
| 17    | LAKSHADWEEP          | 0           | 0            | 0           | 0           | 0           |
| 18    | MANIPUR              | 0           | 0            | 1           | 3           | 3           |
| 19    | MEGHALAYA            | 6           | 6            | 3           | 3           | 2           |
| 20    | MIZORAM              | 4           | 11           | 0           | 3           | 0           |
| 21    | NAGALAND             | 0           | 0            | 1           | 1           | 0           |
| 22    | ODISHA               | 13          | 30           | 12          | 3           | 7           |
| 23    | PUDUCHERRY           | 0           | 0            | 0           | 0           | 0           |
| 24    | PUNJAB               | 5           | 19           | 22          | 12          | 14          |
| 25    | RAJASTHAN            | 232         | 356          | 83          | 38          | 18          |
| 26    | SIKKIM               | 6           | 34           | 11          | 25          | 9           |
| 27    | TAMIL NADU           | 38          | 74           | 9           | 8           | 12          |
| 28    | TRIPURA              | 0           | 48           | 0           | 4           | 2           |
| 29    | UTTAR PRADESH        | 70          | 201          | 181         | 92          | 97          |
| 30    | WEST BENGAL          | 26          | 77           | 47          | 60          | 44          |
| 31    | CHHATTISGARH         | 410         | 320          | 105         | 38          | 65          |
| 32    | JHARKHAND            | 93          | 266          | 495         | 270         | 323         |
| 33    | UTTARAKHAND          | 15          | 22           | 12          | 11          | 21          |
| 34    | TELANGANA            | 0           | 0            | 0           | 0           | 0           |
|       | <b>Total</b>         | <b>5625</b> | <b>10648</b> | <b>8438</b> | <b>4510</b> | <b>3055</b> |

**ANNEXURE - III**

Annexure referred to in reply to parts (c) & (d) of Unstarred Question No. †1736 to be answered in Lok Sabha on 20.12.2018 regarding “Impact of Declining Ground Water Level on Potable Water”

**Number of Water Conservation and Water Harvesting Works Completed Under MGNREGS**

| S.No. | State                | 2014-2015     | 2015-2016     | 2016-2017     | 2017-2018     | 2018-2019     |
|-------|----------------------|---------------|---------------|---------------|---------------|---------------|
| 1     | ANDHRA PRADESH       | 39569         | 45889         | 87343         | 42886         | 48503         |
| 2     | ARUNACHAL PRADESH    | 13            | 15            | 591           | 87            | 9             |
| 3     | ASSAM                | 552           | 571           | 915           | 2020          | 1439          |
| 4     | BIHAR                | 2463          | 3230          | 3968          | 6382          | 3572          |
| 5     | CHHATTISGARH         | 7041          | 5927          | 17013         | 18949         | 16585         |
| 6     | GOA                  | 11            | 8             | 7             | 2             | 0             |
| 7     | GUJARAT              | 4011          | 4237          | 7495          | 7372          | 4099          |
| 8     | HARYANA              | 850           | 615           | 741           | 675           | 354           |
| 9     | HIMACHAL PRADESH     | 6159          | 5742          | 7014          | 6198          | 5882          |
| 10    | JAMMU AND KASHMIR    | 1938          | 4051          | 3615          | 3000          | 1054          |
| 11    | JHARKHAND            | 18529         | 16392         | 104334        | 49523         | 10538         |
| 12    | KARNATAKA            | 16436         | 19631         | 24861         | 20026         | 12586         |
| 13    | KERALA               | 42779         | 34509         | 46132         | 27434         | 9816          |
| 14    | MADHYA PRADESH       | 23609         | 18112         | 24170         | 19328         | 13294         |
| 15    | MAHARASHTRA          | 16192         | 19780         | 22203         | 14688         | 14200         |
| 16    | MANIPUR              | 379           | 484           | 546           | 178           | 116           |
| 17    | MEGHALAYA            | 612           | 905           | 1239          | 834           | 251           |
| 18    | MIZORAM              | 260           | 366           | 476           | 814           | 775           |
| 19    | NAGALAND             | 69            | 602           | 701           | 385           | 0             |
| 20    | ODISHA               | 4390          | 4853          | 12014         | 5480          | 1411          |
| 21    | PUNJAB               | 73            | 137           | 190           | 192           | 79            |
| 22    | RAJASTHAN            | 8370          | 8531          | 16013         | 10497         | 5879          |
| 23    | SIKKIM               | 213           | 181           | 248           | 149           | 80            |
| 24    | TAMIL NADU           | 11598         | 9237          | 6420          | 10199         | 9671          |
| 25    | TELANGANA            | 5246          | 11073         | 115462        | 65259         | 7585          |
| 26    | TRIPURA              | 17115         | 9605          | 6532          | 7151          | 1585          |
| 27    | UTTAR PRADESH        | 16650         | 23111         | 44850         | 29778         | 13939         |
| 28    | UTTARAKHAND          | 1368          | 2094          | 3926          | 6401          | 4067          |
| 29    | WEST BENGAL          | 29251         | 26883         | 33077         | 35724         | 25110         |
| 30    | ANDAMAN AND NICOBAR  | 21            | 22            | 49            | 5             | 0             |
| 31    | DADRA & NAGAR HAVELI | 0             | 0             | 0             | 0             | 0             |
| 32    | DAMAN & DIU          | 0             | 0             | 0             | 0             | 0             |
| 33    | LAKSHADWEEP          | 3             | 0             | 0             | 0             | 0             |
| 34    | PUDUCHERRY           | 4             | 14            | 16            | 35            | 7             |
|       | <b>Total</b>         | <b>275774</b> | <b>276807</b> | <b>592161</b> | <b>391651</b> | <b>212486</b> |

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