

GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
LOK SABHA
UNSTARRED QUESTION NO. 3876
TO BE ANSWERED ON 09/08/2016

Sub-Soil Water

3876. SHRI E. AHAMED:

Will the Minister of ENVIRONMENT, FOREST AND CLIMATE CHANGE be pleased to state:

- (a) the details of places in the country where sub-soil water is highly contaminated and affecting the health of people, State/ UT-wise; and
- (b) the strategy evolved and contemplated to meet the situation?

ANSWER

MINISTER OF STATE (INDEPENDENT CHARGE) FOR ENVIRONMENT, FOREST AND CLIMATE CHANGE
(SHRI ANIL MADHAV DAVE)

- (a) Central Ground Water Board carries out groundwater quality assessment and monitoring across the country. Based on such assessment, locations in excess of permissible limits, as prescribed by Bureau of Indian Standards, have been identified. The State / UT-wise details are given in the annexure.
- (b) The Central Pollution Control Board & State Pollution Control Boards / Pollution Control Committees (SPCBs / PCCs) are implementing the Water (Prevention and Control of Pollution) Act, 1974 and Environment (Protection) Act, 1986 to regulate the discharge of industrial effluent and sewage in order to address groundwater contamination.

The major steps taken by the Government to control water pollution include the following:

- i. Preparation of action plan for sewage management and restoration of water quality in aquatic resources by State Governments;

- ii. Installation of Online Effluent Monitoring System to check the discharge of effluent directly into the rivers and water bodies;
- iii. Setting up of monitoring network for assessment of water quality;
- iv. Action to comply with effluent standards is taken by SPCBs / PCCs to improve the water quality of the rivers;
- v. Financial assistance for installation of Common Effluent Treatment Plants for cluster of Small Scale Industrial units;
- vi. Issuance of directions for implementation of Zero Liquid Discharge;
- vii. Issuance of directions under Section 5 of Environment (Protection) Act, 1986 to industries and under Section 18(1)(b) of Water (Prevention and Control of Pollution) Act, 1974;
- viii. Implementation of National River Conservation Plan (NRCP) for abatement of pollution in identified stretches of various rivers and undertaking conservation activities which *inter-alia* include interception & diversion of raw sewage, construction of sewerage systems, setting up of sewage treatment plants, low cost sanitation facilities, education and awareness creation, community participation, electric/improved wood crematoria and river front development.

Annexure

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF THE LOK SABHA UNSTARRED QUESTION NO. 3876 DUE FOR REPLY ON 09/08/2016 REGARDING SUB-SOIL WATER RAISED BY SHRI E. AHAMED HON'BLE MEMBER OF PARLIAMENT.

State/UT	Salinity (EC above 3000 micro mhos/ cm) (EC : Electrical Conductivity)	Fluoride (above 1.5 mg/l)	Nitrate (above 45 mg/l)	Arsenic (above 0.05 mg/l)	Iron (above 1mg/l)
Andhra Pradesh	Srikakulam, Visakhapatnam, East-Godavari, West-Godavari, Krishna, Guntur, Prakasam, Nellore, Kadapa, Kurnool, Ananthapur	Visa khapatnam, West-Godavari Krishna, Guntur, Prakasam, Nellore,Chittoor, Kadapa, Kurnool, Ananthapur, Sirkakulam	Srikakulam, Vizianagaram, Visa khapatnam, East-Godavari, West-Godavari Krishna, Guntur, Prakasam, Nellore, Chittoor, Kadapa, Kurnool, Ananthapur,		Vishakhapatnam Krishna, Guntur, Nellore, Kurnool, Chittoor, Cuddapah,
Telangana	Adilabad, Nizamabad, Karimnagar, Warangal Khammam, Medak, Mehboob Nagar, Nalgonda	Adilabad, Karimnagar, Khammam, Warangal, Mahabubnagar, Medak, Nalgonda, Rangareddy, Nizamabad	Adilabad, Nizamabad, Karimnagar, Warangal Khammam, Hyderabad, Mahabubnagar, Medak, Nalgonda, Rangareddy		Adilabad, Hyderabad, Karimnagar, Mahabubnagar, Medak, Nalgonda, Nizamabad, Ranga Reddy
Assam		Goalpara, Kamrup, KarbiAnglong, Naugaon, Golaghat, Karimganj		Sivsagar, Jorhat, Golaghat, Sonitpur, Lakhimpur, Dhemaji, Hailakandi, Karimganj, Cachar, Barpeta, Bongaigaon, Goalpara, Dhubri, Nalbari, Nagaon, Morigaon, Kamrup,Darrang&Baksha	Cachar, Darrang, Dhemaji, Dhubri, Goalpara, Golaghat, Hailakandi, Jorhat, Kamrup, KarbiAnglong, Karimganj, Kokrajhar, Lakhimpur, Morigaon, Nagaon, Nalbari, Sibsagar, Sonitpur
Arunachal Pradesh					Changlang , East Siang, Lohit, Papumpare
Bihar		Aurangabad, Banka, Bhagalpur, Gaya, Jamui, Kaimur(Bhabua), Munger, Nawada, Rohtas, Jahanabd, Lakhisarai, Sheikhpura, Nalanda	Aurangabad, Banka, Bhagalpur, Bhojpur, Darbhanga, Kaimur(Bhabua), Patna, Rohtas, Saran, Siwan	Begusarai, Bhagalpur, Bhojpur, Buxar, Darbhanga, Katihar, Khagaria, Kishanganj, Lakhisarai, Munger, Patna, Purnea, Samastipur, Saran, Vaishali, Godda, Dhanbad	Aurangabad, Begusarai, Bhojpur, Buxar, East Champaran, Gopalganj, Katihar, Khagaria, Kishanganj, Lakhisarai, Madhepura, Muzaffarpur, Nawada, Rohtas, Saharsa, Samastipur, Siwan, Supaul,

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					West Champaran
Chhattisgarh		Bastar, Balod , Balrampur, Bemetra, Bijapur , Durg, Kanker, Kondagaon, Korba, Koriya, Raigarh, Surajpur, Surguja	Bastar, Bilaspur, Dantewada, Dhamtari, Jashpur, Kanker, Kawardha, Korba, Mahasamund, Raigarh, Raipur, Rajnandgaon	Rajnandgaon	Bastar, Dantewada, Kanker, Koriya,
Delhi	New Delhi, North , South, East, West, North West, South West	East Delhi, New Delhi, North West Delhi, South Delhi, South West Delhi, North Delhi, West Delhi	East Delhi, Central Delhi, New Delhi, North Delhi, North West Delhi, South Delhi, South West Delhi, West Delhi		
Goa					North Goa , South Goa
Gujarat	Ahmedabad, Amreli, Anand, Banaskantha, Bharuch, Bhavnagar, Dahod, Jamnagar, Junagadh, Kachchh, Kheda, Mahesana, Navsari, Patan, Porbandar, Rajkot, Sabarkantha, Surat, Surendranagar, Vadodara, Narmada	Ahmedabad, Amreli, Anand, Banaskantha, Bharuch, Bhavnagar, Dahod, Gandhinagar, Jamnagar, Junagadh, Kachchh, Mehesana, Panchmahals, Patan, Porbandar, Rajkot, Sabarkantha, Surendranagar, Vadodara	Ahmedabad, Amreli, Anand, Banaskantha, Bharuch, Bhavnagar, Dahod, Jamnagar, Junagadh, Kachchh, Kheda, Mehesana, Narmada, Navsari, Panchmahals, Patan, Porbandar, Rajkot, Sabarkantha, Surat, Surendranagar, Vadodara		Ahmedabad, Banaskantha, Bhavnagar, Kachchh, Mehesana, Narmada,
Haryana	Ambala, Bhiwani, Faridabad, Gurgaon, Hissar, Jhajjar, Jind, Kaithal, Karnal, Mohendragarh, Panipat, Rewari, Rohtak, Sirsa, Sonapat	Ambali, Bhiwani, Fatehabad, Faridabad, Gurgaon, Hissar, Jhajjar, Jind, Kaithal, Karnal, Kurukshetra, Mahendergarh, Panchkula, Palwal, Panipat, Rewari, Rohtak, Sirsa, Sonapat, Yamuna Nagar	Ambala, Bhiwani, Faridabad, Fatehabad, Gurgaon, Hissar, Jhajjar, Jind, Kaithal, Karnal, Kurukshetra, Mahendargarh, Panchkula, Panipat, Rewari, Rohtak, Sirsa, Sonipat, Yamuna Nagar	Ambala, Bhiwani, Faridabad, Fatehabad, Fatehabad, Hissar, Jhajjar, Jind, Karnal, Panipat, Rohtak, Yamunanagar.	Ambala, Bhiwani, Faridabad, Fatehabad, Gurgaon, Hissar, Jhajjar, Jind, Kaithal, Karnal, Kurukshetra, Mahendargarh, Panipat, Rohtak, Sirsa, Sonipat, Yamuna Nagar
Himachal Pradesh			Una, Solan, Hamirpur, Kangra, Mandi, Kullu		
Jammu & Kashmir		Kupwara	Jammu, Kathua, Anantnag, Kupwara		Baramulla, Budgam, Kathua, Kupwara, Pulwama, Srinagar
Jharkhand		Bokaro, Dhanbad, Garhwa, Giridih, Godda,	Chatra, Garhwa, Godda, Gumla, Lohardaga, Pakur,	Sahebganj	Chatra, Deoghar, East Singhbhum, Giridih, Ranchi,

State/UT	Salinity (EC above 3000 micro mhos/ cm) (EC : Electrical Conductivity)	Fluoride (above 1.5 mg/l)	Nitrate (above 45 mg/l)	Arsenic (above 0.05 mg/l)	Iron (above 1mg/l)
		Gumla, Koderma, Pakur Palamu, Ranchi, , Sahebganj, Khunti	Palamu, PaschimiSinghbhum, PurbiSinghbhum, Ranchi, Sahibganj		West Singhbhum
Karnataka	Bagalkote, Bangalore-Rural, Bangalore-Urban, Belgaum, Bellary, Bijapur, Chamarajnapura, Chikballapur, Chikmagalur, Chitradurga, Dakshina Kannada, Davanagere, Dharwad, Gadag, Gulburga, Hassan, Haveri, Kodagu/ Coorg, Kolar, Koppal, Mandya, Mysore, Raichur, Ramanagara, Shimoga, Tumkur, Udupi, Uttara Kannada, Yadgir	Bagalkot, Bangalore(Rural), Bangalore(Urban),Belgau m, Bellary, Bidar, Bijapur, Chikaballapur Chamarajanagar, Chikmagalur, Chitradurga, Davanagere, Dharwad, Dakshina Kannada, Gadag, Gulburga, Hassan, Haveri, Kolar, Koppal, Mandya, Mysore, Raichur, Ramnagara , Shimoga, Tumkur, Yadgir, Uttara Kannada, Udupi	Bagalkot, , Bangalore, Belgaum, Bellary, Bidar, Bijapur, Chikmagalur, Chitradurga, Davanagere, Dharwad, Gadag, Gulburga, Hassan, Haveri, Kodagu, Kolar, Koppal, Mandya, Raichur. Shimoga, Udupi, Uttar Kannada	Raichur and Yadgir district	Bagalkot, Bangalore, Belgaum, Bellary, Bidar, Bijapur, Chikmagalur, Chitradurga, Dakshina Kannada, Davanagere, Gulburga, Hassan, Haveri, Kodagu, Kolar, Koppal, Mysore, Raichur, Shimoga, Tumkur, Udupi, Uttara Kannada
Kerala	Trivandrum, Kollam, Kottayam, Ernakulam	Palakkad, Alappuzha, Idukki, Ernakulam, Thiruvananthapuram	Alappuzha, Idukki, Kollam, Kottayam, Kozhikode, Malappuram, Palakkad, Pathanamthitta, Thiruvananthapuram, Thrissur, Wayanad		Alappuzha, Ernakulam, Idukki, Kannur, Kasaragod, Kollam, Kottayam, Kozhikode, Malappuram, Palakkad, Pathanamthitta, Quilon, Thiruvananthapuram, Thrissur, Wayanad
Madhya Pradesh	Balaghat, Bhind,Chhatarpur, Gwalior, Indore, Jhabua, Khargone, Morena, Neemuch, Ratlam, Rewa, Satna,Sehore, Sheopur, Shivpuri, Ujjain	Alirajpur, Balaghat, Barwani, Betul, Bhind, Bhopal,Chhatarpur, Chhindwara, Datia, Dewas, Dhar, Dindori, Guna, Gwalior, Harda, Jabalpur, Jhabua, Khargon, Mandla, Mandsaur, Morena, Narsinhpur, Neemuch, Panna, Raisen, Rajgarh, Ratlam, Sagar, Satna, Sehore, Seoni, Shahdol,	Alirajpur, Anuppur, Ashok Nagar, Balaghat, Barwani, Betul, Bhind, Bhopal, Burhanpur, Chhatarpur, Chhindwara, Damoh, Datia, Dewas, Dhar, , Dindori,Guna, Gwalior, Harda, Hoshangabad, Indore, Jabalpur, Jhabua, Khandwa, Khargon, Katni, Mandla, Mandsaur, Morena, Narsimhapur, Neemuch, Panna, Raisen, Rajgarh,		Balaghat,Barwani, Betul, Bhind, Bhopal, Chhatarpur, Chhindwara, Damoh, Datia, Dewas, Dhar, Dindori, Guna, Gwalior, Hoshangabad, Indore, Jabalpur, Jhabua, Khandwa, Katni, Mandla, Mandsaur, Narsinghpur, Neemuch, Panna, Raisen, Rajgarh,Ratlam, Rewa, Sagar, Satna, Sehore, Seoni, Shahdol, Shajapur,Shivpuri, Sidhi,Tikamgarh, Ujjain,

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		Shajapur, Sheopur, Sidhi, Shivpuri, Singrauli, Ujjain, Vidisha	Ratlam, Rewa, Sagar, Satna, Sehore, Seoni, Shahdol, Shajapur, Sheopur, Shivpuri, Sidhi, Singrauli, Tikamgarh, Ujjain, Umariya, Vidisha		Umariya, Vidisha, East Nimar
Maharashtra	Ahmednagar, Akola, Amravati, Aurangabad, Beed, Bhandara, Buldhana, Chandrapur, Dhule, Jalgaon, Jalna, Nagpur, Nasik, Pune, Raigard, Sangli, Satara, Solapur, Thane, Yavatmal	Ahmednagar, Beed, Chandrapur, Bhandara, Dhule, Gadchiroli, Gondia, Jalna, Nagpur, Nanded, Ratnagiri, Sangli, Satara, Sindhudurg, Solapur, Wardha, Yavatmal	Ahmednagar, Akola, Amravati, Aurangabad, Beed, Bhandara, Buldhana, Chandrapur, Dhule, Gadchiroli, Gondia, Hingoli, Jalgaon, Jalna, Kolhapur, Latur, Mumbai, Nagpur, Nanded, Nandurbar, Nasik, Osmanabad, Parbhani, Pune, Sangli, Satara, Solapur, Wardha, Washim, Yavatmal		Ahmednagar, Amravati, Beed, Buldhana, Chandrapur, Dhule, Gadchiroli, Jalna, Kolhapur, Latur, Nandurbar, Nashik, Osmanabad, Parbhani, Ratnagiri, Satara, Thane, Wardha, Washim, Yavatmal
Manipur				Bishnupur, Thoubal	Bishnupur, Thoubal
Meghalaya					East Garo Hills, East Khasi Hills, Jaintia Hills
Nagaland					Dimapur
Odisha	Balasore, Bhadrak, Ganjam, Jagatsingpur, Jajpur, Kendrapara, Puri	Angul, Balasore, Bhadrak, Bargarh Bolangir, Boudh, Cuttack, Deogarh Dhenkanal, Jajpur, Kandhamal, Keonjhar, Khurda, Mayurbhanj, Nayagarh, Nawapara, Ganjam, Jagatsinghpur, Kalahandi, Koraput, Puri, Rayagada, Sambalpur, Sonepur, Sundargarh	Angul, Balasore, Bargarh, Bhadrak, Bolangir, Baudh, Cuttack, Deogarh, Dhenkanal, Gajapati, Ganjam, J. Singhpur, Jajpur, Jharsuguda, Kalahandi, Kendrapara, Keonjhar, Khurda, Koraput, Malkangiri, Mayurbhanj, Nawapada, Nayagarh, Phulbani, Puri, Sambalpur, Sundergarh, Sonpur		Balasore, Bargarh, Bhadrak, Cuttack, Deogarh, J. Singhpur, Jajpur, Jharsuguda, Kalahandi, Kandmahal, Keonjhar, Kendrapara, Khurda, Koraput, Mayurbhanj, Nayagarh, Puri, Rayagada, Sambalpur, Sundergarh, Sonpur
Punjab	Bhatinda, Faridkot, Ferozpur, Gurudaspur, Mansa, Moga, Muktsar Patiala, Sangrur	Amritsar, Barnala, Bhatinda, Fazilka, Faridkot, Fatehgarh Sahib, Firozpur, Gurdaspur, Jalandhar, Ludhiana,	Amritsar, Barnala, Bhatinda, Faridkot, Fatehgarh Sahib, Firozpur, Gurdaspur, Hoshiarpur, Jalandhar, Kapurthala, Ludhiana, Mansa,	Mansa, Amritsar, Gurdaspur, Hoshiarpur, Kapurthala, Ropar.	Bhatinda, Faridkot, Fatehgarh Sahib, Firozpur, Gurdaspur, Hoshiarpur, Mansa, Rupnagar, Sangrur

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		Mansa, Moga, Muktsar, Pathankot, Patiala, Ropar, Sangrur, SAS Nagar (Mohali), Tarn-Taran	Moga, Muktsar, NawanShahr, Patiala, Ropar, Rupnagar, Sangrur, Tarn-Taran		
Rajasthan	Ajmer, Alwar, Baran, Barmar, Bharatpur, Bhilwara, Bikaner, Bundi, Chittorgarh, Churu, Dausa, Dhaulpur, Ganganagar, Hanumangarh, Jaipur, Jaisalmer, Jalore, Jhalawar, Jhunjhunu, Jodhpur, Karauli, Kota, Nagaur, Pali, Rajasamand, Sawai-Madhopur, Sikar, Sirohi, Tonk, Udaipur	Ajmer, Alwar, Banswara, Barmar, Bharatpur, Baran, Bhilwara, Bikaner, Bundi, Chittaurgarh, Churu, Dausa, Dhaulpur, Dungarpur, Ganganagar, Hanumangarh, Jaipur, Jaisalmer, Jalore, Jhalawar Jhunjhunu, Jodhpur, Karauli, Kota, Nagaur, Pali, Pratapgarh, Rajsamand, Sirohi, Sikar, Sawai Madhopur, Tonk, Udaipur	Ajmer, Alwar, Banswara, Baran, Barmar, Bundi, Bharatpur, Bhilwara, Bikaner, Chittaurgarh, Churu, Dausa, Dhaulpur, Dungarpur, Ganganagar, Hanumangarh, Jaipur, Jaisalmer, Jalore, Jhalawar, Jhunjhunu, Jodhpur, Karauli, Kota, Nagaur, Pali, Partapgarh, Rajasamand, Sirohi, Sikar, SwaiMadhopur, Tonk, Udaipur		Ajmer, Alwar, Banswara, Baran, Barmar, Bharatpur, Bhilwara, Bikaner, Bundi, Chittaurgarh, Churu, Dausa, Dhaulpur, Dungarpur, Ganganagar, Hanumangarh, Jaipur, Jaisalmer, Jalore, Jhalawar, Jhunjhunu, Jodhpur, Karauli, Kota, Nagaur, Pali, Pratapgarh, Rajsamand, Sikar, SawaiMadhopur, Sirohi, Tonk, Udaipur
Tamil Nadu	Chennai, Coimbatore, Cuddalore, Dharmapuri, Dindigul, Kancheepuram, Karur, Nagapattinam, Namakkal, Perambalur, Pudukkottai, Ramnathapuram, Salem, Sivaganga, Thanjavur, Theni, Thiruvallur, Tirunelveli, Trichchirappalli, Tuticorin, Vellore, Villupuram, Virudhunagar,	Coimbatore, Dharmapuri, Dindigul, Erode, Karur, Kancheepuram, Krishnagiri, Namakkal, Madurai, Puddukotai, Ramanathanpuram, Salem, Sivagangai, Theni, Thiruvannamalai, Tiruchirappally, Thirunelveli, Tirupur Vellore,	Chennai, Coimbatore, Cuddalore, Dharmapuri, Dindigul, Erode, Kancheepuram, Kanyakumari, Karur, Madurai, Namakkal, Nilgiris, Perambalur, Puddukotai, Ramanathanpuram, Salem, Sivagangai, Theni, Thiruvannamalai, Thanjavur, Tirunelveli, Thiruvallur, Trichy, Tuticorin, Vellore, Villupuram, Virudhunagar		Namakkal, Salem
Tripura					Dhalai, North Tripura, South Tripura, West Tripura,
Uttar Pradesh	Agra, Aligarh, Firozabad, Hamirpur, Kashganj, Kanpur Nagar, Mathura, Rae Bareli, Unnao	Agra, Aligarh, Etah, Kashiram Nagar, Firozabad, Jaunpur, , Mahamaya Nagar, Mainpuri, Mathura, Mau,	Agra, Aligarh, Allahabad, Ambedkar Nagar, Auraiya, Azamgarh, Badaun, Baghpat, Balrampur, Banda, Barabanki, Bareilly, Basti,	Bahraich, Balia, Balrampur, Bareilly, Basti, Bijnor, Chandauli, Ghazipur, Gonda, Gorakhpur,	Azamgarh, Ballia, Balrampur, Etawah, Fatehpur, Gazipur, Gonda, Hardoi, KanpurDehat, Kanpur Nagar, Lakhimpur, Lalitpur, Mau, Siddartnagar,

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		Sonbhadra, Varanasi and Unnao	Bijnor, Bulandsahr, Chitrakoot, Etah, Fatehpur, Firozabad, GB Nagar, Ghaziabad, Ghazipur, Hamirpur, Hardoi, Hathras, Jaunpur, Jhansi, Kannauj, Kanpur Dehat, Lakhimpur, Mahoba, Mathura, Meerut, Mau, Moradabad, Muzaffarnagar, Mirzapur, Raebarelli, SantRavidas Nagar, Shajahanpur, Sitapur, Sonbhadra, Sultanpur, Shravasti, Siddarth Nagar, Unnao	LakhimpurKheri, Meerut, Mirzapur, Muradabad, Rai Bareilly, SantKabir Nagar, Shajahanpur, Siddarhnagar, SantRavidasNagar, Unnao	Unnao
Uttarakhand			Dehradun, Haridwar, Udhamasinghnagar		
West Bengal	Howrah, North 24 Parganas, Purba Medinipore, South 24 Parganas	Bankura, Birbhum, Dakshindinajpur, Malda, Purulia, Uttardinajpur, South 24 Praganas	Bankura, Bardhaman	Bardhaman, Hooghly, Howrah, Malda, Murshidabad, Nadia, North24 Parganas, South 24 Parganas	Bankura, Bardhaman, Birbhum, Dakhindinajpur, E. Midnapur, Howrah, Hugli, Jalpaiguri, Kolkatta, Murshidabad, N-24 Parganas, Nadia, S-24 Parganas, Uttardinajpur, West Midnapur
Andaman & Nicobar					Andaman
Total	212 districts in 15 states	317 districts in 20 states	387 districts in 21 states	89 districts in 10 states	302 districts in 25 states and 1 UT
