

**GOVERNMENT OF INDIA
WATER RESOURCES, RIVER DEVELOPMENT AND GANAGA REJUVENATION
LOK SABHA**

UNSTARRED QUESTION NO:1071
ANSWERED ON:17.07.2014
REAL TIME WATER QUALITY MONITORING STATIONS
Kushawaha Shri Ravindra

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

- (a) whether ``Real time water quality monitoring stations`` have been installed at rivers Ganga and Yamuna for measuring their pollution level;
- (b) if so, the places where the said machinery has been installed along with the total expenditure incurred upon the same;
- (c) the salient features of the said machinery; and
- (d) the action taken on the reports generated by the stations?

Answer

THE MINISTER OF STATE FOR WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION;
PARLIAMENTARY AFFAIRS AND TEXTILES(INDEPENDENT CHARGE). (SHRI SANTOSH KUMAR GANGWAR)

(a)to(b) Yes, Madam. The Central Pollution Control Board (CPCB) and Central Water Commission (CWC) have installed a total thirteen (10 + 3 respectively) Real Time Water Quality Monitoring Stations (RTWQMS) on river Ganga, Yamuna and tributaries of Ganga (i.e. Ramganga and Gomti) at the following location, for monitoring of in-situ river water quality parameters.

- (i) River Ganga
 - 01. Haridwar- Upper Ganga Barrage (BhimGoda) by CPCB
 - 02. Kannauj (Nanamau Bridge), Downstream by CPCB
 - 03. Kanpur (Jajmau Bridge Kanpur) by CPCB
 - 04. Allahabad (Shastri Bridge), Upstream by CPCB
 - 05. Varanasi, Upstream by CPCB
 - 06. Varanasi, Downstream by CPCB
 - 07. Gandhi Ghat, Patna (Floating platform) by CPCB
 - 08. Garden Reach, Kolkata by CPCB
- (ii) River Yamuna
 - 09. Delhi Upstream, Wazirabad by CPCB
 - 10. Delhi Downstream Okhla by CPCB
 - 11. Agra by CWC
- (iii) Tributaries of Ganga
 - 12. Moradabad by CWC on river Ramganga
 - 13. Lucknow by CWC on river Gomti

The total cost of the project of CPCB at 10 locations is Rs.5.61 crore and for 3 locations of CWC is Rs.96.79 lakh excluding taxes. The total expenditure incurred so far by CPCB and CWC is Rs.2.61 crore and Rs.59.84 lakh respectively.

(c) RTWQMS of CPCB can monitor 10 parameters viz. pH, Turbidity, Electrical Conductivity (EC), Temperature, Dissolved Oxygen (DO), Dissolved Ammonia, Bio-chemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Nitrates and Chlorides as per the required frequency through sensors. The RTWQMS of CWC observe pH, EC, Temperature, DO, BOD and COD. The water quality monitoring stations provide real time data through Global System for Mobile Communications (GSM) or General Packet Radio Services (GPRS) network at every two hour interval to central receiving stations.

(d) The reports generated by CPCB at Wazirabad water intake point of Delhi station on Yamuna is consistently shared with Delhi Jal Board (DJB) and water quality of river Yamuna at Okhla is provided to Upper Yamuna River Board. RTWQMS has successfully displayed the real time water quality data in Uttar Pradesh during MahaKumbhMela at Allahabad in 2013 and during MaghMela in 2014.

The data from RTWQMS of CWC are available on website <http://cwc.rtwqms.com>.