PROJECTDEVELOPMENTDELIVERY OFSPRINT-4

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ProjectName	Project–Real-TimeRiverWaterQualityMonitoringand ControlSystem

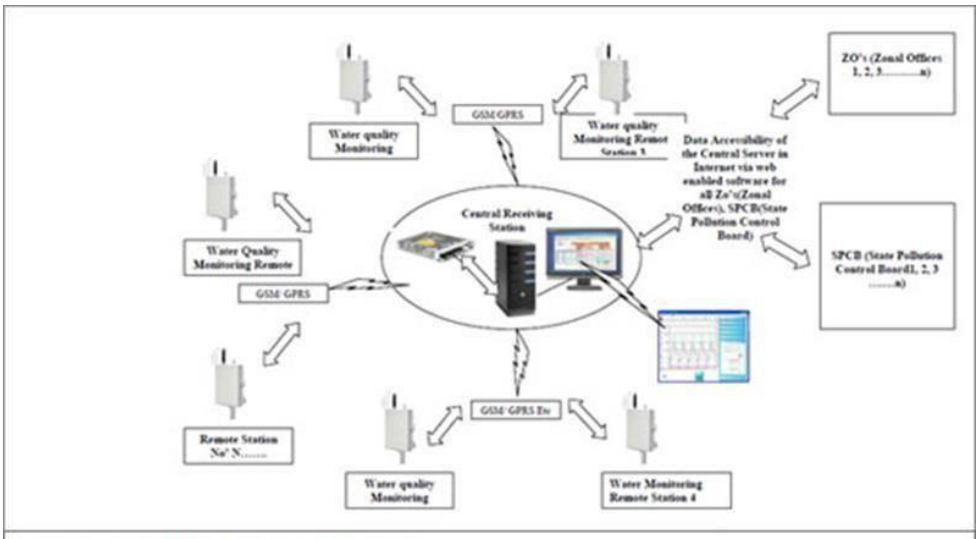
CPCBRealtimeriverwatermonitoringandcontrolsystem:

In order to eliminate problems associated with manual water qualitymonitoring,CentralPollutionControlBoard(CPCB)hasplannedto goforhi-techsolution.CPCBisplanning toinstall 'RealTimeWaterQualityMonitoringNetwork'acrossGangaBasinfortestin g ten parameters. The Ganga is the largest and the mostimportant river of India, with its watershed covering 10 Indian states,namely Uttaranchal, Uttar Pradesh, Bihar, Jharkhand, West Bengal,HimachalPradesh,Rajasthan, Haryana,MadhyaPradeshandDelhi. Discharge of untreated sewage from urban centres is a major cause ofwaterqualitydegradationintheriver.Thetotalwastewatergenerationfro m222 towns in Ganga basin is reportedly 8250 MLD, out of which2538 MLD is directly discharged into the River, 4491 MLD is disposedintoitstributariesand1220MLDisdisposedonlandorlowlying areas."RiverYamunaisoneofthemostgrossly

polluted rivers in the country. There are number of inter-state issuesandeventsofepisodalpollution.
IncaseofGanga,wehavetoaddresslarge number of petitions, RTIs, VIP references etc and the NGRBA isconstitutedforlargescaleinvestment towards STPs etc", says Dr R M Bhardwaj, Senior Scientist, CentralPollutionControlBoardThe parametersthat CPCBplanstomonitoronline are pH, turbidity, conductivity, temperature, Dissolved Oxygen,Dissolved Ammonia, Bio- chemical Oxygen Demand, Chemical OxygenDemand, nitrates and chlorides. All the stations will be operational inrealtimemodeandcentralstationwillbeabletoaccessdatafromanyof these stations. The stations will also be tolerant to extremeenvironmental conditions in India such as high or low temperature,high humidity coastal conditions and high temperature desertconditions. Moreover, the stations will be such that it won't requiremanual intervention for at-least 5 years, except for routine calibrationandbatteryreplacement.

HOWSYSTEMWORKS:

Earlier, with manual sampling we used to get analysis report of onesample in a month. But with real time monitoring, we will get at least50andamaximum of95dataeveryday.Regularandlargenumberofdata will enable us to take decision whichcan be implemented ontimeandiseffective",addsDrBhardwaj.



Source: Central Pollution Control Board