

PROBLEM STATEMENT

Real-Time River Water Quality Monitoring and Control System

Human beings need a way to **detect the quality of river water and quantity of pollutants present in it** so that **river water quality is monitored and effective measures can be taken accordingly**

QUESTION	DESCRIPTION
Who does the problem affect?	<ul style="list-style-type: none">● Human beings● Aquatic organisms
What are the boundaries of the problem?	<ul style="list-style-type: none">● All forms of water resources
When does the issue occur?	<ul style="list-style-type: none">● Fertilizers usually contain nitrogen salts which are highly soluble in water. These salts are leached away by rain water and reach the water bodies. They make the water in water bodies acidic. In this way, fertilizers cause water pollution.● Human activities that generate domestic sewage and toxic waste cause water pollution by contaminating water with disease-causing

	<p>microorganisms and poisonous substances.</p> <ul style="list-style-type: none"> ● Oil spills are another source of water pollution that have devastating impacts on surrounding ecosystems
Where is the issue occurring?	River and its subsidiary
Why is it important that we fix the problem?	<ul style="list-style-type: none"> ● Proper river water monitoring protects human health and avoid the costs related to health care, productivity loss and even loss of life. ● It avoids eutrophication and improves food chain