

# Project Design Phase-I

## Problem solution fit

Team ID	PNT2022TMID42660
Project Name	Real-Time River Water Quality Monitoring and Control System

Define CS, fit into CL	<b>1. CUSTOMER SEGMENT(S)</b> <span>CS</span> <ul style="list-style-type: none"> <li>People who utilise river water who reside in rural areas close to rivers.</li> </ul>	<b>6. CUSTOMER LIMITATIONS</b> <span>CL</span> <small>EG. BUDGET, DEVICES</small> <ul style="list-style-type: none"> <li>A system for monitoring water quality is to pinpoint specific areas where water contamination is present, people might discover it.</li> </ul>	<b>5. AVAILABLE SOLUTIONS</b> <span>AS</span> <small>(PLUSES &amp; MINUSES)</small> <ul style="list-style-type: none"> <li>It is not possible to send each person a personal notification.</li> <li>The system will continue to alert the business so they can further</li> </ul>	Explore AS, differentiate
	<b>2. PROBLEMS / PAINS</b> <span>PR</span> <small>+ ITS FREQUENCY</small> <ul style="list-style-type: none"> <li>The system for monitoring the quality river water that monitors periodically for dust particles, temperature, and PH level gave tells the general populace when the water variable quality.</li> </ul>	<b>9. PROBLEM ROOT / CAUSE</b> <span>RC</span> <ul style="list-style-type: none"> <li>We are aware that sensors are expensive and that the system requires multiple sensor to function.</li> <li>These sensor are periodically utilised to determine the water's purity and if any issue requires</li> </ul>	<b>7. BEHAVIOR</b> <span>BE</span> <small>+ ITS INTENSITY</small> <ul style="list-style-type: none"> <li>The client might utilise the offered user manual to resolve the issue or they could report and contact the corporation.</li> <li>They will look after problem.</li> </ul>	
Identify strong TR & EM	<b>3. TRIGGERS TO ACT</b> <span>TR</span> <ul style="list-style-type: none"> <li>Performing an investigation of the river's water quality to ensure that it is fit for human</li> </ul>	<b>10. YOUR SOLUTION</b> <span>SL</span> <p><b>REAL - TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM</b></p> <ul style="list-style-type: none"> <li>The water quality may be automatically monitored this technique. the sensing of water sensor has a special benefit.</li> <li>It a shorter amount of time</li> </ul>	<b>8. CHANNELS of BEHAVIOR</b> <span>CH</span> <p>ONLINE:</p> <ul style="list-style-type: none"> <li>The system may receive reviews and ratings from public.</li> <li>The hardware and software connections must be made correctly.</li> </ul>	Extract online & offline CH of BE
	<b>4. EMOTIONS</b> <span>EM</span> <small>BEFORE / AFTER</small> <p><b>BEFORE:</b> They have significant challenges in the growth of the industrial, hydro power and irrigation water.</p> <p><b>AFTER:</b> This project is implemented people</p>			