

## Project Title: Efficient Water Quality Analysis and Prediction using Machine Learning

### Project Design Phase-I - Solution Fit Template

Team ID: PNT2022TMID36055

Define CS, fit into CC	<b>1. CUSTOMER SEGMENT(S)</b> <span>CS</span> Metro Water corporation Public Works Department Environmentalists	<b>6. CUSTOMER CONSTRAINTS</b> <span>CC</span> Budget Suitable Medium Lack of workforce Sampling tools scarcity	<b>5. AVAILABLE SOLUTIONS</b> <span>AS</span> Laboratories performing chemical tests to determine TDS, BOD, etc. Government Schemes to check quality	Explore AS, differentiate
	<b>2. JOBS-TO-BE-DONE / PROBLEMS</b> <span>J&amp;P</span> Predict water quality Analyze portability Find BOD, COD viability	<b>9. PROBLEM ROOT CAUSE</b> <span>RC</span> Lack of tools and technology lack of skilled workforce Public negligence Environmental pollution Improper disposal f waste Animal faeces	<b>7. BEHAVIOUR</b> <span>BE</span> Give alerts Provide samples Assess surroundings Describe pollutants conributed	
Identify strong TR & EM	<b>3. TRIGGERS</b> <span>TR</span> Bad odour Water borne diseases	<b>10. YOUR SOLUTION</b> <span>SL</span> Analyze war quality by determining QOD Obtained visa Machine learning techniques	<b>8. CHANNELS of BEHAVIOUR</b> <span>CH</span> <b>ONLINE:</b> Apply via the application ing for sample provision <b>OFFLINE:</b> Provide samples Provide parameters	Identify strong TR & EM
	<b>4. EMOTIONS: BEFORE / AFTER</b> <span>EM</span> <b>Before:</b> Unhygienic Dejected <b>After:</b> Heard Sustainability			