

Assignment 1

Q. What is Problem Statement / Problem Definition ?

→ A problem statement is a concise description of an issue to be addressed or a condition to be improved upon. It identifies the gap between the current (problem) state and desired (goal) state of a process or product. Focusing on the facts, A problem statement is a statement of a current issue or problem that requires timely action to improve the situation. This statement concisely explains the barrier the current problem places between a functional process and/or product and the current (problematic) state of affairs. This statement is completely objective, focusing only on the facts of the problem and leaving out any subjective opinions. To make this easier, it's recommended that you ask who, what, when, where and why to create the structure for your problem statement. This will also make it easier to create and read, and makes the problem at hand more comprehensible and therefore solvable. The problem statement, in addition to defining a pressing issue, is a lead-in to a proposal of a timely, effective solution.

Q. Describe the problem faced by you earlier .

→ Most of the Indian roads are unsurfaced and are not suitable for use of vehicular traffic. Roads are not properly maintained. Poor road surfaces cause heavy loss in wear and tear of vehicles. According to one estimate there is about a per year loss of Rs. 200 crores on the wear and tear of the vehicles due to poor quality of roads. Even the National Highways suffer from the deficiencies of inadequate capacity, weak pavement, poor riding quality, distressed bridges, unabridged level crossings, congested cities (lack of by-pass roads), lack of wayside amenities and safety measures. One major problem on the Indian roads is the mixing of traffic.

Same road is used by high speed cars, trucks, two wheelers, tractors, animal driven carts, cyclists and even by animals. Even highways are not free from this malady. This increases traffic time, congestion and pollution and road accidents.

There are multiple check-posts, toll tax and octroon duties collection points on the roads which bring down the speed of the traffic, waste time and cause irritation to transporters. Rates of road taxes vary from state to state and inter-state permits are difficult to obtain. Many roads have inadequate capacity, weak pavement, unbridged level crossings and lack of wayside amenities and safety measures. The roadways are highly congested in cities and most of the bridges and culverts are old and narrow.

There has been no stability in policy relating to highway development in the country. It has changed with the change of government. There are a number of agencies which look after the construction and maintenance of different types of roads. Since there is no coordination between these agencies their decisions are often conflicting and contradictory.

Q. Define it and identify the stakeholders. Enlist the constraints associated with problem definition and formulate the objectives.

➔ Stakeholder as an “individual or group that has an interest in any decision or activity of a problem who is responsible or included in the problem.” Stakeholders can be individuals working on a problem, groups of people or organizations, or even segments of a population. A stakeholder may be actively involved in a problem work, affected by the problem outcome, or in a position to affect the problem success. Stakeholders can be an internal part of a problem organization, or external, such as customers, creditors, unions, or members of a community.

In the above problem stakeholder are Municipal corporation, public work department, contractors group of people who do not follow traffic rules government management.

Roads should be made safer by maintaining roads regularly, strike rules have to be made, and proper implementation of rules have to be made. Software has to be made to monitor the traffic signal. More lanes should be added for heavy vehicles and high speed cars. Build a recorder to save the data of the person who is not following rules.