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**Subject: ASSIGNMENTS: 3**

**Title: Water and sustainable Development**

Introduction:

The investment in the capacity building of the community in planning, development implementation and maintenance of water supply project is the first step towards sustabilbe

1. Why is community based managed essential in management of water resource?

With examples, discuss the difference between Community management and Participation.

The difference between community management and community participation are:-

1-communitity management has gone beyond community participation, it enable the community to take care of their own water supplies system improvement

2-community management has an authority to raise money or contribution towards implementation to backup the continuation of the water supply.

While community participation is the way of involving the community to the water and sanitation project at the community level, however the community participation has began as from midi of 1960s and not adopted until eighties, because the government and donors could not be able to centralized the operations and maintenance of water system, therefore in order to share the responsibilities of the maintenance the beneficiaries has to be involve in the implementation and maintenance, not only that they have to be right from the begging of planning and implementation and maintenance and to understood that maintenance is essential for the community. While the community participatory gives the host community an opportunity to play a good role in water and sanitation project, by doing

* Construction of the platform of the hand pumps
* Create awareness, within the community on how take care of the water source
* Maintenance and formation of water committee
* Tax collection from the community for the purpose of maintenance fee
* General cleaning surround the handpump.

1. Give five maintenance problems and difficulties. How can you overcome maintenance difficulties in the water supply system management?

In general most of the development countries are facing a really problems and difficulties in maintaining the water supply sources, however the limitation of covering of availability of water and cost effective as well as the water quality.

The most five problem which is affecting the maintenance and difficulties are:

* Cost effectives of program is more than installation of the water system
* High cost for maintenance equipment transportation
* Per long waiting for the mechanic has to arrive from central government
* The centralization maintenance system it does not help much because the staff is in need of motor or vehicle for movement to rapier the hand pump
* unwillingness of communities to take any initiatives to protect and prevent misuse the hand pumps because they consider that they hand pump is belong to the Government or the organization

How to overcome the problem and difficulties:-

* the capacity building or the formation of the water committee has to be done at community level
* Pump Mechanic has to be at Village level to support repair of the hand pump from time to time.
* A group from well trained mechanic as to be at state level and to be called for major repair
* At village level there is a need of the selecting of the water care committee to take care of the hand pump and maintenance
* Reinforcement of the small text collection at village level to support the maintenance program

1. What are Water technologies available in your area? Explain five.

The most water technologies available in my areas is the drilling hand pumps, soler water system, hand dug well and pipe line water system from urban water

1. How do you ensure cost effectiveness in supply of water?

With urban water system it provide water only around the areas where its line are through and is payable but yet is not sufficient due to the lack of other spar parts within the country or the technical personal or per-long working of the machine without proper maintenance, and high cost of the spar part as well as the time of arrival.