

Office of the Nagar Parishad Amarkantak dist.-Anuppur (M.P.)

Social Impact Assessment

Capillary :- With this project, There are created so many capillary surrounding the biosphere. the capillary action is the movement of water through porous materials like soil, and it can be used to help plants grow:

Capillary irrigation:- Capillary irrigation systems use capillary mats, capillary wicks, and ebb and flow systems to help plants grow. These systems can use less water than conventional irrigation methods and produce higher crop yields.

Capillary mats:-Capillary mats can be buried under soil or hung on a wall in a greenhouse. They can help seedlings grow and insulate the ground soil.

Capillary water:-Trees can use capillary water to survive heat and drought. Darker soils contain more capillary water.

Capillary action in plants:-Capillary action moves water and nutrients up into plants. For example, when you put flowers in dyed water, the water is pulled up through the stem and into the flower by capillary action. The dye doesn't evaporate, so the flower will eventually take on a colored hue.

Evaporation:- This project help for environment through evaporation process. Evaporation causes cooling naturally. The underlying principle behind this is that in order to change its state, the matter must either gain or lose energy. In the case of change of phase from liquid to gas, molecules of matter require energy to overcome their potential energy by their kinetic energy. So, the liquid takes this energy from its surroundings.

Generally, when energy transfer occurs, it results in an increase or decrease in the temperature of the substance, depending on whether the energy is being transferred from the substance to the surroundings or vice versa. However, there are exceptions to this rule.

Although there is an increase in temperature of the substance until the boiling point is attained during evaporation, phase change results in no observable heat transfer.

There is no change in temperature till the evaporation process is complete i.e. the entire liquid gets converted into vapour, the amount of energy required for this phase change is called the

latent heat of vaporization, where the word 'latent' means 'hidden', meaning this heat will not change the temperature reading on a thermometer.

Land Slide Control :-Rainfall pattern of the area and water seepage coupled with geological formation result in landslides. Water plays an important role in triggering of land slides and mass wasting processes along with other factor such as slope and nature of soil/land cover/land use. However most of the land landslides are caused by human negligence . road construction, over gazing of hill slopes, felling of trees for timber, fuel, and fodder and upslope extension of cultivation are some of main causes of land slides, gabion structures shall be provided at the base of the land slide zones to control the toe erosion by water.

Catch-water drains :- Among the most effective, practical and least expensive measures of landslide hazard management is construction of catch-water drains for run-off and surface waters in the identified hazard-prone zone so that little or no water can infiltrate in to ground. All the stream and minor watercourse would be diverted around the crown of the slide or the potentially hazardous area through catch water drains with an adequate gradient. The catch water drain when provided avoid run off to pass over such vulnerable areas and water is guided through /pucca roads. The ground surface of threatened area is leveled out to eliminate all depressions where water can accumulate.

Production:- From this project area surrounding of Bio Sphere is developed for financial activity. It helps created new business and opportunity for employment. After implementation of this project the per capita income of the people of the Local body and surrounding villages will increase as the project will boost the tourism of that area, Since Amarkantak is well known for its Natural and Cultural Beauty so the flow of the tourists will be diverted to this area due to well known tourist spot known as KAPILDHARA situated near to this project.

Afforestation :- The project also help for grow new plant and species, which is most essential element for environment and the ground water table of the area will be improved hence ultimately will be benefitted to surrounding Forrest area.


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