

ARTIFICIAL RECHARGE – DUG WELL RECHARGE THROUGH PITS

SCHEME IMPLEMENTED BY GROUNDWATER DEPARTMENT AT SREENARAYANA COLLEGE, CHEMPAZHANTHY BY KERALA GROUNDWATER DEPARTMENT

Kerala Groundwater department is implementing Artificial Recharge Schemes at various Government/Quazi Government institutions for the augmentation of Groundwater. The main schemes implementing by the department are open dug well recharge through pits, check dams & subsurface dykes.

The Rain water from the roof top is collecting through PVC pipes to the recharge pits, which are identified after detailed hydrogeological investigation by considering all parameters which are suitable for the augmentation of Groundwater Recharge. Depends upon the topography, slope, lithology, geomorphology, soil type and aquifer parameters two recharge pits with 1.6m dia and 3 mt depth were constructed near to the well in a way that it indirectly recharges the mother well. A valve that ensures that runoff from the first spell of rainfall is flushed out and does not enter the system. Top of the pit will be covered with concrete slab. The collected water slowly reaches to the mother well after filtration through the soil media. The recharge pit is provided with concrete rings with gaps so that water can recharge to the soil easily. It is expected that 50 lakhs litre per year will be recharged.



The scheme was taken up during 2019-20. The total estimated cost of the project is 3.32 lakhs. The scheme was inaugurated by Honourable Minister of Water Resources, Sri.K.Krishnankutty on 16/6/2020. The College principal Dr.Jitha, Smt Ancy Joseph, Superintending Hydrogeologist, Dr.Bindu, Senior Hydrogeologist, Sri. Pradeep, Senior Hydrogeologist and Sri S.R Assistant Executive Engineer participated in the programme. All rechrghed wells are monitoring by the department by collecting water level data.

