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Name of Topics- SIMULATION OF SPATIAL VARIABILITY OF GROUNDWATER BEHAVIOUR UNDER DIVERGED LEVELS OF PUMPING AND RECHARGE

Finding

All blocks fall under safe category after following the approach recommended by the Groundwater Resource Estimation Committee in the research (1997). Results is already verified with CGWB reports. The Groundwater Resource Estimating Committee (1997) estimation approach has been reported to be followed by the majority of Indian organizations. A water balance assessment is necessary to accurately estimate the current and future consumption of water resources and their potential for further exploitation

The ultimate purpose of a simulation study is to predict the response of the aquifer system to the anticipated changes in hydrogeological stresses. In the study area the parameters determined during calibration has been used for predicting future scenarios. Observations wells monitored by CGWB for periodic monitoring of water level has been used for model calibration and the future available data can be used for validation purposes during upcoming stress periods. It is also observed that the ground water head is not remarkable changing with time. Water level head is increasing in some observation wells and decreasing in some other wells. Proper observation wells are needed for impact assessment in future. The Stage of development is low and therefore there is no question of cell dry in the study area for coming three years. It is necessary to implement both classic water conservation measures like rainwater collecting and roof-top rainwater harvesting for groundwater recharging.