|  |  |  |
| --- | --- | --- |
| **Water Management Plan** | | |
| Details of Assessment Units | | |
|  | State | Rajasthan |
| District | Udaipur |
| Block | Mavli |
| Category as per latest Ground water assessment (2017) | Over-exploited |
| Hydrogeological Details | | |
|  | Average Annual Rainfall (1901-2016) (MM) | 568.06 |
| Aquifer | Phyllite & Gneiss "SCO2" [NC] , "GNO1" [NC] |
| Discharge of wells (lps) | |
| Dug wells | 0.25 - 0.45 |
| borewells | 0.50 - 0.55 |
| tubewells |
| Dug Cum Borewell (DCB) | NA |
| Water Quality | Fresh |
| Any other quality issue | NA |
| Annual water availability | | |
| Fresh water availability | Ground Water (MCM) | 54.12 |
| Surface water including major water bodies (MCM) | 4.19 |
| Grey water Availability | Domestic (MCM) | NA |
| Industrial (MCM) | NA |
| Annual water consumption | | |
|  | Agriculture (MCM) | 66.92 |
|  | Domestic (MCM) | 2.64 |
|  | Industrial (MCM) | NA |
|  | Decadal Water Consumption trends (2009-2017) (MCM/year) | Rise : 4.2 |
| Common Ground Water Abstraction structures | Types |  |
| Average Depth (mbgl) | |
| Dugwells | 18-30 |
| Borewells | 80-120 |
| Tubewells |
| Dug Cum Borewell (DCB) | NA |
| Future Availability | | |
|  | Surface water (MCM) | NA |
| Ground water (MCM) | 0 |
| Monitoring | | |
| Surface water monitoring | Average inflow (Cusec) | NA |
| Average outflow (Cusec) | NA |
| Quality | NA |
| Ground water monitoring | Average Depth to Water level (2019) mbgl | Pre Mon. : 16.41 Post Mon. : 5.81 |
| Average decadal water level trends (2001-2016) M/year | Pre Mon. : Fall 0.21 Post Mon. : Fall 0.20 |
| Water Management options and Mitigation | | |
| Recycle and Reuse | Reuse of Domestic waste water (MCM) | NA |
| Reuse of industrial water (MCM) | NA |
| Adaptive Management strategies | Less water required crops , Drop-irrigation tecniques, micro-irrigation, mixed crop pattern |
| Water conservation and recharge | Type of Artificial recharge RWH structure feasible | Rooftop rain water harvesting structures, trenches, recharge shafts, percolation tanks etc |

Abbreviations:

GW: Ground water

MM: Millimeter

Lps: Litre per Second

DCB: Dug Cum Borewell

MCM: Million Cubic Metre

TW: Tube Well

Mbgl : Metre below ground level

Cusec: Cubic foot per second

DTW: Depth to Water level

m/year: Metre/year