|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Water Management Plan** | | |  |  |
|  |  |  |  |  |
| Details of Assessment Unit | | |  |  |
|  | State | Rajasthan |  |  |
| District | Tonk |  |  |
| Block | Newai |  |  |
| Category as per latest Ground water assessment (2017) | Overexploited |  |  |
| Hydrogeological Details | | |  |  |
|  | Average Annual Rainfall (1985-2019) (MM) | 631.18 |  |  |
| Aquifer | AL03 (Alluvium), SH01(Schist) |  |  |
| Discharge of Wells | (lps) |  |  |
| Dugwells | 1.66-1.76 |  |  |
| Borewells | 1.60-1.70 |  |  |
| Tubewells | 1.60-1.70 |  |  |
| Dug Cum Borewell (DCB) | 1.60-1.70 |  |  |
| Water Quality | Fresh |  |  |
| Any other Quality Issue | - |  |  |
| Annual Water Availability |  |  |  |  |
| Fresh water Availability | Ground Water (MCM) | 53.52 |  |  |
| Surface water including major water bodies (MCM) | - |  |  |
| Grey water Availability | Domestic (MCM) | Not Available |  |  |
| Industrial (MCM) | Not Available |  |  |
| Annual Water Consumption | | |  |  |
|  | Agriculture (MCM) | 48.624237 |  |  |
| Domestic (MCM) | 10.232775 |  |  |
| Industrial(MCM) | - |  |  |
| Decadal Water consumption trends (2009-2017) (MCM/year) | Rise : 3.03 |  |  |
| Common Ground water Abstraction Structure | Types |  |  |  |
| Average Depth | (mbgl) |  |  |
| Dugwells | 20-30 |  |  |
| Borewells | 130-160 |  |  |
| Tubewells | 130-160 |  |  |
| Dug Cum Borewell (DCB) | 130-160 |  |  |
| Future Availability |  |  |  |  |
|  | Surface Water (MCM) | NA |  |  |
|  | Ground Water (MCM) | 0 |  |  |
| Monitoring |  |  |  |  |
| Surface Water Monitoring | Average inflow (Cusec) | Not Available |  |  |
|  | Average outflow (Cusec) | Not Available |  |  |
|  | Quality | Not Available |  |  |
| Ground Water Monitoring | Average Depth to Water level (2019) (mbgl) | PRE 2019 = 15.22 POST 2019 =9.58 |  |  |
|  | Average Decadal Water level trends M/year | PRE 0.019 POST 0.561 (Falling ) |  |  |
| Water Management options and Mitigation | | |  |  |
| Recycle and Reuse | Reuse of Domestic Waste Water (Flushing, Horticulture, Agriculture, Industry, Construction etc) (MCM) (MCM) | Not Available |  |  |
| Reuse of Industrial Water | Not Available |  |  |
| Adaptive Management strategies | Less Water required Crop, Drip Sprinkler irrigation system etc |  |  |
| Water Conservation and Recharge | Type of artificial recharge RWH structure feasible | Rooftop rain water harvesting structures, recharging the old, dry and abandoned wells, tube wells and hand pumps (urban & rural), Construction of Check Dam, Percolation Tanks, Farm pond, Recharge Shaft, Macro storage tank 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