|  |  |  |
| --- | --- | --- |
| **Water Management Plan** | | |
|  |  |  |
| Details of Assessment Unit | | |
|  | State | Rajasthan |
| District | Rajsamand |
| Block | Railmagra |
| Category as per latest Ground Water assessment (2017) | Over- Exploited |
| Hydrogeological Details |  |  |
|  | Average Annual Rainfall (1901-2016) (mm) | 587.16 |
| Aquifer (Major aquifer as per aquifer Mapping) | Schist ("SC01") |
| Discharge of Wells (lps) | |
| Dugwells | 0.86-1.38 |
| Borewells | 1.38 |
| Tubewells |
| Dug cum Borewell (DCB) | NA |
| Water Quality (Fresh/Saline) | Fresh |
| Any other Quality Issue | NA |
| Annual Water Availability |  |  |
| Fresh water Availability | Ground Water (MCM) | 13.1694 |
| Surface water including major water bodies (MCM) | 6.205 |
| Grey water Availability | Domestic (MCM) | NA |
| Industrial (MCM) | NA |
| Annual Water Consumption | | |
|  | Agriculture (MCM) | 18.5725 |
| Domestic (MCM) | 2.013 |
| Industrial (MCM) | NA |
| Decadal Water consumption trends ((2009-2017) (MCM/year) | Rise : 0.191 |
| Common Ground Water Abstraction Structure | Types (Dug well/Bore well/TW/DCB etc) | |
| Average Depth (mbgl) | |
| Dugwells | 15-30 |
| Borewells | 100-200 |
| 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 (Potable/Non potable) | NA |
| Ground Water Monitoring | Average Depth to Water level (2019) (mbgl) | Pre Mon. = 18.16 & Post Mon. = 7.47 |
| Average Decadal Water level trends (2007-2016) (m/year) | Pre Mon. Fall 0.21 & Post Mon. Fall 0.24 |
| Water Management options and Mitigation | | |
| Recycle and Reuse | Reuse of Domestic Waste Water (Flushing, Horticulture, Agriculture,Industry, Construction etc) (MCM) | NA |
| Reuse of Industrial Water (MCM) | NA |
| Adaptive Management strategies (Suggestion for Crop diversification, Micro-irrigation etc) | 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, tubewells and hand pumps ( urban and rural), Check dam, Farm ponds, Percolation tanks and anicuts etc |

Abbreviations:

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

m/year: Metre/year