|  |
| --- |
| **Water Management Plan**  |
|  |  |  |
| Details of Assessment Unit |
|   | State | Rajasthan |
| District | SawaiMadhopur |
| Block | Bamanwas |
| Category as per latest Ground water assessment (2017) | Over- Exploited  |
| Hydrogeological Details |   |   |
|   | Average Annual Rainfall (1990-2016) (MM) | 670.60 |
| Aquifer | Older alluvium, Quartzite(ALO5, QZ01) |
| Discharge of Wells | (lps) |
| Dugwells | 0.60-3.0 |
| Borewells | 6.0-10.0 |
| Tubewells | 6.0-10.0 |
| Dug Cum Borewell (DCB) | NA |
| Water Quality | Fresh |
| Any other Quality Issue |  NA |
| Annual Water Availability |   |   |
| Fresh water Availability | Ground Water (MCM) | 67.70 |
| Surface water including major water bodies (MCM) | - |
| Grey water Availability | Domestic (MCM) |  NA |
| Industrial (MCM) |  NA |
| Annual Water Consumption |
|   | Agriculture (MCM) | 66.54 |
| Domestic (MCM) | 10.94 |
| Industrial (MCM) | - |
| Decadal Water consumption trends (2009-2017) (MCM/year) | Rise: 0.8040 |
| Common GW Abstraction Structure | Types |  |
| Average Depth | (mbgl) |
| Dugwells | 20-30  |
| Borewells | 150-200 |
| Tubewells | 150-200 |
| 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 2019 = 16.42 POST 2019 =12.46 |
|   | Average Decadal Water level trends (2007-2016) M/year  | PRE -0.29 POST -0.88 (Rising ) |
| 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 | 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 Tank, Farm pond, Anicut Recharge Shaft 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