Water Management Plan

|  |  |  |  |
| --- | --- | --- | --- |
| Details of Assessment Unit | | | |
|  | State | | Rajasthan |
| District | | Dausa |
| Block | | Sikrai |
| Category as per latest Ground Water assessment (2017) | | Over-Exploited |
| Hydrogeological Details |  | |  |
|  | Average Annual Rainfall  (1990-2016) MM | | 706.20 |
| Aquifer | | (Alluvium, Quartzite)  A, Q |
| Discharge of Wells (lps) | | |
| Dugwells | | 1.30 – 1.50 |
| Borewells | | 1.35 – 1.55 |
| Tubewells | |
| Dug Cum Borewell (DCB) | | NA |
| Water Quality | | Fresh |
| Any other Quality Issue | | NA |
| Annual Water Availability | | | |
| Fresh water Availability | Ground Water (MCM) | 46.18 | |
| Surface water including major water bodies (MCM) | - | |

|  |  |  |
| --- | --- | --- |
| Grey water Availability | Domestic (MCM) | NA |
| Industrial (MCM) | NA |
| Annual Water Consumption | | |
|  | Agriculture (MCM) | 69.00 |
| Domestic (MCM) | 3.88 |
| Industrial (MCM) | NA |
| Decadal Water consumption trends (2009-2017) (MCM/year) | Rise : 0.55 |
| Common GW Abstraction Structure | Types (mbgl) | |
| Average Depth | |
| Dugwells | 25-30 |
| Borewells | 150-180 |
| Tubewells |
| Dug Cum Borewell | NA |
| Future Availability |  |  |
|  | Surface Water (MCM) | Nil |
|  | 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. 2019 = 42.45  Post Mon. 2019=38.97 |
|  | Average Decadal Water level trends (2010-2019) M/year | PRE = 1.414  POST = 1.249 |
| 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 systems 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, Mini Percolation Tank, Percolation Tank  Pacca Check dam, Recharge shaft,  Anicut, Macro Storage Tank, Farm Pond, Village Pond 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