|  |
| --- |
| **Water Management Plan Template** |
|  |  |  |
| Details of Assessment Unit |
|   | State | Rajasthan |
| District | Sikar |
| Block | Neem Ka Thana |
| Category as per latest Ground water assessment (2017) | Over Exploited (OE) |
| Hydrogeological Details |   |   |
|   | Average Annual Rainfall (MM) | 518 |
| Aquifer | Older Alluvium, Quartzite (ALO3, QZ01) |
| Discharge of Wells | (lps)  |
| Dugwells | 0.50-1.3 |
| Borewells | 1.00-1.8 |
| Tubewells |
| Dug Cum Borewell (DCB) | 1.00-1.8 |
| Water Quality |
| Any other Quality Issue | NA |
| Annual Water Availability |   |   |
| Fresh water Availability | Ground Water (MCM) | 24.5 |
| Surface water including major water bodies (MCM) | NIL |
| Grey water Availability | Domestic (MCM) | Not Available  |
| Industrial (MCM) | Not Available  |
| Annual Water Consumption |
|   | Agriculture (MCM) | 36.64 |
| Domestic (MCM) | 7.78 |
| Industrial (MCM) | 0.37 |
| Decadal Water consumption trends (2010-2019) (MCM/year) | Falling 0.051  |
| Common GW Abstraction Structure | Types |  |
| Average Depth | (mbgl)  |
| Dugwells | 20-60 |
| Borewells | 150-250 |
| Tubewells |
| Dug Cum Borewell (DCB) | 100-150 |
| 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 = 34.39 POST = 32.62 |
|   | Average Decadal Water level trends(2007-2016) M/year | Pre mon. Fall.(0.81) Post mon. fall.( 0.60) |
| Water Management options and Mitigation |
| Recycle and Reuse | Reuse of Domestic Waste Water (Flushing, Horticulture, Agriculture, Industry, Construction etc) (MCM)  | Not Available  |
| Reuse of Industrial Water (MCM) | 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), Tanka 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