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| **Water Management Plan Template** |
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| Details of Assessment Unit |
|   | State | Rajasthan |
| District | Sikar |
| Block | Patan |
| Category as per latest Ground water assessment (2017) | Over Exploited (OE) |
| Hydrogeological Details |   |   |
|   | Average Annual Rainfall (1901-2016) (MM) | 518 |
| Aquifer | Quartzite( QZ01) |
| Discharge of Wells | (lps)  |
| Dugwells | 0.50-1.0 |
| Borewells | 1.00-1.3 |
| Tubewells |
| Dug Cum Borewell (DCB) | 1.00-1.2 |
| Water Quality | Fresh |
| Any other Quality Issue | fluoride related |
| Annual Water Availability |   |   |
| Fresh water Availability | Ground Water | 10.07 |
| Surface water including major water bodies | NIL |
| Grey water Availability | Domestic (MCM) | Not Available  |
| Industrial (MCM) | Not Available  |
|   | Agriculture (MCM) | 12.68 |
| Domestic (MCM) | 2.89 |
| Industrial (MCM) | 0.51 |
| Decadal Water consumption trends (MCM/year) | New block  |
| Common GW Abstraction Structure | Types |  |
| Average Depth | (mbgl)  |
| Dugwells | 20-60 |
| Borewells | 130-180 |
| 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 = 19.85 POST = 16.05 |
|   | Average Decadal Water level trends (2009-2017) M/year | Pre mon. Fall.-0.94 Post mon. fall. -0.59 |
| 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