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| **Water Management Plan** | | |
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| Details of Assessment Unit | | |
|  | State | Rajasthan |
| District | Pratapgarh |
| Block | Arnod |
| Category as per latest Ground water assessment (2017) | Over- Exploited |
| Hydrogeological Details | | |
|  | Average Annual Rainfall (Period)1901-2016 (MM) | 882 |
| Aquifer (Major aquifer as per aquifer Mapping) | Basalt, BSO1 |
| Discharge of Wells (lps) | |
| Dugwells | 1.60-1.90 |
| Borewells | 1.80-2.10 |
| Tubewells |
| Dug Cum Borewell (DCB) | 1.70-1.80 |
| Water Quality (Fresh/Saline) | Fresh |
| Any other Quality Issue | NA |
| Annual Water Availability | | |
| Fresh water Availability | Ground Water (MCM) | 40.85 |
| Surface water including major water bodies (MCM) | 1.371 |
| Grey water Availability | Domestic (MCM) | NA |
| Industrial (MCM) | NA |
| Annual Water Consumption | | |
|  | Agriculture (MCM) | 55.07 |
| Domestic (MCM) | 1.11 |
| Industrial (MCM) | NA |
| Decadal Water consumption trends (2009-2017) (MCM/year) | Rise : 1.6701 |
| Common GW Abstraction Structure | Types (Dug well/Bore well/ TW/ DCB etc) | |
| Average Depth (mbgl) | |
| Dugwells | 20-25 |
| Borewells | 100-150 |
| 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 | NA |
| Quality (Potable/Non potable) | NA |
| Ground Water Monitoring | Average Depth to Water level (2019) (mbgl) | Pre Mon. 11.54 & Post Mon. 5.56 |
| Average Decadal Water level trends (2005-2016) (m/year) | Pre Mon. Fall 0.27 & Post Mon. Fall 0.08 |
| 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 rura), 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