Water Management Plan

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| 1. Details of Assessment Unit | | |
|  | State | Rajasthan |
| District | sirohi |
| Block | Reodar |
| Category as per latest Ground water  assessment (2017) | OE  (Over Exploited) |
| Hydrogeological Details |  |  |
|  | Average Annual Rainfall  (1901-2016) (MM) | 582.11 |
| Aquifer | ALO1(Alluvium) SCO1(Schist)  GRO2(Granite) |
| Discharge of Wells  Dugwells  Borewells  Tubewells  Dug Cum Borewell (DCB) | (lps)  2.5-3.5  2.0-2.5  2.0-2.5  2.5-3.5 |
| Water Quality | Fresh |
| Any other Quality Issue | NA |
| Annual Water Availability | | |
| Fresh water Availability | Ground Water (MCM) | 47.2563 |
| Surface water including major water bodies (MCM) | NA |

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| Grey water Availability | Domestic (MCM) | NA |
| Industrial (MCM) | NA- |
| Annual Water Consumption | | |
|  | Agriculture (MCM) | 72.8154 |
| Domestic (MCM) | 2.4640 |
| Industrial (MCM) |
| Decadal Water consumption trends (2009-2017) (MCM/year) | Rise:1.1295 |
| Common Ground water  Abstraction Structure | Types | (mbgl) |
| Average Depth  Dugwells  Borewells  Tubewells  Dug Cum Borewell (DCB) | 30-35  -  120-200  30-35  (with Horizontal&Vertical Bore) |
| Future Availability |  |  |
|  | Surface Water (MCM) | NA |
|  | Ground Water (2017) | 0 |
| Monitoring |  |  |
| Surface Water Monitoring | Average inflow (Cusec) | NA |
|  | Average outflow (Cusec) | NA |

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|  | Quality | - |
| Ground Water Monitoring | Average Depth to Water level (2019) (mbgl) | Pre: 22.05  Post: 15.25 |
|  | Average Decadal Water level trends(2007-2016) M/year | Pre : 0.51  Post : 0.50 |
| 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 |
| Water Conservation and Recharge | Type of artificial recharge RWH structure feasible | Rooftop rain Water Harvesting Structure, through wells/ tubewells/ hand pumps and ponds. subsurface dyke, Sub surface barrier ,Recharge Shaft in pond,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