**West Bengal**

West Bengal comprises of four Agro Ecological Regions (AER) 12, 15, 16 & 18.

**Agro-Eco Region12:** AER12 in West Bengal comprises of Bankura, Puruliya, Bardaman, Birhum and Pashchim Medinipur districts of Eastern (Chhotanagpnr) Plateau and Eastern Ghats under Agro Ecological Sub Region (AESR)12.3.

**Agro-Eco Region 15:** AER 15 in West Bengal comprises of Bankura, Bardaman, Birhum, Dakshin Dinajpur, Haora, Hugli, Malda, Mursidabad, Nadia, North 24 Pragana, Pashchim Medinipur, Uttar Dinajpur, Jalpaiguri, Kochbihar, Darjeeling and South 24 Parganas districts of Bengal and Assam Plain under Agro Ecological Sub Regions (AESR) 15.1&15.3.

**Agro-Eco Region 16:** AER 16 in West Bengal comprises of Darjeeling district of Eastern Himalayas under Agro Ecological Sub Region(AESR) 16.2.

**Agro-Eco Region 18:** AER 18 in West Bengal comprises of East mednipur and South 24 Parganas districts of Eastern Coastal Plain under Agro Ecological Sub Region(AESR)18.5.

**AESR 12.3:** The region is hot, dry subhumid ESR with moderately deep to deep loamy to clayey Red and Lateritic soils, medium AWC and LGP of 150-180 days in a year.

**Major NRM issues:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Bankura | **-** | **-** | Saline, GW Contaminated with F, NO3 & Fe |  |
| Bardaman | Waterlogged | **-** | - |  |
| Birhum | **-** | Low in OC & Soil deficient in N | GW Contaminated with F, NO3 & Fe |  |
| Pashchim Medinipur | Waterlogged | Soil deficient in N | GW Contaminated with Fe |  |
| Puruliya | Exclusively water erosion | Low in OC & Soil deficient in N | Saline, GW Contaminated with F & Fe |  |

**AESR 15.1:** The region is hot moist subhumid ESR with deep loamy to clayey alluvium-derived soils, medium to high AWC and LGP 210-240 days in a year.

**Major NRM issues :**

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| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Bankura | **-** | **-** | Saline, GW Contaminated with F, NO3 & Fe |  |
| Bardaman | Waterlogged | **-** | - |  |
| Birhum | **-** | Low in OC&Soil deficient in N | GW Contaminated with F, NO3 & Fe |  |
| Dakshin Dinajpur | - | - | GW Contaminated with F |  |
| Haora | Coastal Salinity | Soil deficient in P | Saline, GW Contaminated with As & Fe |  |
| Hugli | - | **-** | Saline, GW Contaminated with Fe |  |
| Malda | Waterlogged | Low in OC&Soil deficient in N | GW Contaminated with F, As & heavy metals |  |
| Mursidabad | - | **-** | GW Contaminated with NO3, As & heavy metals |  |
| Nadia | Waterlogged | **-** | GW Contaminated with F, As & heavy metals |  |
| North 24 Pragana | Coastal Salinity | Low in OC&Soil deficient in N | Saline, GW Contaminated with As, Fe & heavy metals |  |
| Pashchim Medinipur | Waterlogged | Soil deficient in N | GW Contaminated with Fe |  |
| Uttar\_Dinajpur | Waterlogged | Soil deficient in N | GW Contaminated with F & Fe |  |
| South 24 Parganas | Salt affected soils | - | Saline, GW Contaminated with F, As, Fe & heavy metals |  |

**AESR 15.3:** The region is hot moist humid to perhumid ESR with deep, loamy to clayey alluvium derived soils, medium AWC and LGP 270-300 days in a year.

**Major NRM issues :**

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| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Jalpaiguri |  | Soil deficient in N | GW Contaminated with Fe |  |
| Kochbihar |  | Soil deficient in N & K | GW Contaminated with As |  |

**AESR 16.2:** The region is warm perhumid ESR with shallow to medium deep loamy Brown and Red Hill soils, low to medium AWC and LGP 300 days in a year.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Darjeeling | **-** | Soil deficient in N | - |  |

**AESR 18.5:** The region is hot moist subhumid to humid ESR with deep, loamy to clayey Coastal and deltaic alluvium-derived soils, medium AWC and LGP 240-270 days in a year.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Eastmednipur | Coastal Salinity | Low in OC, Soil deficient in N, Zn, B & S | Saline |  |
| South 24 Parganas | Salt affected soils | Low in OC, Soil deficient in Zn & B | Saline , GW Contaminated with F, As, Fe & heavy metals |  |