**West Bengal**

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

**Agro-Eco Region 12:** AER 12 in West Bengal comprises of Bankura, Bardaman, Birhum, Pashchim Medinipur and Puruliya 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, Jalpaiguri, Malda, Mursidabad, Nadia, North 24 Pragana, Pashchim Medinipur, Kochbihar, South 24 Parganas and Uttar\_Dinajpur 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 only one 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.

**Major NRM issues :**

**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.

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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 |  |
| 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 hot moist subhumid ESR with deep loamy to clayey alluvium-derived soils, medium to high AWC and LGP 210-240 days in a year.

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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 | - | Soil deficient in N | 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 | Low in OC | 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 | **-** | GW Contaminated with Fe |  |
| South 24 Parganas | Salt affected soils | - | Saline GW Contaminated with F, As, Fe & heavy metals |  |
| Uttar\_Dinajpur | Waterlogged | Soil deficient in N | GW Contaminated with F & Fe |  |

**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.

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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.

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| **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.

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