**Major NRM issues :**

**AESR 8.1:** The region is hot dry semi-arid ESR with moderately deep to deep, loamy to clayey, mixed Red and Black soils, medium AWC and LGP 90-120 days in a year.

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Coimbatore | Exclusively water erosion & Exclusively acid soils | Low in OC, Soil Deficient in N & P | Saline GW Contaminated with F & NO3 | **-** |
| Dindigul | Exclusively water erosion & Acid soils under water erosion | Low in OC, Soil Deficient in N | Saline GW Contaminated with F, NO3 & heavy metals | **-** |
| Kanyakumari | **-** | Low in OC, Soil Deficient in N | GW Contaminated with NO3 | **-** |
| Madurai | Exclusively water erosion | Low in OC, Soil Deficient in N | GW Contaminated with NO3 | Moderately prone to Flood & Drought |
| Ramanathapuram | Coastal Salinity | Low in OC, Soil Deficient in N | Saline GW Contaminated with F, NO3, As& Fe | **-** |
| Teni | Exclusively water erosion | Low in OC, Soil Deficient in Zn, Fe, S, N & P | Saline GW Contaminated with F, NO3 & heavy metals | Moderate vulnerability to Drought |
| Tirunelveli | Exclusively water erosion & Coastal Salinity | Low in OC, Soil Deficient in Zn, N & B | Saline GW Contaminated with F, NO3 & As | Highly prone to Flood & Drought |
| Tiruppur | - | Low in OC, Soil Deficient in N & P | Saline GW Contaminated with F & NO3 | Highly prone to Drought |
| Tuticorin | **-** | Low in OC, Soil Deficient in N, Fe, B & P | Saline GW Contaminated with F, NO3 & As | **-** |
| Virudhunagar | **-** | Low in OC, Soil Deficient in Zn, Fe, B, S, N & P | Saline GW Contaminated with F & NO3 | Moderate vulnerability to Drought |

**AESR 8.2:** The region is hot moist semi-arid ESR with medium to deep Red loamy soils, low AWC and LGP 120-150 days in a year.

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Krishnagiri | **-** | Low in OC, Soil Deficient in N & P | Saline GW Contaminated with F | **-** |

**AESR 8.3:** The region is hot moist semi-arid ESR with deep red loamy soils, low AWC and LGP 120-150 days in a year.

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Ariyalur | Exclusively water erosion | Low in OC, Soil Deficient in N & S | GW Contaminated with As | Moderate vulnerability to Drought |
| Cuddalore | Coastal Salinity | Low in OC & Soil Deficient in B, S & N | Saline GW Contaminated with NO3, As & heavy metals | High vulnerability to Flood & Drought |
| Dharampuri | Exclusively water erosion | Low in OC, Soil Deficient in Fe, B, S, N & P | Saline GW Contaminated with F & NO3 | **-** |
| Erode | - | Low in OC, Soil Deficient in Zn, Fe, B, S, N & P | Saline GW Contaminated with F , NO3 & heavy metals | Moderately prone to Drought |
| Kanchipuram | Coastal Salinity | Low in OC, Soil Deficient in N & B | Saline GW Contaminated with F , NO3 & heavy metals | **-** |
| Karur | Exclusively water erosion | Low in OC, Soil Deficient in N & B | Saline GW Contaminated with F & NO3 | Moderately prone to Drought |
| Krishnagiri | - | Low in OC, Soil Deficient in N & P | Saline GW Contaminated with F | **-** |
| Namakkal | Exclusively water erosion | Low in OC, Soil Deficient in B, S, N & P | Saline GW Contaminated with F , NO3 & Fe | Moderately prone to Drought |
| Perambalur | Exclusively water erosion | Low in OC, Soil Deficient inFe, B, S, N & P | Saline GW Contaminated with F & NO3 | **-** |
| Pudukkottai | Coastal Salinity | Low in OC & Soil Deficient in N | Saline GW Contaminated with F , NO3 | **-** |
| Salem | Exclusively water erosion | Low in OC, Soil Deficient in N & P | Saline GW Contaminated with F, NO3 | **-** |
| Sivaganga | - | Low in OC, Soil Deficient in Zn, Fe, Cu & N | Saline GW Contaminated with F , NO3 | **-** |
| Thanjavur | - | Low in OC, Soil Deficient in B & N | Saline GW Contaminated with F , NO3 | Highly prone to Flood, Drought & Cyclone |
| Tiruchirappalli | Exclusively water erosion | Low in OC, Soil Deficient in B & N | Saline GW Contaminated with As | **-** |
| Tiruvallur | Exclusively water erosion | Low in OC & Soil Deficient in N | Saline GW Contaminated with F , NO3 , As & heavy metals | **-** |
| Tiruvannamalai | - | Low in OC & Soil Deficient in N | Saline GW Contaminated with F & NO3 | **-** |
| Tuticorin | - | Low in OC, Soil Deficient in N & P | Saline GW Contaminated with F , NO3 & As | **-** |
| Vellore | - | Low in OC, Soil Deficient in N & P | Saline GW Contaminated with F & As | **-** |
| Villupuram | Exclusively sodic soils | Low in OC & Soil Deficient in N | Saline GW Contaminated with F & NO3 | **-** |

**AESR 18.1:** The region is hot dry semi-arid ESR with deep, loamy to clayey, alkaline Coastal and deltaic alluvium-derived soils, medium AWC and LGP 90-120 days in a year.

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Ramanathapuram | Coastal Salinity | Low in OC, Soil Deficient in N | Saline GW Contaminated with F , NO3 & As | **-** |

**AESR 18.2:** The region is hot moist semi-arid ESR with deep, clayey and cracking Coastal land Deltaic alluvium derived soils, high AWC and LGP 120-150 days in a year.

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Chennai | **-** | **-** | Saline GW Contaminated with NO3 | Highly prone to Flood & Cyclone |
| Nagapattinam | Waterlogged | **-** | Saline GW Contaminated with NO3 & As | High vulnerability to Flood, Drought & Cyclone |
| Thiruvarur | Exclusively water erosion | Low in OC & Soil Deficient in N | Saline GW Contaminated with F & As | **-** |

**AESR 19.2:** The region is hot moist subhumid to humid transitional ESR with deep, loamy to clayey Red and Lateritic soils, low to medium AWC and LGP 210-270 days in a year.

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Coimbatore | Exclusively water erosion | Low in OC, Soil Deficient in N & P | Saline GW Contaminated with F & NO3 | **-** |
| Kanyakumari | Acid soils under water erosion | Low in OC & Soil Deficient in N | - | **-** |
| Nilgiri | Acid soils under water erosion | Soil Deficient in N | GW Contaminated with NO3 |  |