**Major NRM issues :**

**AESR 12.1 :** The region is hot moist subhumid ESR with deep loamy Red and Lateritic soils, low to medium AWC and LGP 180-210 days in a year.

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Anugul | Exclusively water erosion | Soil deficient in Zn, B, N & P | Saline, GW Contaminated with F, NO3 & Fe | **-** |
| Balangir | Exclusively water erosion | Soil deficient in Zn, N & P | Saline, GW Contaminated with F, NO3 & Fe | **-** |
| Baleshwar | **-** | Low in OC , Soil deficient in Zn, Cu, B, N, P & K | Saline, GW Contaminated with F, NO3 & Fe | Highly prone to Flood, Drought & Cyclone |
| Baragarh | Exclusively water erosion | Low in OC , Soil deficient in B, N & P | - | **-** |
| Bauda | Exclusively water erosion | Soil deficient in N & P | - | **-** |
| Bhadrak | Exclusively saline soils | Soil deficient in N, P & K | Saline, GW Contaminated with F, NO3 & Fe | Highly prone to Flood, Drought & Cyclone |
| Cuttack | Exclusively water erosion | Soil deficient in Cu, B, N & P | GW Contaminated with F, NO3 & Fe | Moderately prone to Flood, Drought & Cyclone |
| Deogarh | Exclusively water erosion | Low in OC , Soil deficient in Zn, B, N & P | - | **-** |
| Jharsuguda | Exclusively water erosion | Low in OC , Soil deficient in B, N & P | GW Contaminated with NO3 & Fe | **-** |
| Kalahandi | Exclusively water erosion & Water erosion under open forest | Low in OC , Soil deficient in B, S, N & P | - | **-** |
| Kandhamal | **-** | Low in OC , Soil deficient in B, S, N & P | - | **-** |
| Kendujhar | Water erosion under open forest | Low in OC , Soil deficient in Zn, B, S, N, P & K | GW Contaminated with F, NO3 & Fe | **-** |
| Koraput | Exclusively water erosion & Water erosion under open forest | Low in OC, Soil deficient in Zn, N & P | Saline, GW Contaminated with F, NO3 & Fe | Moderately prone to Flood & Cyclone |
| Malkangiri | Exclusively water erosion & Water erosion under open forest | Low in OC, Soil deficient in B &N | GW Contaminated with NO3 & Fe | **-** |
| Nabarangapur | Exclusively water erosion | Low in OC, Soil deficient in N & B | GW Contaminated with Fe | **-** |
| Nuapadha | Exclusively water erosion | Low in OC , Soil deficient in Zn, Fe, Cu, Mn, B, S, N & P | GW Contaminated with F, NO3 & Fe | **-** |
| Rayagarha | Exclusively water erosion & Water erosion under open forest | Low in OC , Soil deficient in N & P | Saline, GW Contaminated with F& Fe | Moderately prone to Flood |
| Sambalpur | Exclusively water erosion | Low in OC , Soil deficient in Zn, B, S, N & P | GW Contaminated with F, NO3 & Fe | **-** |
| Subarnapur | **-** |  | - | **-** |
| Sundargarh | Exclusively water erosion & Water erosion under open forest | Soil deficient in Zn, Fe, Cu, Mn, B, S & N | GW Contaminated with F, NO3 & Fe | Moderately prone to Drought & Cyclone |

**AESR 12.2 :** The region is hot moist subhumid ESR with medium to deep loamy Red and Lateritic soils, medium AWC and LGP 180-210 days in a year.

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Bhadrak | Exclusively saline soil | Soil deficient in Cu, B, N, P & K | Saline GW contaminated with F, NO3 & Fe | Highly prone to Flood, Drought & Cyclone |
| Cuttack | Exclusively water erosion | Soil deficient in B, S, N & P | GW contaminated with F, NO3 & Fe | Moderately prone to Flood, Drought & Cyclone |
| Dhenkanal | Exclusively water erosion | Low in OC, Soil deficient in Cu, S, N & P | Contaminated with F, NO3 & Fe | **-** |
| Gajapathi | Exclusively water erosion & Water erosion under open forest | Soil deficient in Zn, B & N | Saline GW contaminated with F, NO3 & Fe | Highly prone to Flood, Drought & Cyclone |
| Ganjam | Exclusively water erosion & Water erosion under open forest | Soil deficient in Zn, B, N & P | GW Contaminated with F, NO3 & Fe | Highly prone to Flood, Drought & Cyclone |
| Jajapur | - | Low in OC, Soil deficient in N, P & K | Saline GW contaminated with F, NO3 , Fe & heavy metals | **-** |
| Khordha | **-** | Soil deficient in N & P | GW contaminated with F, NO3 & Fe | Highly prone to Flood, Drought & Cyclone |
| Nayagarh | Exclusively water erosion | Low in OC, Soil deficient in B & P | GW contaminated with F, NO3 & Fe | Highly prone to Flood, Drought & Cyclone |
| Rayagarha | Exclusively water erosion & Water erosion under open forest | Low in OC, Soil deficient in N & P | Saline GW contaminated with F& Fe | Moderately prone to Flood |

**AESR 12.3 :** The region is hot moist subhumid ESR with medium to deep loamy Red and Lateritic soils, medium AWC and LGP 180-210 days in a year.

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Kendujhar | Water erosion under open forest | Low in OC, Soil deficient in Zn, B, S, N, P & K | GW contaminated with F, NO3 & Fe | **-** |

**AESR 18.4 :** The region is hot dry subhumid ESR with deep, loamy to clayey Coastal and deltaic alluvium derived soils, medium AWC and LGP 180-210 days in a year.

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Ganjam | Exclusively water erosion & Water erosion under open forest | Soil deficient in N, P, Zn & B | Saline, GW Contaminated with F, NO3 & Fe | Highly prone to Flood, Drought & Cyclone |
| Jagatsinghapur | - | Low in OC, Soil deficient in N, P, B & S | Saline, GW Contaminated with F, NO3 & Fe | Highly prone to Flood & Drought |
| Khordha | **-** | Soil deficient in N & P | GW contaminated with F, NO3 & Fe | Highly prone to Flood, Drought & Cyclone |
| Puri | - | Low in OC, Soil deficient in N, P, K, B & Zn | Saline, GW Contaminated with F, NO3 & Fe | Highly prone to Flood, Drought & Cyclone |

**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*** |
| Baleshwar | **-** | Low in OC, Soil deficient in Zn, Cu, B, N, P & K | - | Highly prone to Flood, Drought & Cyclone |
| Jagatsinghapur | - | Low in OC, Soil deficient in N, P, B & S | Saline, GW Contaminated with F, NO3 & Fe | Highly prone to Flood & Drought |
| Kendraparha | - | Low in OC, Soil deficient in N, P, Fe & B | Saline, GW Contaminated with NO3 & Fe | Highly prone to Flood & Cyclone |