**Major NRM issues :**

**AESR 11:** The region is hot moist/dry subhumid transitional ESR with deep loamy to clayey Red and Yellow soils, medium AWC and LGP 150-180 days in a year.

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Chatra | Exclusively water erosion | Low in OC,Soil deficient in N & Zn | Mostly Rainfed , GW Contaminated with NO3 & Fe | **-** |
| Garhwal | Exclusively water erosion | Soil deficient in B | Mostly Rainfed , GW Contaminated with F & NO3, | - |
| Gumla | Exclusively water erosion & Water erosion under open forest | Low in OC,Soil deficient in P, B & S | Mostly Rainfed , GW Contaminated with F & NO3 | **-** |
| Hazaribagh | Exclusively water erosion, Water erosion under open forest & Acid soils under water erosion | Low in OC,Soil deficient in N & P | Mostly Rainfed , | **-** |
| Kodarma | Exclusively water erosion | Low in OC, Soil deficient in N, P & K | Mostly Rainfed , GW Contaminated with F | **-** |
| Latehar | - | Low in OC,Soil deficient in N, P, Zn & S | Mostly Rainfed , | **-** |
| Lohardaga | Exclusively water erosion | Low in OC,Soil deficient in N & P | Mostly Rainfed , GW Contaminated with NO3 & As | **-** |
| Palamu | Exclusively water erosion & Water erosion under open forest | Soil deficient in P, K & Mn | Mostly Rainfed , GW Contaminated with F & NO3 | **-** |
| Ranchi | Exclusively water erosion & Acid soils under water erosion | Soil deficient in N & P | Mostly Rainfed , GW Contaminated with F, NO3 & Fe | **-** |
| Simdega | - | Soil deficient in N & P | Mostly Rainfed , | **-** |

**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*** |
| Bokaro | Exclusively water erosion | Soil deficient in P | Mostly Rainfed , GW Contaminated with F | Moderately prone to Drought |
| Devgarh | Exclusively water erosion | Soil deficient in B | Mostly Rainfed , GW Contaminated with Fe | **-** |
| Dhanbad | Exclusively water erosion | Soil deficient in K | Mostly Rainfed , GW Contaminated with F | **-** |
| Dumka | Exclusively water erosion | Low in OC, Soil deficient in N, K , P & B | Mostly Rainfed , | **-** |
| Giridih | Exclusively water erosion | Low in OC, Soil deficient in P & S | Mostly Rainfed , GW Contaminated with F & Fe | Moderately prone to Drought |
| Jamtara | - | Low in OC, Soil deficient in P, Zn & B | Mostly Rainfed , | **-** |
| Kunti | - | Soil deficient in P, B & Zn | Mostly Rainfed , GW Contaminated with F | **-** |
| Pakur | Exclusively water erosion | Low in OC, Soil deficient in N, K & B | Mostly Rainfed , GW Contaminated with F & NO3 | **-** |
| Paschim Singhbhumi | Exclusively water erosion | Low in OC, Soil deficient in K & Fe | GW Contaminated with NO3 & Fe | **-** |
| Purbi Singhbhumi | Exclusively water erosion | Soil deficient in N, K & P | Mostly Rainfed , GW Contaminated with NO3 & Fe | **-** |
| Ramgarh | - | Soil deficient P | Mostly Rainfed , | **-** |
| Ranchi | Exclusively water erosion & Acid soils under water erosion | Soil deficient in N | Mostly Rainfed , GW Contaminated with F, NO3 & Fe | **-** |
| Sahebganj | Exclusively water erosion | Soil deficient in P | Mostly Rainfed , GW Contaminated with F, NO3  & As | **-** |
| Saraikela | - | Soil deficient in N & P | Mostly Rainfed , | **-** |

**AESR 13.1:** The region is hot dry to moist subhumid transitional ESR with deep, loamy alluvium-derived 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*** |
| Gooda | Exclusively water erosion | Soil deficient in N & P | Mostly Rainfed , GW Contaminated with F & NO3 | **-** |
| Sahebganj | Exclusively water erosion | Soil deficient in P | Mostly Rainfed , GW Contaminated with F, NO3  & As | **-** |

**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.

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Pakur | Exclusively water erosion | Low in OC, Soil deficient in N, K & B | Mostly Rainfed , GW Contaminated with F & NO3 | **-** |
| Sahebganj | Exclusively water erosion | Soil deficient in P | Mostly Rainfed , GW Contaminated with F, NO3 & Fe | **-** |