**Major NRM issues :**

**AESR 5.2 :** The region is hot moist semi-arid ESR with medium and deep, clayey Black soils (shallow black soils as inclusions), medium to 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*** |
| Nandurbar | Exclusively water erosion & Water erosion under open forest | Soil deficient in N , P, Zn, B & S | GW saline, Contaminated with NO3 & Fe | Highly prone to drought |

**AESR 6.1 :** The region is hot dry semi-arid ESR with shallow and medium loamy Black soils (deep clayey Black soils as inclusion), medium to high AWC and LGP 90-120 days in a year.

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| Districts | *Land degradation* | *Soil health & fertility* | *Water related constraints* | *Environmental constraints* |
| Ahmadnagar | Exclusively water erosion, Exclusively acid soils & Eroded sodic soils | Soil deficient in N & S | GW saline, Contaminated with F, NO3 & Fe | Highly prone to drought |
| Bid | Exclusively water erosion | Low In OC, Soil deficient in N, Zn, Fe, B & S | GW Saline, Contaminated with F, NO3, Fe & heavy metals | Highly prone to drought |
| Osmanabad | Exclusively water erosion | Low In OC, Soil deficient in N, Zn, Fe, B & S | GW Contaminated with NO3, Fe & heavy metals | Highly prone to drought |
| Pune | Exclusively water erosion & Water erosion under open forest | Soil deficient in N, Zn, Fe, B & S | GW Saline, Contaminated with NO3 & heavy metals | Moderately prone to flood & drought |
| Sangli | Exclusively water erosion | Low In OC , Soil deficient in N, P, Zn & Fe | GW Saline, Contaminated with F, NO3 & heavy metals | Highly prone to drought |
| Satara | Exclusively water erosion | Soil deficient in Zn & Fe | GW Saline, Contaminated with F, NO3 & Fe | Highly prone to drought |
| Solapur | Exclusively water erosion | Low In OC , Soil deficient in N, P, Zn, Mn, B, S & Fe | GW Saline, Contaminated with F & NO3 | Highly prone to drought |

**AESR 6.2 :** The region is hot moist semi-arid ESR with shallow and medium loamy to clayey Black soils (medium land deep clayey Black soils as inclusion), medium to 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*** |
| Aurangabad | Exclusively water erosion | Soil deficient in B, S, Zn & Fe | GW Saline, Contaminated with NO3 & heavy metals | Highly prone to flood & drought |
| Dhule | Exclusively water erosion | Low in OC, Soil deficient in N, Fe & B | GW Saline, Contaminated with NO3, Fe & heavy metals | Highly prone to drought |
| Hingoli | **-** | Soil deficient in B, S & Zn | GW Saline, Contaminated with NO3 | Highly prone to drought |
| Jalgaon | Exclusively water erosion | Low in OC & Soil deficient in N | GW Saline, Contaminated with NO3 | Highly prone to flood & drought |
| Jalna | **-** | Soil deficient in B, S, Zn & Fe | GW Saline, Contaminated with F, NO3 & heavy metals | Moderately prone to drought |
| Latur | Exclusively water erosion | Soil deficient in N , B & Fe | GW Contaminated with NO3 , Fe & heavy metals | Moderately prone to drought |
| Nanded | **-** | Soil deficient in N , B, S, Zn & Fe | GW Contaminated with F, NO3 & heavy metals | Highly prone to drought |
| Nandurbar | Exclusively water erosion & Water erosion under open forest | Low in OC, Soil deficient in N, B, S, Zn & Fe | GW Saline, Contaminated with NO3 & Fe | Highly prone to drought |
| Parbhani | **-** | Low in OC, Soil deficient in N, B, S, Zn & Fe | GW Contaminated with NO3, Fe& heavy metals | Highly prone to drought |

**AESR 6.3 :** The region is hot moist semi-arid ESR with medium land deep clayey Black soils (shallow loamy to clayey Black soils as inclusion), medium to 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*** |
| Akola | Exclusively saline soils | Low in OC, Soil deficient in N, B, S, Zn & Fe | GW Saline, Contaminated with NO3 & heavy metals | Highly prone to drought |
| Amaravati | Exclusively water erosion & Water erosion under open forest | Low in OC, Soil deficient in N, B, S, Zn & Fe | GW Saline, Contaminated with NO3 & Fe | Moderately prone to flood & drought |
| Buldhana | **-** | Soil deficient in N, Zn, Fe & S | GW Saline, Contaminated with NO3, Fe & heavy metals | Highly prone to drought |
| Jalgaon | Exclusively water erosion | Low in OC, Soil deficient in N, B & S | GW Saline, Contaminated with NO3 | Highly prone to flood & drought |
| Nasik | Exclusively water erosion & Water erosion under open forest | Soil deficient in N, Zn, Fe, B & S | GW Saline, Contaminated with NO3 | Moderately prone to flood & drought |
| Washim | **-** | Low in OC, Soil deficient in N, Zn, Fe & S | GW Contaminated with NO3, Fe & heavy metals | Moderately prone to drought |
| Yavatmal | Exclusively water erosion | Low in OC & Soil deficient in N | GW Saline, Contaminated with F, NO3, Fe & heavy metals | - |

**AESR 6.4 :** The region hot dry subhumid ESR.

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Kolhapur | Exclusively water erosion | Soil deficient in Zn, Fe, B & S | GW Contaminated with Fe | **-** |
| Pune | Exclusively water erosion & Water erosion under open forest | Soil deficient in N, Zn, Fe, B & S | GW Saline, Contaminated with NO3  & heavy metals | Moderately prone to flood & drought |
| Sangli | Exclusively water erosion | Low in OC, Soil deficient in N, P, Zn & Fe | GW Saline, Contaminated with F, NO3  & heavy metals | Highly prone to Drought |
| Satara | Exclusively water erosion | Soil deficient in Zn & Fe | GW Saline, Contaminated with F, NO3 , Fe & heavy metals | Highly prone to Drought |

**AESR 10.2 :** The region is hot dry subhumid ESR with shallow and medium loamy to clayey Black soils (deep clayey Black soils as inclusion), medium to high AWC and LGP 150-180 days in a year.

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Amaravati | Exclusively water erosion & Water erosion under open forest | Low in OC, Soil deficient in N, Zn, Fe, B & S | GW Saline, Contaminated with NO3 , Fe & heavy metals | Moderately prone to flood & drought |
| Nagpur | Exclusively water erosion | Low in OC, Soil deficient in N, K & Fe | GW Saline, Contaminated with F, NO3  & heavy metals | Highly prone to Drought |
| Wardha | Exclusively water erosion | Soil deficient in Zn, Fe, B & S | GW Saline, Contaminated with F, NO3 , Fe & heavy metals | **-** |

**AESR 10.4 :** The region is hot moist subhumid ESR with shallow to deep loamy to clayey mixed Red and Black 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*** |
| Bhandara | **-** | Low in OC, Soil deficient in N, Zn, Fe, B & S | GW Saline, Contaminated with F & NO3 | **-** |
| Gondiya | Exclusively water erosion | Low in OC, Soil deficient in N, Zn, Fe & S | GW Saline, Contaminated with F & NO3 | Moderately prone to drought |

**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*** |
| Chandrapur | Exclusively water erosion | Low in OC & Soil deficient in N, Zn, Fe, B & S | GW Saline, Contaminated with F & NO3 | Moderately prone to drought |
| Gadchiroli | Exclusively water erosion | Soil deficient in Zn, Fe & S | GW Contaminated with F, NO3 , Fe & heavy metals | Moderately prone to drought |

**AESR 19.1 :** The region is hot humid ESR with medium to deep loamy to clayey mixed Red and Black 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*** |
| Raigarh | Exclusively water erosion | Soil deficient in P, B & S | Saline GW | **-** |
| Thane | Exclusively water erosion & Water erosion under open forest | Soil deficient in B & S | GW Contaminated with Fe | **-** |

**AESR 19.2 :** The region is hot humid ESR with medium to deep loamy to clayey mixed Red and Black 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*** |
| Kolhapur | **-** | Soil deficient in Zn, Fe, B & S | GW Contaminated with NO3  & heavy metals | **-** |
| Ratnagiri | Exclusively water erosion | Soil deficient in P | GW Saline, Contaminated with F & Fe | Moderately prone to flood & cyclone |
| Sindhudurg | Exclusively water erosion & Acid soils under water erosion | Soil deficient in Zn, B & S | GW Contaminated with F | - |

**AESR 19.3 :** The region is hot humid to per humid transitional ESR with deep, clayey to loamy acidic coastal alluvium-derived soils, low AWC and LGP 240-270 days in a year.

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Mumbai City | Exclusively water erosion | **-** | - | **-** |
| Raigarh | Exclusively water erosion | Soil deficient in P, B & S | Saline GW | Moderately prone to drought |
| Ratnagiri | Exclusively water erosion & Acid soils under water erosion | Soil deficient in P | GW Saline, Contaminated with F & Fe | Moderately prone to flood & cyclone |
| Sindhudurg | Exclusively water erosion & Acid soils under water erosion | Soil deficient in Zn, B & S | GW Contaminated with F | **-** |
| Suburban Mumbai | Exclusively water erosion | **-** | - | **-** |
| Thane | Exclusively water erosion & Water erosion under open forest | Soil deficient in B & S | GW Saline, Contaminated with Fe | **-** |