**Telangana**

Telangana comprises of two Agro Ecological Regions (AER) 6 & 7.

**Agro-Eco Region 6:** AER 6 in Telangana comprises of Adilabad and Nizamabad districts of Deccan Plateau under Agro Ecological Sub Region (AESR) 6.2.

**Agro-Eco Region 7:** AER 7 in Telangana comprises of Hyderabad, Nalgonda, Mahabubnagar, Karimnagar, Ranga Reddy, Warangal, Medak and Khammam districts of Deccan (Telangana) Plateau and Eastern Ghats under Agro Ecological Sub Regions (AESR) 7.2.

**Major NRM issues :**

**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*** |
| Adilabad | Exclusively water erosion | Low in OC, Soil Deficient in N, P, Zn, Fe, Cu, Mn, B, & S | Saline GW Contaminated with F, NO3 & Fe | **-** |
| Nizamabad | Exclusively water erosion | Low in OC & Soil Deficient in N | Saline GW Contaminated with F, NO3 & Fe | **-** |

**AESR 7.2:** The region is hot moist semi-arid ESR with deep loamy and clayey mixed Red and Black soils, medium to very 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*** |
| Hyderabad | Exclusively water erosion | Low in OC, Soil Deficient in N,P, K, Zn, Fe, Cu, Mn, B, & S | GW Contaminated with F, NO3 & Fe | Moderate vulnerability to Flood, Drought & Cyclone |
| Karimnagar | Exclusively water erosion | Low in OC & Soil Deficient in N, Zn, Fe, Cu, Mn, B, & S | Saline GW Contaminated with F, NO3 & Fe | **-** |
| Khammam | Exclusively water erosion | Low in OC & Soil Deficient in N, Zn & Fe. | Saline GW Contaminated with F & NO3 | Highly prone to Flood & Drought |
| Mahabubnagar | Exclusively water erosion | Low in OC & Soil Deficient in N | Saline GW Contaminated with F, NO3 & Fe | Highly prone to Flood & Drought |
| Medak | Exclusively water erosion | Soil Deficient in N & Zn | Saline GW Contaminated with F, NO3 & Fe | Moderately prone to Flood & Drought |
| Nalgonda | Exclusively water erosion | Low in OC & Soil Deficient in N & Fe | Saline GW Contaminated with F, NO3, As Fe & heavy metals | Moderately prone to Flood & Drought |
| Ranga Reddy | Exclusively water erosion | Low in OC & Soil Deficient in N | GW Contaminated with F, NO3 Fe & heavy metals | **-** |
| Warangal | Exclusively water erosion | Low in OC & Soil Deficient in N & Zn | Saline GW Contaminated with F & NO3 | Moderately prone to Flood & Drought |

**Organization and Establishments for Technology Backstopping**

***ICAR Research Institutes:***

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| Central Research Institute for Dryland Agriculture, Hyderabad | <http://www.icar-crida.res.in/> |
| KVK Portal | <https://kvk.icar.gov.in/> |

***SAUs/CAUs:***

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| Sri Konda Laxman Telangana State Horticultural University, HQ at Rajendra Nagar  Campus, Hyderabad | <http://skltshu.ac.in/> |
| Professor Jayashankar Agriculture University, Rajendranagar, Hyderabad | <https://pjtsau.edu.in/research-technologies-developed.html> |

***List of KVKs:*** <https://icar.org.in/content/telangana-0>

***List of Soil testing Laboratories****:* <https://farmer.gov.in/STLDetails.aspx?State=36>