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**Andaman & Nicaobar Islands**

Andaman & Nicaobar Islands comes under Agro Ecological Sub Region (AESR 20.1) of Agro Ecological Region 20 (AER 20) of coastal ecosystem covering 0.8 mha in three districts namely Nicobar, North & Middle Andaman and South Andaman. The region is hot perhumid ESR with shallow to medium deep, loamy to clayey Red and Yellow and Red Loamy soils, low to medium AWC and LGP 300 days. The mean annual rainfall and temperature ranges from 1400-1600 mm and 26-27°C respectively.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districs** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
|  |  |  |  |  |
|  |  |  |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districs** | **Major technological Interventions** |
|  |  |
|  |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districs** | **Relevant Developmental Schemes** |
|  |  |
|  |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districs** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Bankura |  |  |
| Puruliya |  |  |

**Important Links :**

|  |  |
| --- | --- |
| **Districs** |  |
| Bankura | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| Puruliya | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |

**Andhra Pradesh**

Andhra Pradesh comprises of four Agro Ecological Regions (AER) namely 3, 7, 8,12 and 18.

**Agro-Eco Region 3 :**

AER 3 in Andhra Pradesh comprises of Ananthpur district of Deccan Plateau under Agro Ecological Sub Region (AESR) 3.

**AESR 3 :** The region is hot arid ESR with deep loamy and clayey mixed Red and Black soils, low to medium AWC and LGP 60-90 days (K6Et2).

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districs** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Bankura | **-** |  | Rainfed |  |
| Puruliya | Exclusively water erosion |  | Rainfed |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districs** | **Major technological Interventions** |
| Bankura |  |
| Puruliya |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districs** | **Relevant Developmental Schemes** |
| Bankura |  |
| Puruliya |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districs** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Bankura |  |  |
| Puruliya |  |  |

**Important Links :**

|  |  |
| --- | --- |
| **Districs** |  |
| Bankura | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| Puruliya | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |

***Relevant Research Institutes/SAUs/KVKs/STL for technical backstopping:***

|  |  |
| --- | --- |
| **Districs** |  |
| Bankura |  |
| Puruliya |  |

**Arunachal Pradesh**

Arunachal Pradesh comprises of two Agro Ecological Regions (AER) namely 16 and 17.

**Agro-Eco Region 16 :**

AER 16 in Arunachal Pradesh comprises of East Kameng, East Siang, Anjaw, Kurung Kumey, Tawang, Upper Subansiri, West Kameng, West Siang, Upper Siang, Dibang Valley, Papum-pare, Lower Subansiri, Lohit and Lower Dibang Valley districts of Eastern Himalayas under Agro Ecological Sub Regions (AESR) 16.3.

**AESR 16.3 :** The region warm to hot perhumid ESR with deep, loamy to clayey Red Loamy soils, low to medium AWC and LGP 300 days in a year.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districs** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| East Kameng |  |  |  |  |
| East Siang |  |  |  |  |
| Anjaw |  |  |  |  |
| Kurung Kumey |  |  |  |  |
| Tawang |  |  |  |  |
| Upper Subansiri |  |  |  |  |
| West Kameng |  |  |  |  |
| West Siang |  |  |  |  |
| Upper Siang |  |  |  |  |
| Dibang Valley |  |  |  |  |
| Papum-pare |  |  |  |  |
| Lower Subansiri |  |  |  |  |
| Lohit |  |  |  |  |
| Lower Dibang Valley |  |  |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districs** | **Major technological Interventions** |
| East Kameng |  |
| East Siang |  |
| Anjaw |  |
| Kurung Kumey |  |
| Tawang |  |
| Upper Subansiri |  |
| West Kameng |  |
| West Siang |  |
| Upper Siang |  |
| Dibang Valley |  |
| Papum-pare |  |
| Lower Subansiri |  |
| Lohit |  |
| Lower Dibang Valley |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districs** | **Relevant Developmental Schemes** |
| East Kameng |  |
| East Siang |  |
| Anjaw |  |
| Kurung Kumey |  |
| Tawang |  |
| Upper Subansiri |  |
| West Kameng |  |
| West Siang |  |
| Upper Siang |  |
| Dibang Valley |  |
| Papum-pare |  |
| Lower Subansiri |  |
| Lohit |  |
| Lower Dibang Valley |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districs** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| East Kameng |  |  |
| East Siang |  |  |
| Anjaw |  |  |
| Kurung Kumey |  |  |
| Tawang |  |  |
| Upper Subansiri |  |  |
| West Kameng |  |  |
| West Siang |  |  |
| Upper Siang |  |  |
| Dibang Valley |  |  |
| Papum-pare |  |  |
| Lower Subansiri |  |  |
| Lohit |  |  |
| Lower Dibang Valley |  |  |

**Important Links :**

|  |  |
| --- | --- |
| **Districs** |  |
| East Kameng | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| East Siang | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| Anjaw | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| Kurung Kumey | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| Tawang | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| Upper Subansiri | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| West Kameng | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| West Siang | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| Upper Siang | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| Dibang Valley | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| Papum-pare | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| Lower Subansiri | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| Lohit | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| Lower Dibang Valley | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |

***Relevant Research Institutes/SAUs/KVKs/STL for technical backstopping:***

|  |  |
| --- | --- |
| **Districs** |  |
|  |  |
|  |  |

**Agro-Eco Region 17 :**

AER 17 in Arunachal Pradesh comprises of Changlang and Tirap districts of North-eastern Hills (Purvachal) basin under Agro Ecological Sub Regions (AESR) 17.1.

**AESR 17.1 :** The region warm to hot moist humid to perhumid ESR with medium to deep loamy to clayey Red and Lateritic soils, medium AWC and LGP 270-300+ days in a year.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districs** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Changlang |  |  |  |  |
| Tirap |  |  |  |  |

**Arunachal Pradesh**

Arunachal Pradesh comprises of two Agro Ecological Regions (AER) namely 16 and 17.

**Agro-Eco Region 16 :**

AER 16 in Arunachal Pradesh comprises of East Kameng, East Siang, Anjaw, Kurung Kumey, Tawang, Upper Subansiri, West Kameng, West Siang, Upper Siang, Dibang Valley, Papum-pare, Lower Subansiri, Lohit and Lower Dibang Valley districts of Eastern Himalayas under Agro Ecological Sub Regions (AESR) 16.3.

**AESR 16.3 :** The region warm to hot perhumid ESR with deep, loamy to clayey Red Loamy soils, low to medium AWC and LGP 300 days in a year.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districs** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| East Kameng |  |  |  |  |
| East Siang |  |  |  |  |
| Anjaw |  |  |  |  |
| Kurung Kumey |  |  |  |  |
| Tawang |  |  |  |  |
| Upper Subansiri |  |  |  |  |
| West Kameng |  |  |  |  |
| West Siang |  |  |  |  |
| Upper Siang |  |  |  |  |
| Dibang Valley |  |  |  |  |
| Papum-pare |  |  |  |  |
| Lower Subansiri |  |  |  |  |
| Lohit |  |  |  |  |
| Lower Dibang Valley |  |  |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districs** | **Major technological Interventions** |
| East Kameng |  |
| East Siang |  |
| Anjaw |  |
| Kurung Kumey |  |
| Tawang |  |
| Upper Subansiri |  |
| West Kameng |  |
| West Siang |  |
| Upper Siang |  |
| Dibang Valley |  |
| Papum-pare |  |
| Lower Subansiri |  |
| Lohit |  |
| Lower Dibang Valley |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districs** | **Relevant Developmental Schemes** |
| East Kameng |  |
| East Siang |  |
| Anjaw |  |
| Kurung Kumey |  |
| Tawang |  |
| Upper Subansiri |  |
| West Kameng |  |
| West Siang |  |
| Upper Siang |  |
| Dibang Valley |  |
| Papum-pare |  |
| Lower Subansiri |  |
| Lohit |  |
| Lower Dibang Valley |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districs** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| East Kameng |  |  |
| East Siang |  |  |
| Anjaw |  |  |
| Kurung Kumey |  |  |
| Tawang |  |  |
| Upper Subansiri |  |  |
| West Kameng |  |  |
| West Siang |  |  |
| Upper Siang |  |  |
| Dibang Valley |  |  |
| Papum-pare |  |  |
| Lower Subansiri |  |  |
| Lohit |  |  |
| Lower Dibang Valley |  |  |

**Important Links :**

|  |  |
| --- | --- |
| **Districs** |  |
| East Kameng | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| East Siang | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| Anjaw | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| Kurung Kumey | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| Tawang | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| Upper Subansiri | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| West Kameng | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| West Siang | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| Upper Siang | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| Dibang Valley | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| Papum-pare | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| Lower Subansiri | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| Lohit | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| Lower Dibang Valley | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |

***Relevant Research Institutes/SAUs/KVKs/STL for technical backstopping:***

|  |  |
| --- | --- |
| **Districs** |  |
|  |  |
|  |  |

**West Bengal**

West Bengal comprises of four Agro Ecological Regions (AER) namely 12, 15, 16 and 18.

**Agro-Eco Region 12 :**

AER 12 in West Bengal comprises of Bankura and Puruliya districts of Chhotanagpur Plateau under Agro Ecological Sub Regions (AESR) 12.3.

**AESR 12.3 :** The region is hot, dry subhumid climate ESR with moderately deep to deep loamy to clayey Red and Lateritic soils, medium AWC and LGP of 150-180 days in a year. The area receives an annual rainfall of 1000-1600 mm which covers about 80 per cent of the PET leaving deficit of 500 to 700 mm of water per year. The water balance shows a prolonged dry period from December to May (more than 90 days in a year). As such the area, in general, qualifies for **Typic Ustic** soil moisture regime. The mean annual soil temperature of more than 22oC qualifies the area for **hyperthermic** soil temperature regime.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districs** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Bankura | **-** |  | Rainfed |  |
| Puruliya | Exclusively water erosion |  | Rainfed |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districs** | **Major technological Interventions** |
| Bankura |  |
| Puruliya |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districs** | **Relevant Developmental Schemes** |
| Bankura |  |
| Puruliya |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districs** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Bankura |  |  |
| Puruliya |  |  |

**Important Links :**

|  |  |
| --- | --- |
| **Districs** |  |
| Bankura | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |
| Puruliya | *District Soil nutrient status:*  *District Contingency Plan:*  *District Irrigation Plan:*  *District ground water status:*  *District Vulnerability status:* |

***Relevant Research Institutes/SAUs/KVKs/STL for technical backstopping:***

|  |  |
| --- | --- |
| **Districs** |  |
| Bankura |  |
| Puruliya |  |