**Table 4.** Optimum number of hidden layer neurons and activation functions of eight MLPs used against eight input combinations for three study locations.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Locations | Input combinations | MLPs | Number of nodes in input layer | Number of nodes in hidden layer | Activation functions |
| Berubari | *C*1  *C*2  *C*3  *C*4  *C*5  *C*6  *C*7  *C*8 | MLP1  MLP2  MLP3  MLP4  MLP5  MLP6  MLP7  MLP8 | 8  27  27  27  81  81  81  243 | 5  7  8  12  11  6  15  9 | Sigmoid  Tangent hyperbolic  Tangent hyperbolic  Tangent hyperbolic  Tangent hyperbolic  Tangent hyperbolic  Tangent hyperbolic  Tangent hyperbolic |
| Jayanti | *C*1  *C*2  *C*3  *C*4  *C*5  *C*6  *C*7  *C*8 | MLP1  MLP2  MLP3  MLP4  MLP5  MLP6  MLP7  MLP8 | 8  27  27  27  81  81  81  243 | 10  11  10  6  7  7  6  6 | Tangent hyperbolic  Tangent hyperbolic  Tangent hyperbolic  Sigmoid  Tangent hyperbolic  Tangent hyperbolic  Tangent hyperbolic  Tangent hyperbolic |
| Tamaguri | *C*1  *C*2  *C*3  *C*4  *C*5  *C*6  *C*7  *C*8 | MLP1  MLP2  MLP3  MLP4  MLP5  MLP6  MLP7  MLP8 | 8  27  27  27  81  81  81  243 | 14  10  7  14  8  10  6  8 | Tangent hyperbolic  Tangent hyperbolic  Tangent hyperbolic  Sigmoid  Tangent hyperbolic  Sigmoid  Tangent hyperbolic  Tangent hyperbolic |