**Table 1: Physico-chemical parameters of dyeing industry effluent**

|  |  |
| --- | --- |
| **Parameters** | **Values** |
| pH | 7.3 |
| Electrical conductivity (mS/cm) | 2,900 |
| Total Solids (mg lˉ1) | 4301 |
| Total Dissolved Solids ” | 3745 |
| Chloride ” | 3158 |
| Sulphate ” | 0.322 |
| BOD ” | 24.01 |
| COD ” | 201 |

**Table 2: Biochemical compounds in Brinjal responding to stress in relation to various concentrations (25, 50, 75, and 100 %) of dyeing industry effluent**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Parameters** | **control** | **25%** | **50%** | **75%** | **100%** |
| Peroxidase activity (Km purpurogallin min-1 g-1 fresh leaf) | 11.2±0.1 | 16.4±0.03 | 18.5±0.03 | 22.2±0.01 | 26.1±0.05 |
| Catalase( mg/g fw)  | 2.5±0.01 | 3.6±0.01 | 5.3±0.01 | 6.1±0.04 | 8.5±0.08 |
| Phenol content (mg g -1 fresh leaf) | 1.2±0.02 | 1.4±0.04 | 1.7±0.04 | 2.2±0.02 | 2.5±0.1 |
| Thiol content (K mol g -1 fresh leaf) | 3.4±0.11 | 4.5±0.02 | 6.3±0.02 | 6.9±0.03 | 8.1±0.2 |
| Proline content (mg g -1 fresh leaf) | 0.8±0.03 | 1.5±0.05 | 1.9±0.04 | 2.8±0.02 | 3.1±0.06 |
| Ascorbic acid content (mg g-1 fresh leaf) | 0.21±0.05 | 0.32±0.01 | 0.42±0.02 | 0.54±0.1 | 0.67±0.01 |

**Table 3: Biochemical compounds in Brinjal responding to stress in relation to various concentrations (25, 50, 75, and 100 %) of dyeing industry effluent**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  **Parameters**  | **control**  | **25%** | **50%** | **75%** | **100%** |
| Deoxyribonucleic acid | 1.23 ±0.06 | 2.1±0.02 | 2.87 ±0.01 | 3.76 ±0.7 | 4.3 ±0.05 |
| Ribonucleic acid | 1.5 ±0.3 | 1.9±0.06 | 2.4 ±0.1 | 2.7 ±0.07 | 2.9 ±0.06 |