**SI- Table 1:** Details of Sampling sites from the study area

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| **Study Area** | **Specific Sites** | **Description** |
| Mangla Dam Lake, Mirpur Azad Kashmir | Sangot | Site is located in Water Body Lake; All types of samples were collected |
| Khaliqabad | Site is located in Water Body Lake; All types of samples were collected |
| Islamgarh | Site is located in Water Body Lake; All types of samples were collected |
| Chaksawari | Site is located in Water Body Lake; All types of samples were collected |
| Dadyal | Site is located in Water Body Lake; All types of samples were collected |
| Sukian | Site is located in Water Body Lake; All types of samples were collected |