

ANNEXURE II

TITLE: ASSESSMENT OF ICHTHYOFAUNAL BIODIVERSITY OF DIYUNG RIVER OF NORTH EASTERN HIMALAYAN REGION (DIMA HASAO) (HJRF002).

Objective wise detailed outcome and results:

Outcome for objective 1:

- 6 sampling sites have been selected to determine fish fauna diversity, habitat ecology of the River.

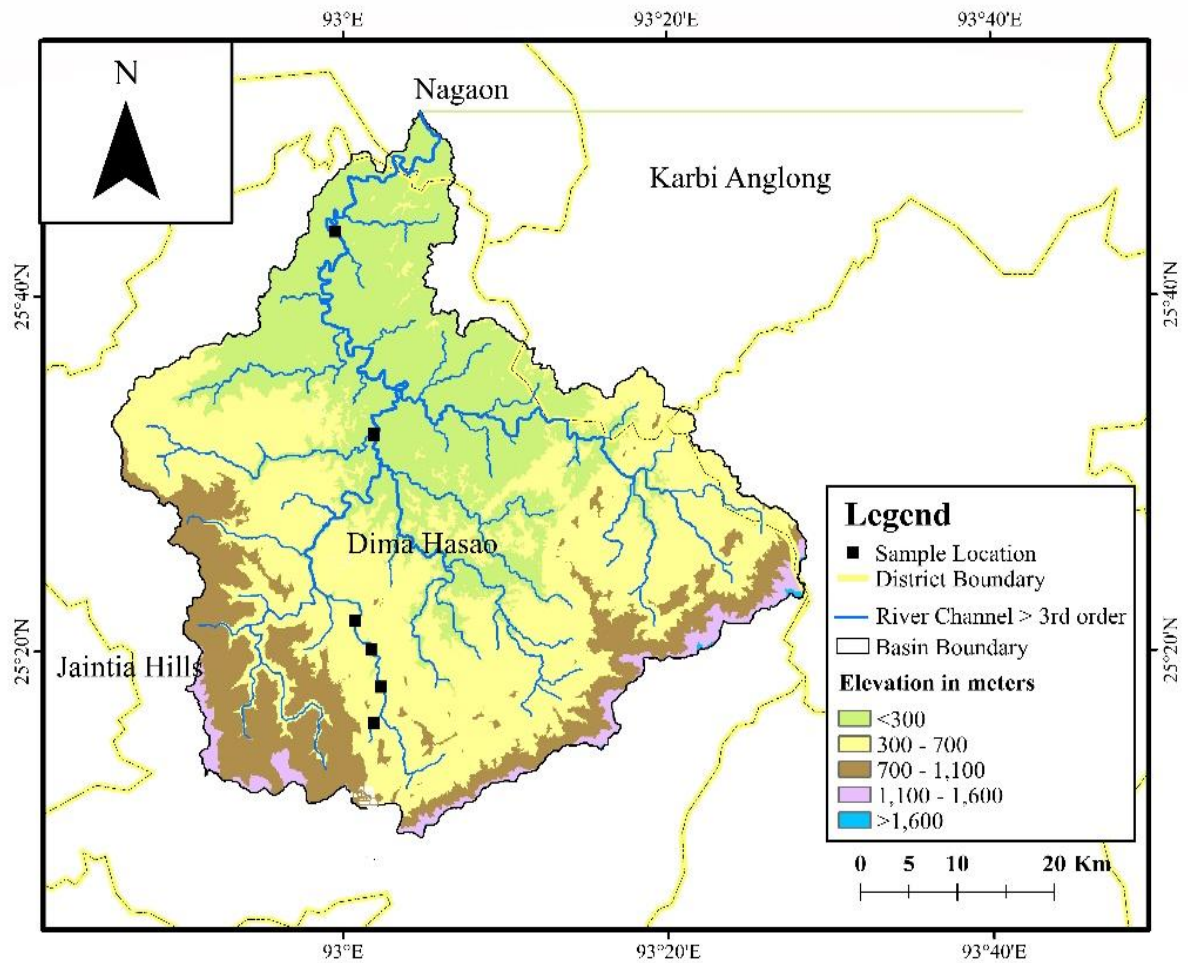







Fig. Map of the Study Area.

Details of Sampling Site:

Sl . No.	Project site	River	Elevation (Metre above MSL)	Site photograph
1	Dayang Railway Bridge Dima Hasao	Diyung River	387.27	
2	Diyang Hranghkol Dima Hasao	Diyung River	375.81	
3	Lower Haflong Bridge Dima Hasao	Diyung River	330.09	

4	Dihingi Bazar Point Dima Hasao	Diyun g River	148.13	
5	Thaiju wari Village Dima Hasao	Diyun g River	118.87	

Hydrobiological status of the river from July, 2019 to December, 2019:

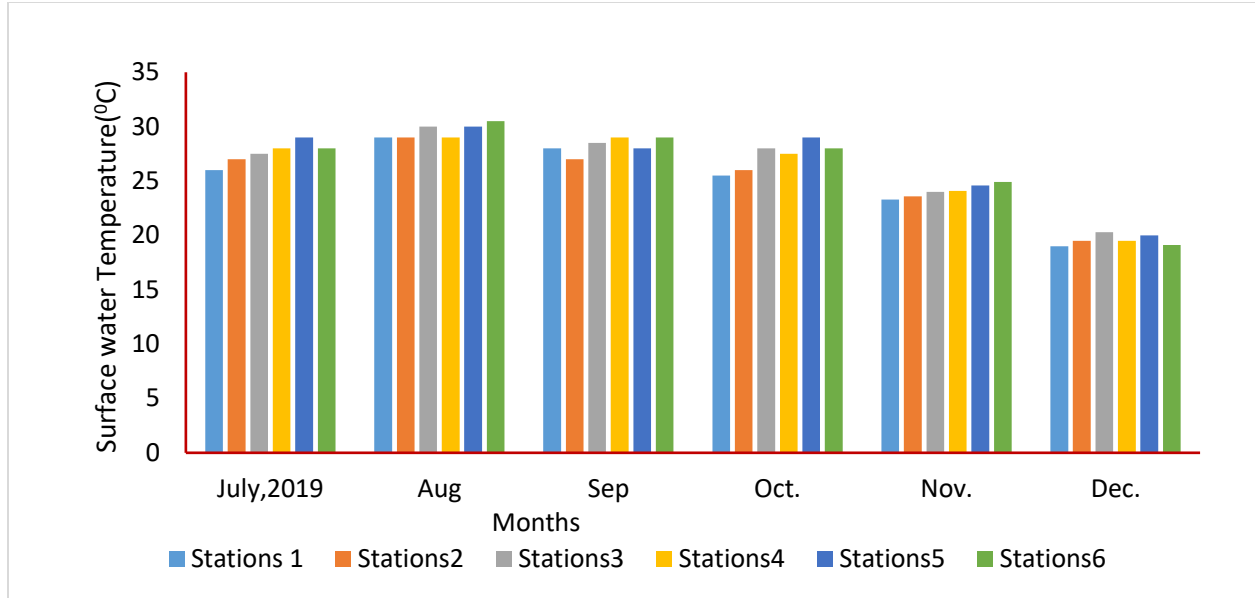


Fig: Monthly Variation of Surface Water Temperature (°C) of River Diyung from July to December, 2019.

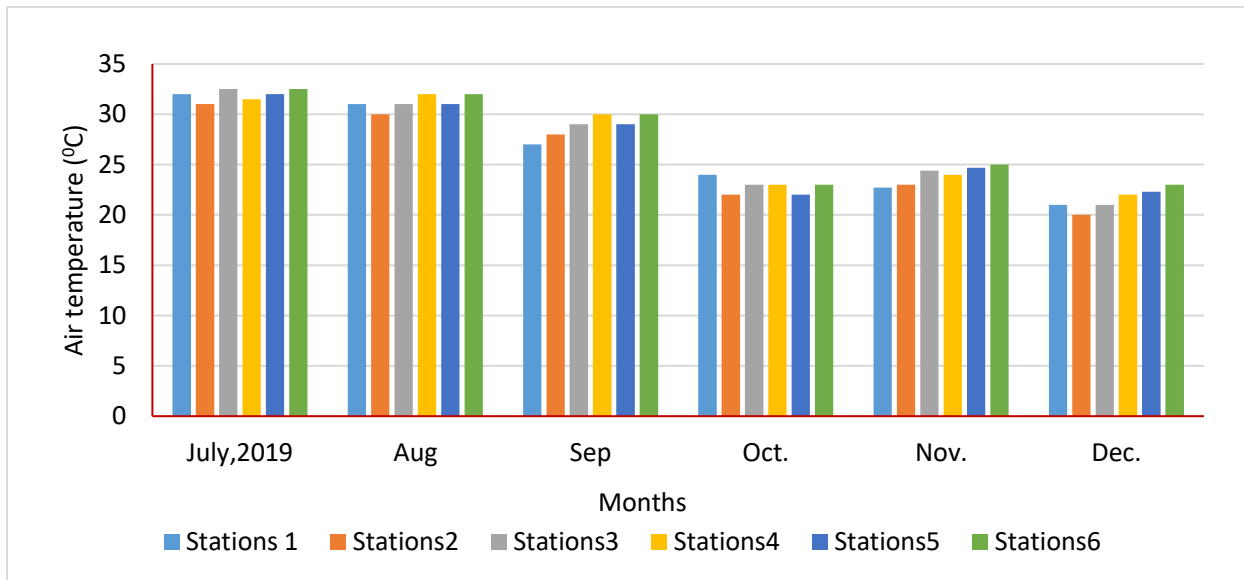


Fig: Monthly Variation of Air Temperature (°C) of River Diyung from July to December, 2019.

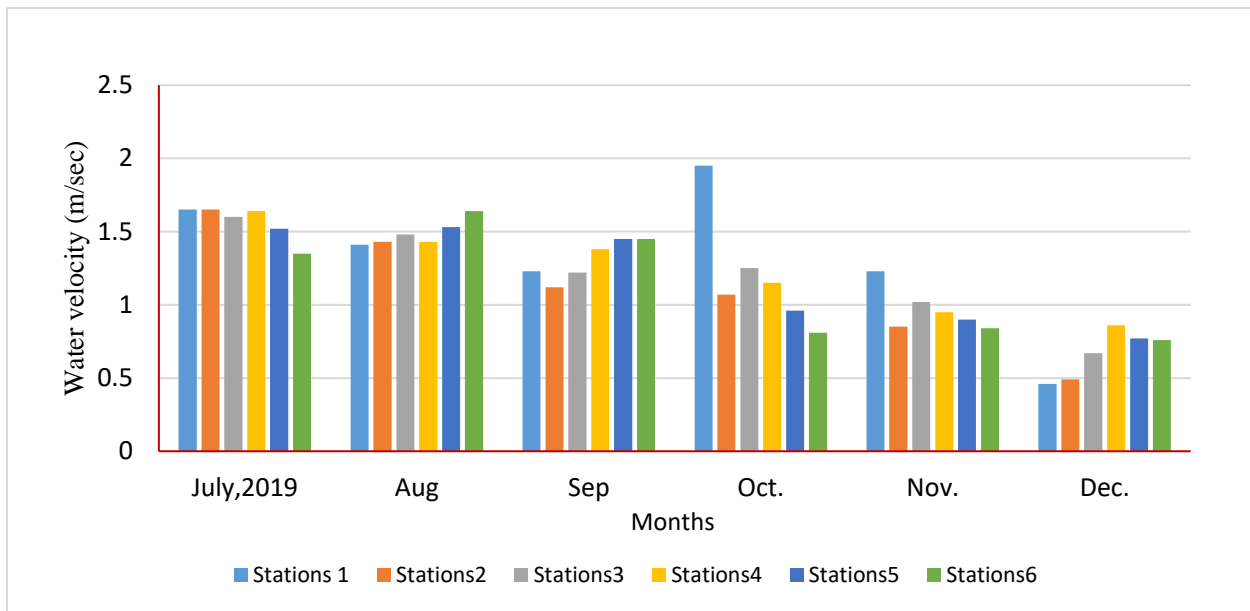


Fig: Monthly variation of Water Velocity (m/sec) of river Diyung from July to December, 2019.

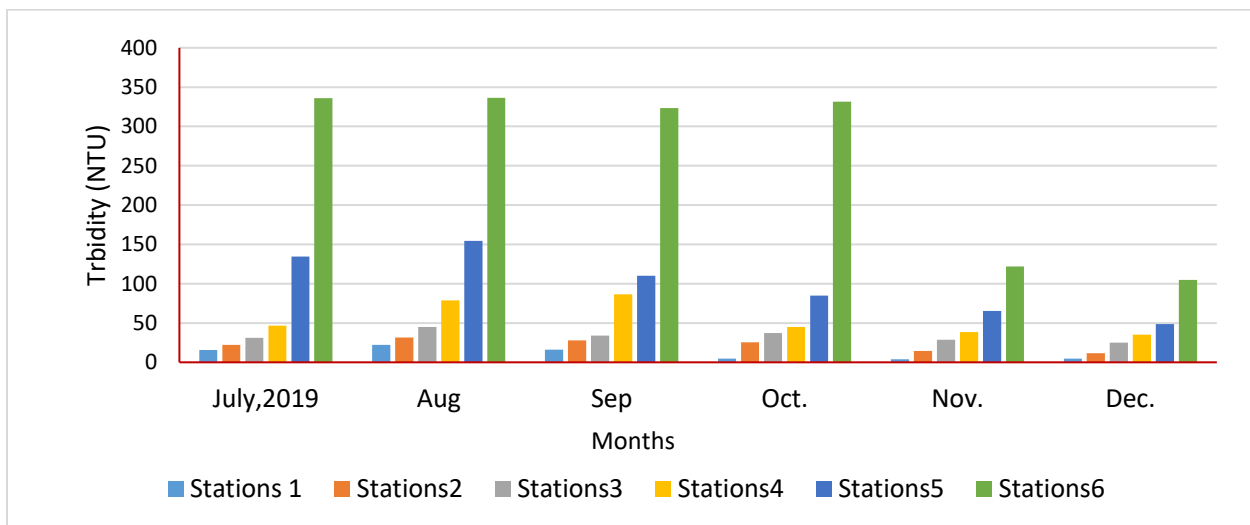


Fig: Monthly Variation of Turbidity (NTU) of River Diyung River from July to December, 2019.

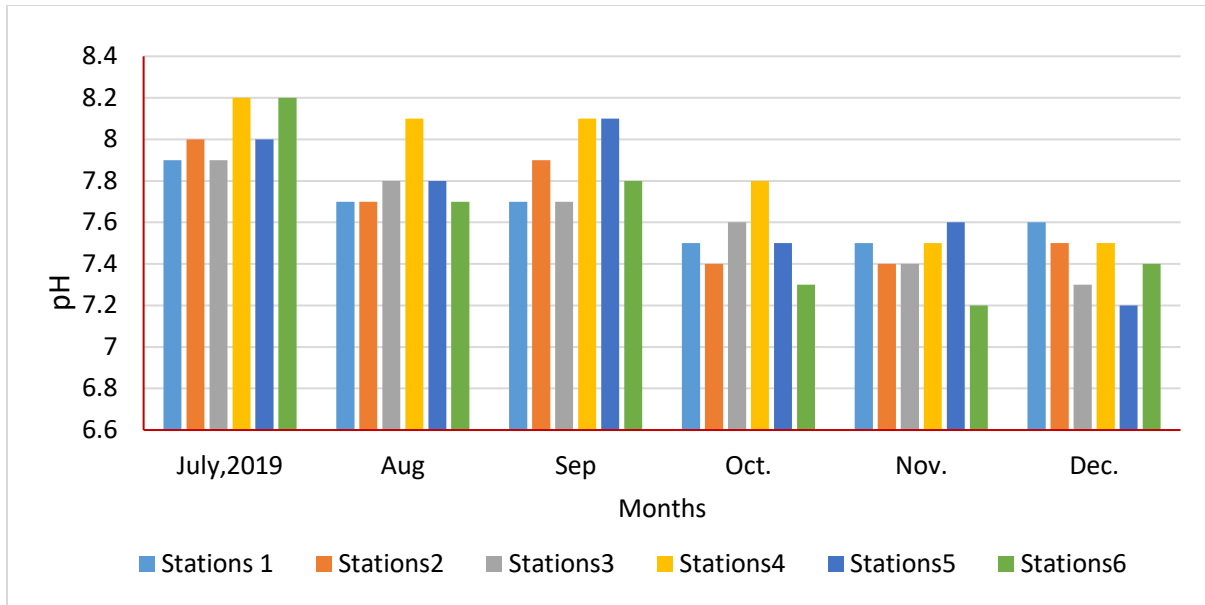


Fig: Monthly Variation of pH of River Diyung from July to December, 2019.

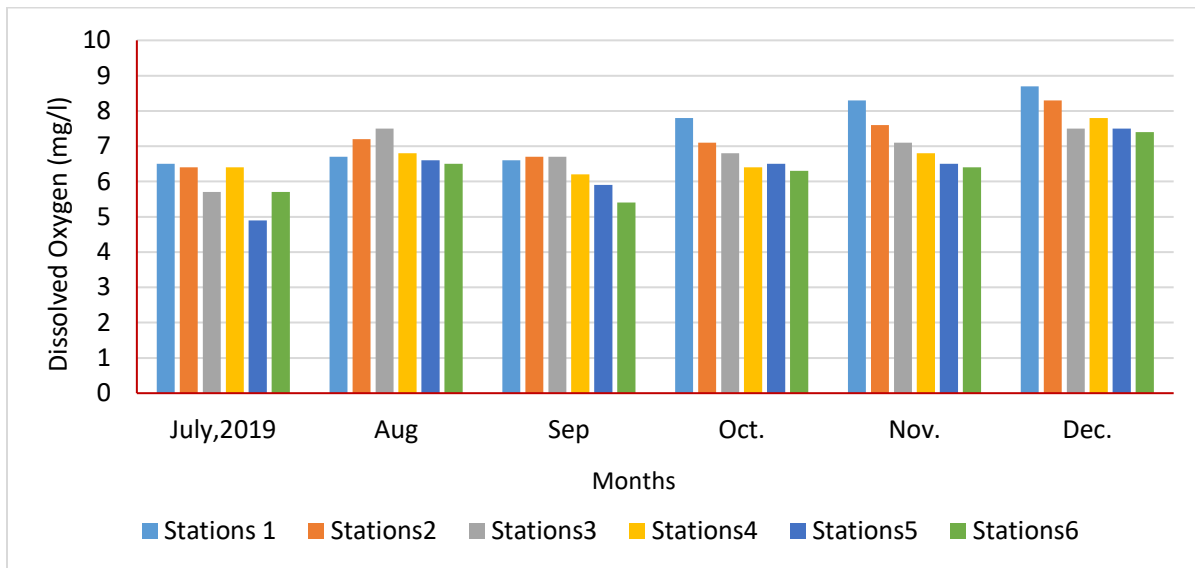


Fig: Monthly variation of Dissolved Oxygen (mg/l) of river Diyung from July to December, 2019.

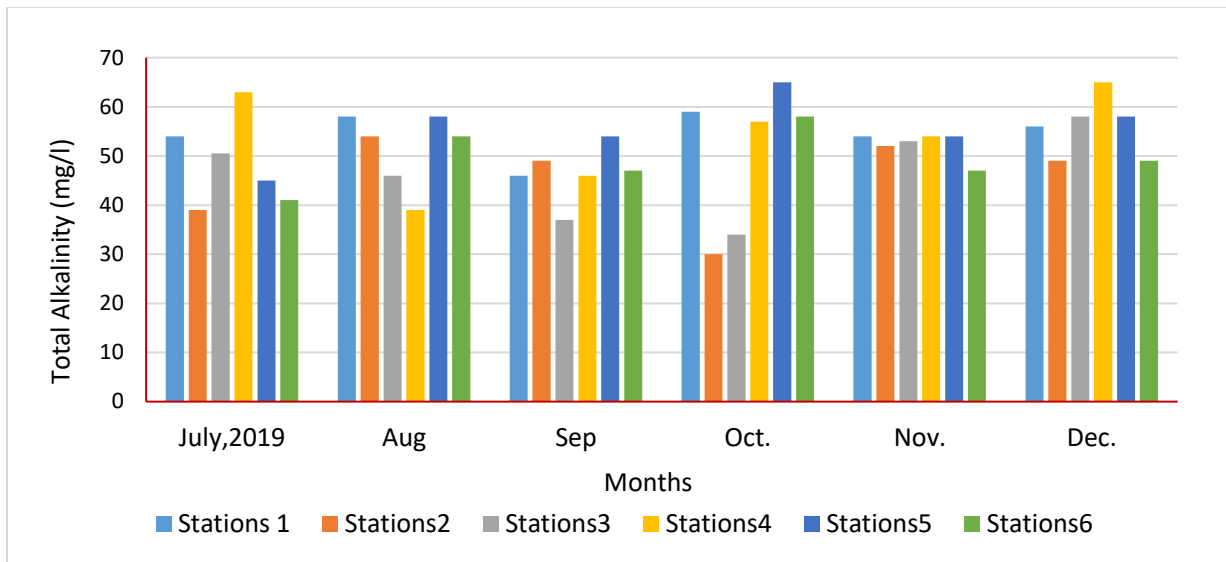


Fig: Monthly Variation of total Alkalinity (mg/l) of River Diyung from July to December, 2019.

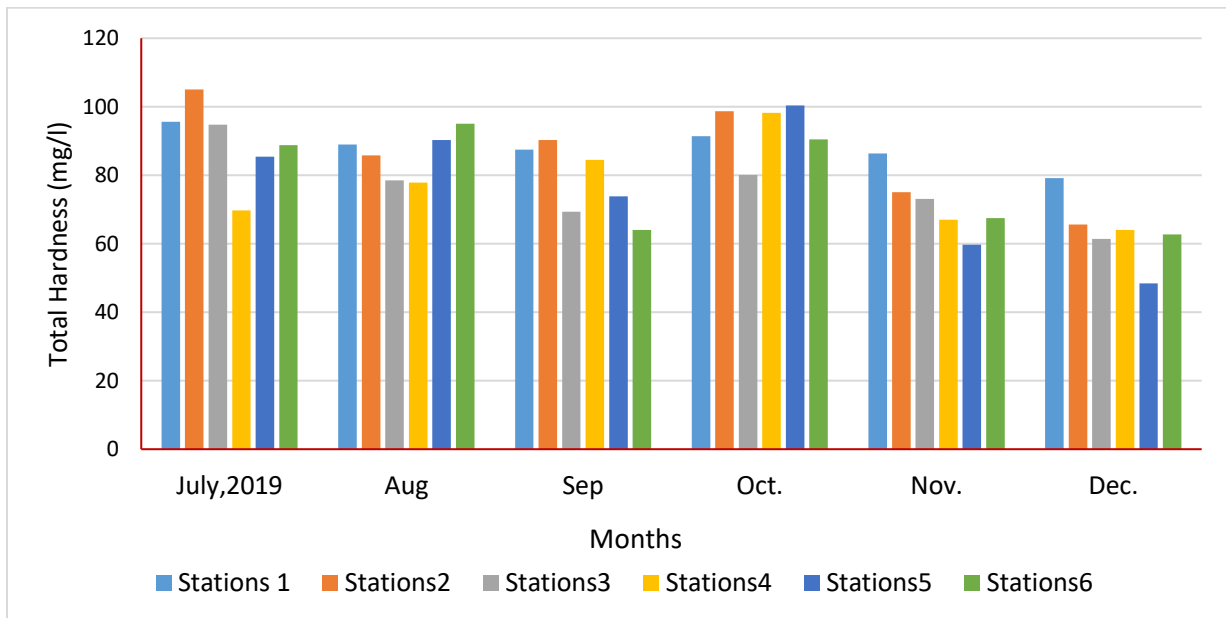


Fig: Monthly variation of Total Hardness (mg/l) of River Diyung from July to December, 2019.

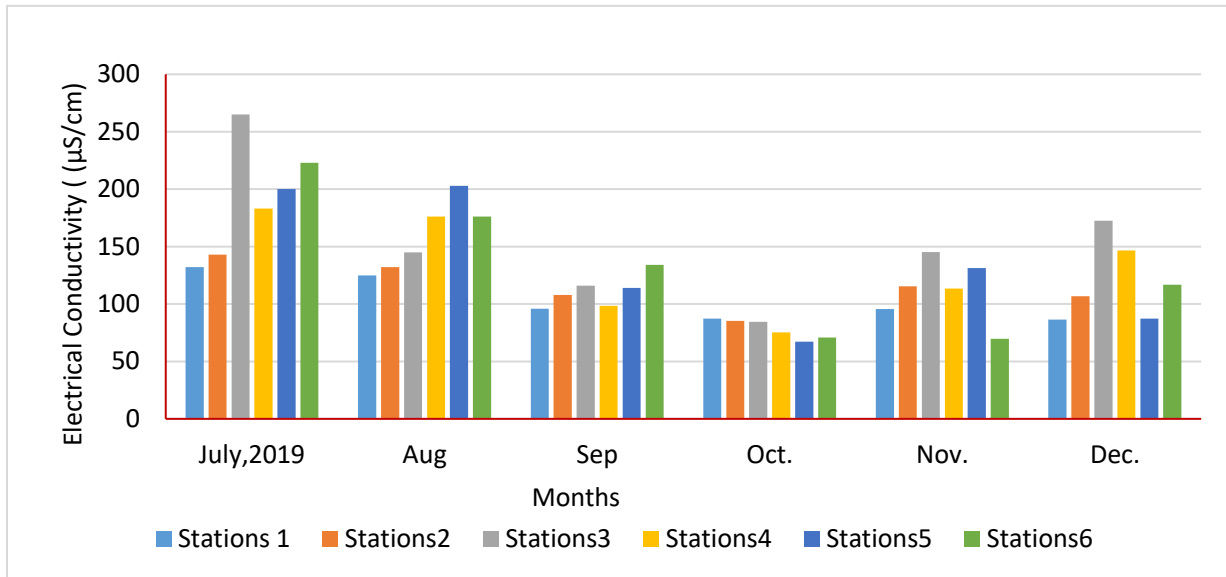


Fig: Monthly Variation of Electrical Conductivity ($\mu\text{S/cm}$) of River Diyung from July to December, 2019.

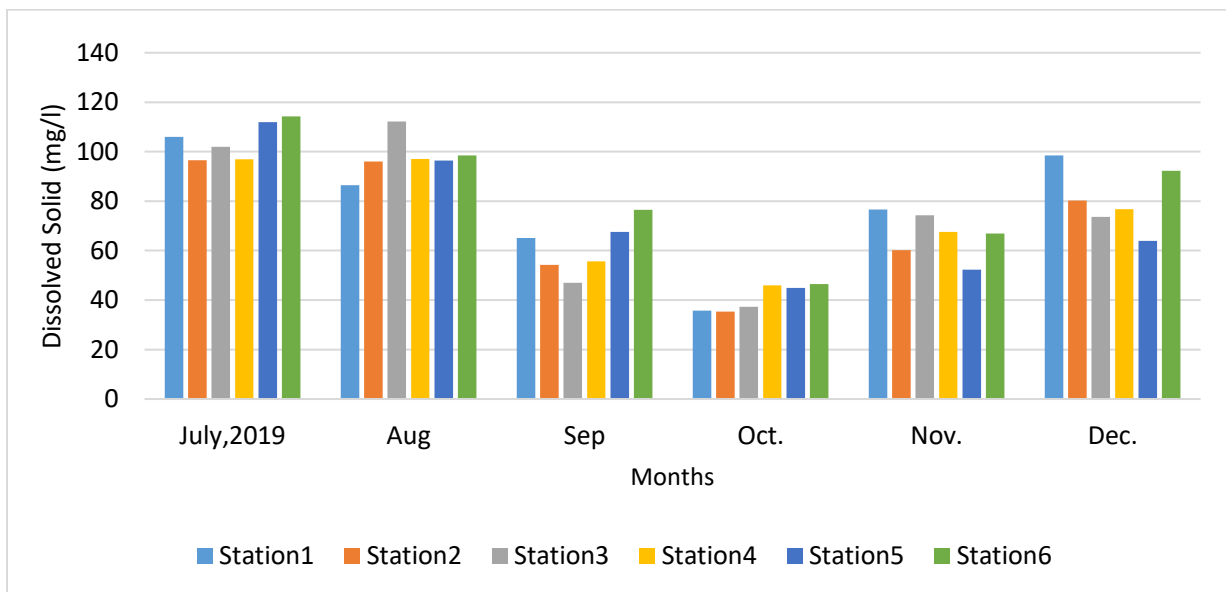


Fig: Monthly variation of Total Dissolved Solid (mg/l) of River Diyung from July to December, 2019.

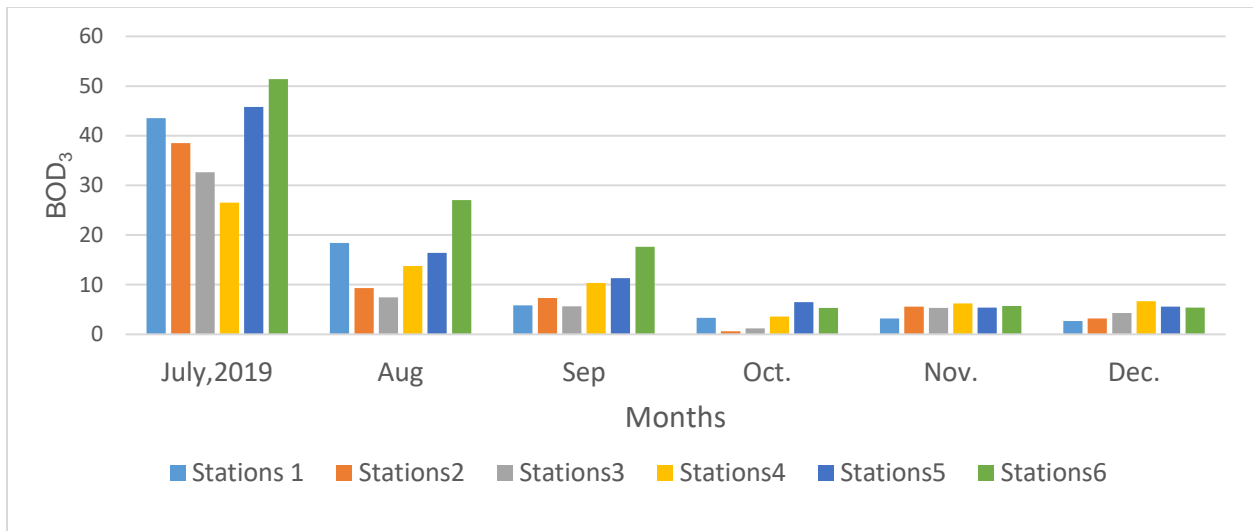


Fig: Monthly variation of BOD₃(mg/l) of River Diyung from July to December, 2019.

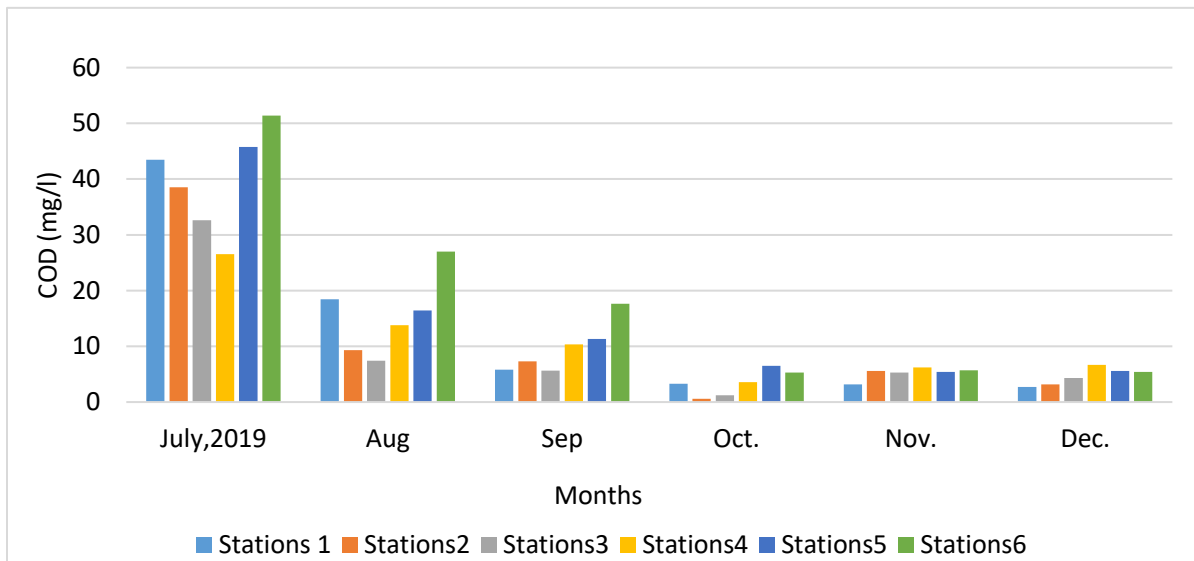


Fig: Monthly variation of COD (mg/l) of River Diyung from July to December, 2019.

Details of fish species selected from the river.

SL. No	Species	Family	NCBI Accession No.	IUCN Status
1	<i>Botia rostrata</i>	Botiidae		VULC
2	<i>Barilius barna</i>	Cyprinidae		LC
3	<i>Garra kempfi</i>			LC
4	<i>Garra annandalei</i>		MN830281	LC
5	<i>Garra nasuta</i>			LC
6	<i>Barilius ngawa</i>		MN830280	VU
7	<i>Garra lamta</i>			LC
8	<i>Barilius barilus</i>			VU
9	<i>Barilius bendelisis</i>		MN830278	LC
10	<i>Tor tor</i>			DD
11	<i>Devario aequipinnatus</i>			LC
12	<i>Tor putitora</i>		MN830279	EN
13	<i>Bangana dero</i>			Not Evaluated
14	<i>Puntius conchonicus</i>		MN830282	LC
15	<i>Psilorhynchus homaloptera</i>		Psilorhynchidae	MN830283
16	<i>Mastacembelus armatus</i>	Mastacembelidae		LC
17	<i>Schistura fasciata</i>	Nemacheilidae		Not Evaluated
18	<i>Glyptothorax sp.</i>	Sisoridae		
29	<i>Sperata aor</i>	Bagridae		LC
20	<i>Badis assamensis</i>	Badidae		LC
21	<i>Badis sp.</i>			LC

Some Fish specimen collected.



Botia rostrata



Badis assamensis



Barilius barna



Garra kempfi



Garra annandalei



Garra nasuta



Sperata aor



Barilius bendelisis



Tor tor



Garra lamta



Schistura fasciata



Tor putitora



Psilorhynchus homaloptera



Devario aequipinnatus



Barilius barilius



Mastacembelus armatus