4. Results

4.1. Body and gut-weight of the species

In this experiment, 29 out of 40 individuals (73%) contained on an average (1.15 ± 1.12) microplastics per individual. *Ompok bimaculatus* ranged in total length from 36.8 to 18.9 cm, standard length 28.5 to 15.9 cm, body weight between 300.15 to 34.12 g and GIT weight between 6.85 to 0.99 g.

Table 4.1. Body and gut-weight of the *Ompok bimaculatus* (Sampling station based)

Species	Sampling	Total body	Mean body	Total Gut	Mean Gut
Name	Station	weight (g)	weight ± SD	weight (g)	weight ± SD
	St-1	1295.07	86.33 ±28.95	48.86	3.25 ± 1.34
Ompok bimaculatus	St-2	864.97	57.66 ± 20.95	22.42	1.49 ± 0.42
	St-3	1033.85	103.38 ± 51.57	24.89	2.48 ± 1.09

4.2. Concentration of Microplastic of the species (Station based)

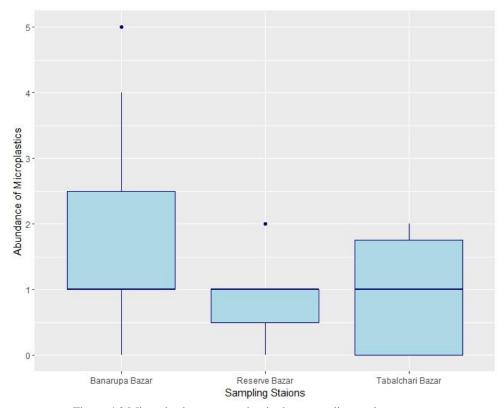


Figure 4.2 Microplastic concentration in three sampling station

Table 4.2: Distribution abundance of Microplastics among stations

Species Name	Sampling Station	Total number of individuals	Total number of microplastics	Percentage (%)
	St-1	15	24	47.48
Ompok bimaculatus	St-2	15	13	25.81
	St-3	10	9	26.70
Total		40	46	100

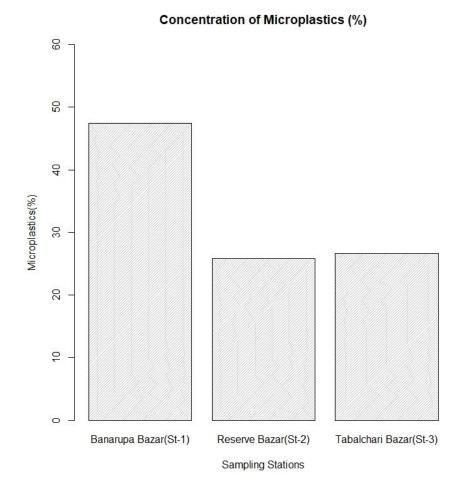


Figure 4.3 Concentration of microplastic of the species (Station based) (%)

4.3 Correlation between body length, microplastic abundance, and gut-weight

Figure 4.1 and table 4.4 shows the results of the correlation and t-test. Traditionally, p < 0.05 is referred to as statistically significant, and p < 0.001 is statistically highly significant. The result demonstrates a negative correlation between length and plastic, positive correlation between gut-weight and plastic and a highly significant correlation between length & gut-weight.

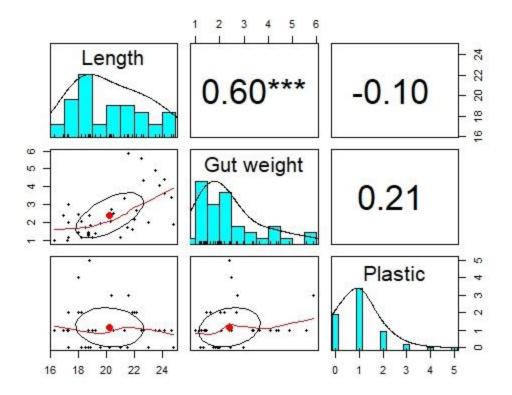


Figure 4.3: Correlation between microplastic abundance, body length and gut-weight.

Table 4.4 Results of the sample t-test

Ompok bimaculatus					
Length Gut-weight Plastic					
Length	NA	0.0001	0.551		
Gut-weight	0.0001	NA	0.1941		
Plastic	0.551	0.1941	NA		

4.5. Types of microplastics

Table 4.7. Types of microplastics

Species Name	Sampling Station	Types of Microplastics (%)			
		Fiber	Fragment	Thread-line	Total
Ompok bimaculatus	St-1+St- 2+St-3	40	2	4	46
Percentage (%)		86.96	4.34	8.70	100

Types of Microplastics

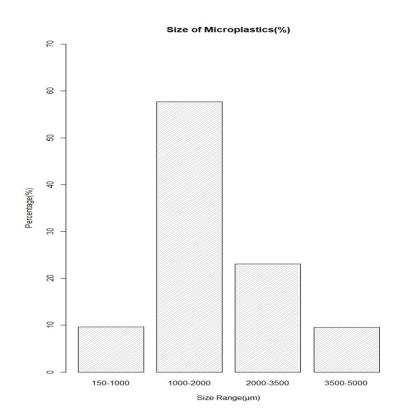


Fig: Types of microplastics (%)

4.6. Sizes of microplastics

Table 4.7. Sizes of microplastics

Species Name	Sampling Station		T . 1			
		150-1000 (μm)	1000-2000 (µm)	2000-3500 (µm)	3500-5000 (µm)	Total
Ompok bimaculatus	St-1+St- 2+St-3	10	18	11	7	46
Percentage (%)		21.73	39.13	23.91	15.21	



4.7 Colors of microplastics

Table 4.8 Colors of microplastics

Species Name	Sampling Station		Total			
		Transparent	Blue	Red	Black	
Ompok bimaculatus	St-1+St- 2+St-3	5	9	25	7	46
Percentage (%)		10.87	19.57	54.34	15.21	

Colors of Microplastics(%)

