

## Microplastic pollution in edible marine fish from the northwestern Bay of Bengal, Bangladesh: A comprehensive assessment of occurrence, characteristics and associated ecological risks

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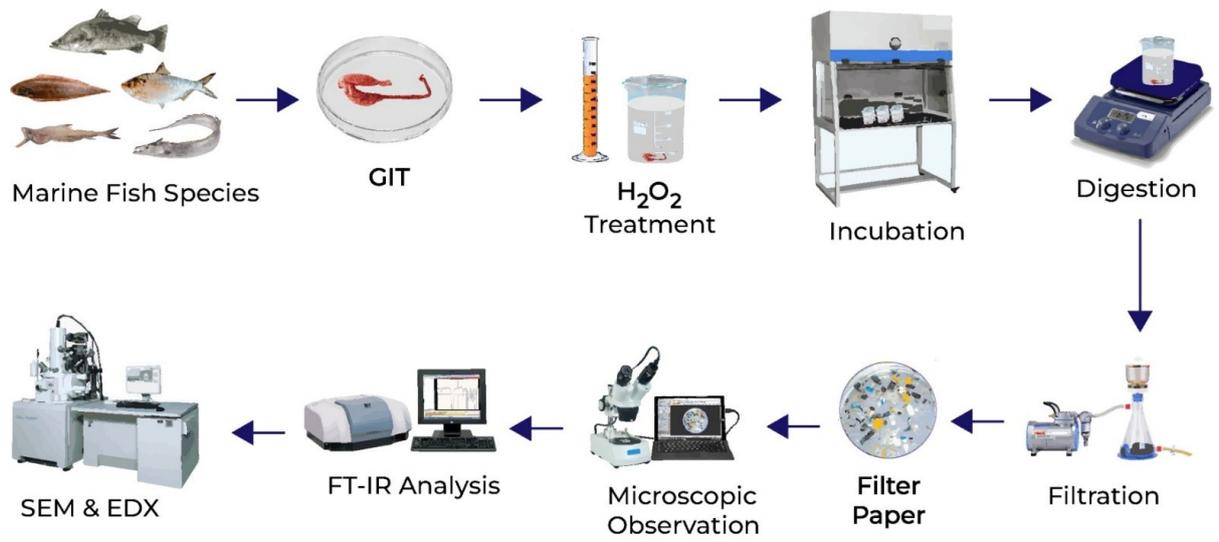
Article link: <https://doi.org/10.17017/j.fish.1208>

### Citation:

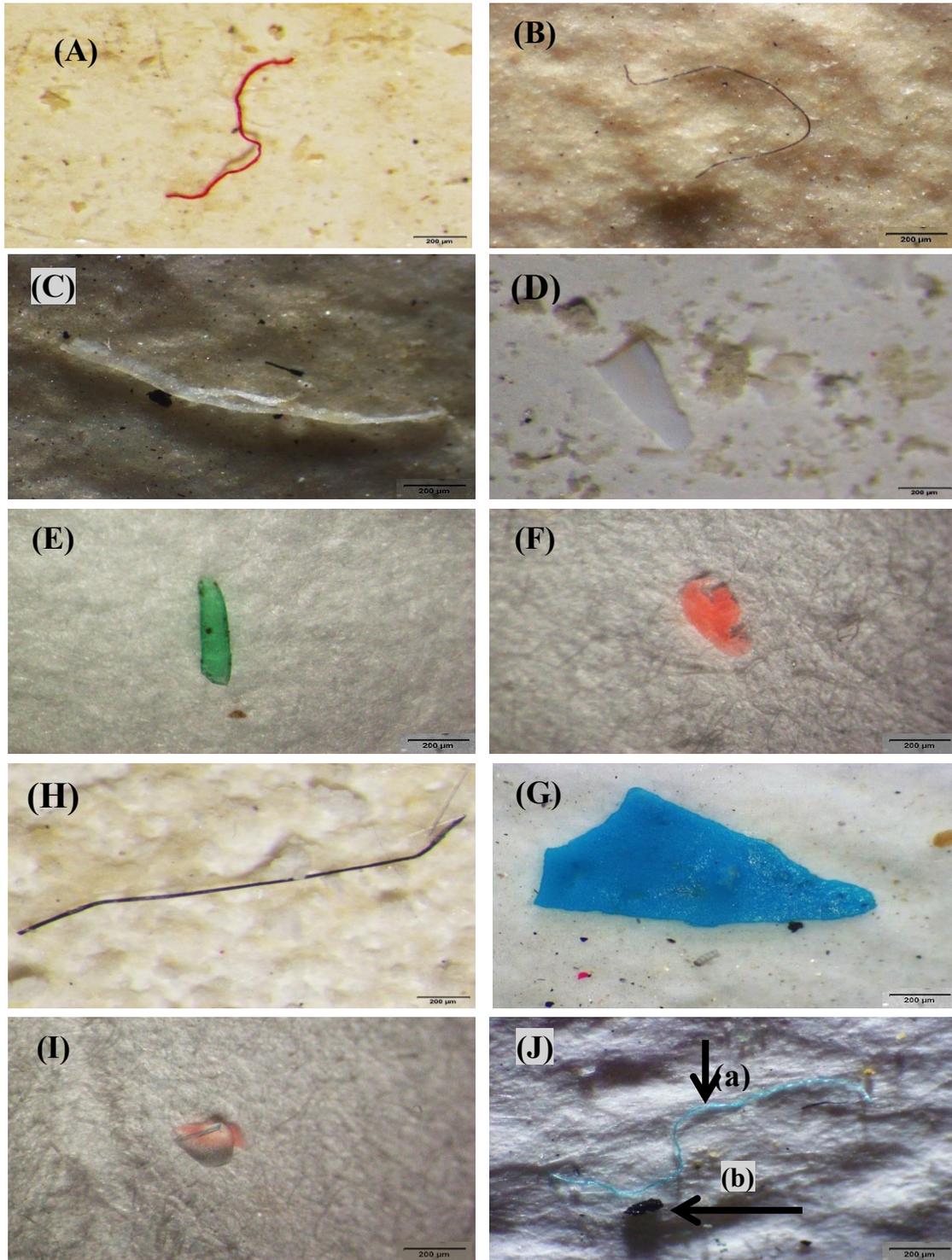
Zaman M, Haque I, Hasan MM, Chowdhury AF, Billah MB, Faruque MH (2026) Microplastic pollution in edible marine fish from the northwestern Bay of Bengal, Bangladesh: A comprehensive assessment of occurrence, characteristics and associated ecological risks. Journal of Fisheries 14(1): 141217. DOI: 10.17017/j.fish.1208

**Table S1** Details of data on studied fish species for microplastics contamination and risk assessment in the northwestern Bay of Bengal, Bangladesh.

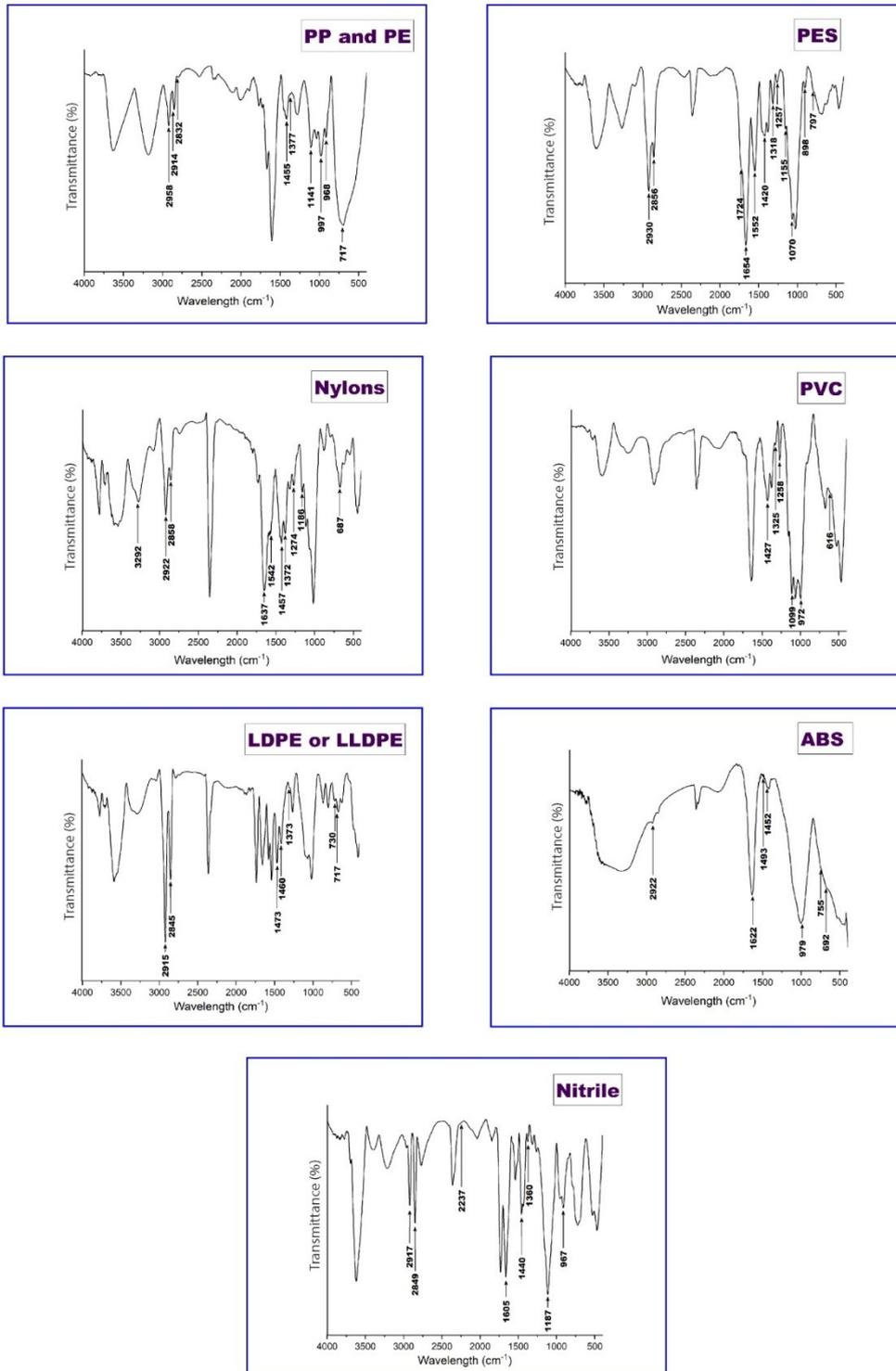
<b>Scientific Name</b>	<b>English name</b>	<b>Local Name</b>	<b>Feeding Habitat</b>	<b>Feeding Group</b>
<i>Pennahia argentata</i>	Silver white croaker	Poisha Poa / Rupali Poa	Benthopelagic	Carnivore
<i>Otolithoides pama</i>	Long-finned croaker	Pama Poa / Poa Mach	Benthopelagic	Carnivore
<i>Sardinella longiceps</i>	Sardine	Sardin / Olua / Sardin Mach	Pelagic	Planktivore
<i>Antigonia rubescens</i>	Indo-Pacific boarfish	No established local name	Benthopelagic	Carnivore
<i>Cynoglossus semilaevis</i>	Tongue sole	Bash pata mach	Demersal	Carnivore
<i>Sillago parvisquamis</i>	Small scale whiting	Tular Dandi / Meni Mach	Demersal	Carnivore
<i>Lates calcarifer</i>	Asian sea bass	Koral / Bhetki	Demersal	Carnivore
<i>Tenualosa toil</i>	Toli shad	Toli Ilish / Chanda Ilish	Pelagic-neritic	Planktivore
<i>Lutjanus russellii</i>	Russell snapper	Lal Snapper / Ranga Pahari Mach	Reef-associated (Demersal)	Carnivore
<i>Harpadon nehereus</i>	Bombay duck	Loitta	Benthopelagic	Carnivore
<i>Setipinna taty</i>	Scaly hairfin anchovy	Tati / Ilish Chhoto	Pelagic	Planktivore
<i>Trichiurus lepturus</i>	Largehead hairtail	Chhuri Mach	Benthopelagic	Carnivore
<i>Lobotes surinamensis</i>	Atlantic tripletail	Koi Koral	Benthopelagic	Carnivore



**Figure S1** Procedures for detecting microplastics in fish including: sample preparation, digestion, observation, and analysis.



**Figure S2** Identified microplastics (A-B) fiber; (C-D) film; (E-H) fragment; (G) foam; (I) Pellet; and (J) Fragment (a), Pellet (b) found in marine fish species under stereo microscope.



**Figure S3** Identification of MPs Types in Marine Fish Samples using FTIR Spectra: Polymer types are determined based on characteristic peak positions, including (A) PP-PE Copolymer, (B) PES, (C) Nylons, (D) PVC, (E) LDPE/LLDPE, (F) ABS, and (G) Nitrile.