**Supplementary Table 1** Global marine litter density, abundances, CCI, and PAI, reported from other studies.

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| **S. No** | **Region** | **Density** | **Abundances** | **CCI** | **PAI** | **Authors** |
| 1 | Kanyakumari beach | 6.71 items/m2 | Plastics (65.08%), foam (21.93%), glass (2.16%), metal (0.38%), papers (2.26%), cloths (4.59%), wood (0.26%), rubber (3.09%), and others (0.26%) | Extremely dirty | Moderate | Present study |
| 2 | Istanbul beaches, Turkey | 1841 g | Macro (47.8%), meso (9.2%) plastics and others (43%) | Extremely dirty | - | Akarsu et al., 2022 |
| 3 | The Cox's Bazar coast of Bay of Bengal, Bangladesh | 0.27 items/m2 | Fishing nets, fragments of plastic, plastic bottles, plastic cups, plastic fragments, polythene bags, straws, and styrofoam | Dirty | - | Rakib et al., 2022 |
| 4 | Thondi, Palk Bay, Southeast India | 1636 items/m2 | Plastics, cotton swabs, cigarette butts, and food containers | Clean-extremely dirty | **-** | Karthikeyan et al., 2021 |
| 5 | The Vina del Mar - Valparaiso region of Chile | 0.21 items/m2 | Plastics (42%), cigarette butts (25.4%), and paper-cardboard (20.8%). | Dirty | Low - moderate | Barria-Herrera et al., 2021 |
| 6 | Santos Estuarine, Brazil | 1.23 items/m2 | plastics (65.5%), CB (23.7%), pellets (16.4%), XPS (10.9%). | Extremely dirty | **-** | Ribeiro et al., 2021 |
| 7 | Mkomani beach,  Kenya | 0.115 items/m2 | Plastics (49.9%), food products packaging, PC, HP, PET, SL, HDPE, PP, and PVC | Extremely dirty | - | Okuku et al., 2021 |
| 8 | Beaches in Puerto Princesa, Palawan Island, Philippines | 5.58 items/m2 | Plastics, fishing line (nylon), food packaging, and fragments | Extremely dirty | - | Sajorne et al., 2021 |
| 9 | Beach in Southeast Brazil | 62638 items/m2 | Plastics (66.6%), metal (5.9%), paper (3.2%), wood (1.2%), glass (0.6%), others (3.1%) | Extremely dirty | - | Ribeiro et al., 2021 |
| 10 | Central Caribbean Coast of Colombia | 4.54 items/m2 | Plastic (89%), rubber, textile, paper, processed wood, metal, glass, biohazards, organic and miscellaneous items (11%) | Extremely dirty | Very high abundance | Rangel-Buitrago et al., 2020 |
| 11 | Colombia's central Caribbean beaches | 6.05 items/m2 | Plastic (88.9%), rubber (3.04%), glass (1.65%), others (6.4%) | Extremely dirty | - | Rangel-Buitrago et al., 2020 |
| 12 | Beaches of Tuticorin district, Southeast coast of India | 6.16 items/m2 | Fiber (33.34%), film (20%),  fragment (46.66%) | Extremely dirty | - | Jeyasanta et al., 2020 |
| 13 | West coast of Qatar | 1.98 items/m2 | Plastics (71.4%), metal (9.3%), glass (5.1%), paper (4.4%), fabric (4.0%), rubber (3.9%), and processed wood (2.0%) | Dirty to extremely dirty | - | Veerasingam et al., 2020 |
| 14 | The Vina del Mar - Concon coastal strip, Valparaiso region, Chile | 0.32 items/m2 | Plastic (42.40%), paper-cardboard (23.45%), wood- machined (3.56%) Metal, glass, sanitary waste, pottery, cloth, faeces (6.31%). | Dirty | - | Rangel-Buitrago et al., 2020 |
| 15 | Atlantico Department Beaches, Colombian Caribbean coast | 3.5 items/m2 | Plastic (58%) and polystyrene (30%),  rubber, textile, paper, processed wood, metal, glass, biohazards, fishing gear, organic, mix (13%) | Extremely dirty | - | Rangel-Buitrago et al., 2019 |
| 16 | Beach off southwestern Luzon, Philippines | 769 items | Plastics (85%) | Dirty | - | Rangel-Buitrago et al., (2019) |
| 17 | Colombian Caribbean Sea | 2.87 items/m2 | Plastic (88.59%), glass (4.25%), metal (2.92%), medical waste (2.37%), wood (0.97%), pottery (0.35), sanitary waste (0.28), rubber (0.14), and cloth (0.14) | Extremely dirty | - | Rangel-Buitrago et al., 2019 |
| 18 | Las Salinas beach, Vina Del Mar (Chile) | 0.34 items m2 | Cigarette butts (38%), plastic (32%), paper-cardboard (15%), polystyrene (6%), machined wood (3%), metal (2%), Glass, brick, organic items, cloth, sanitary waste, rubber, and other pollutants represent less than 4%. | Moderate | - | Rangel-Buitrago et al., 2019 |
| 19 | Pelagos sanctuary (Ligurian Sea - NW Mediterranean Sea) | 34027 items/m2 | Plastic, foam/sponge, textiles, rubber and glass, polystyrene | Extremely dirty | - | Giovacchini et al., 2018 |
| 20 | Eastern Mediterranean | 3305 items/m2 | Foam, cloth, glass, metal, paper, rubber, and wood | Very clean - extremely dirty | - | Portman and Brennan (2017) |
| 21 | Slovenia | 1.51 items/m2 | Plastic (64%), paper (19%), glass and ceramics (11%), metal (2%), and rubber (1%) | Extremely dirty | - | Laglbauer et al., 2014 |