

## Supplementary file

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Figure A1. Sources of E-waste

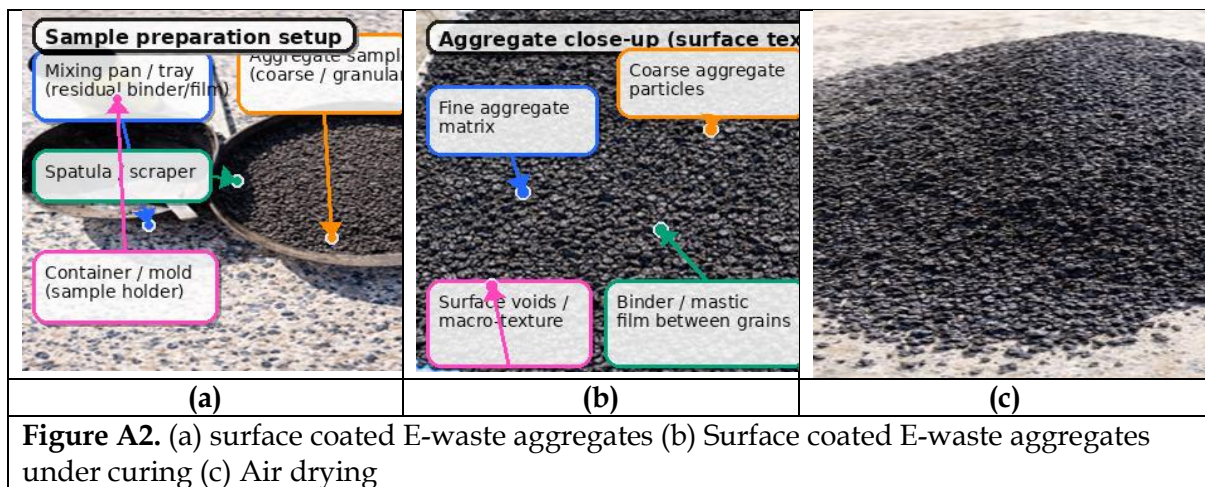
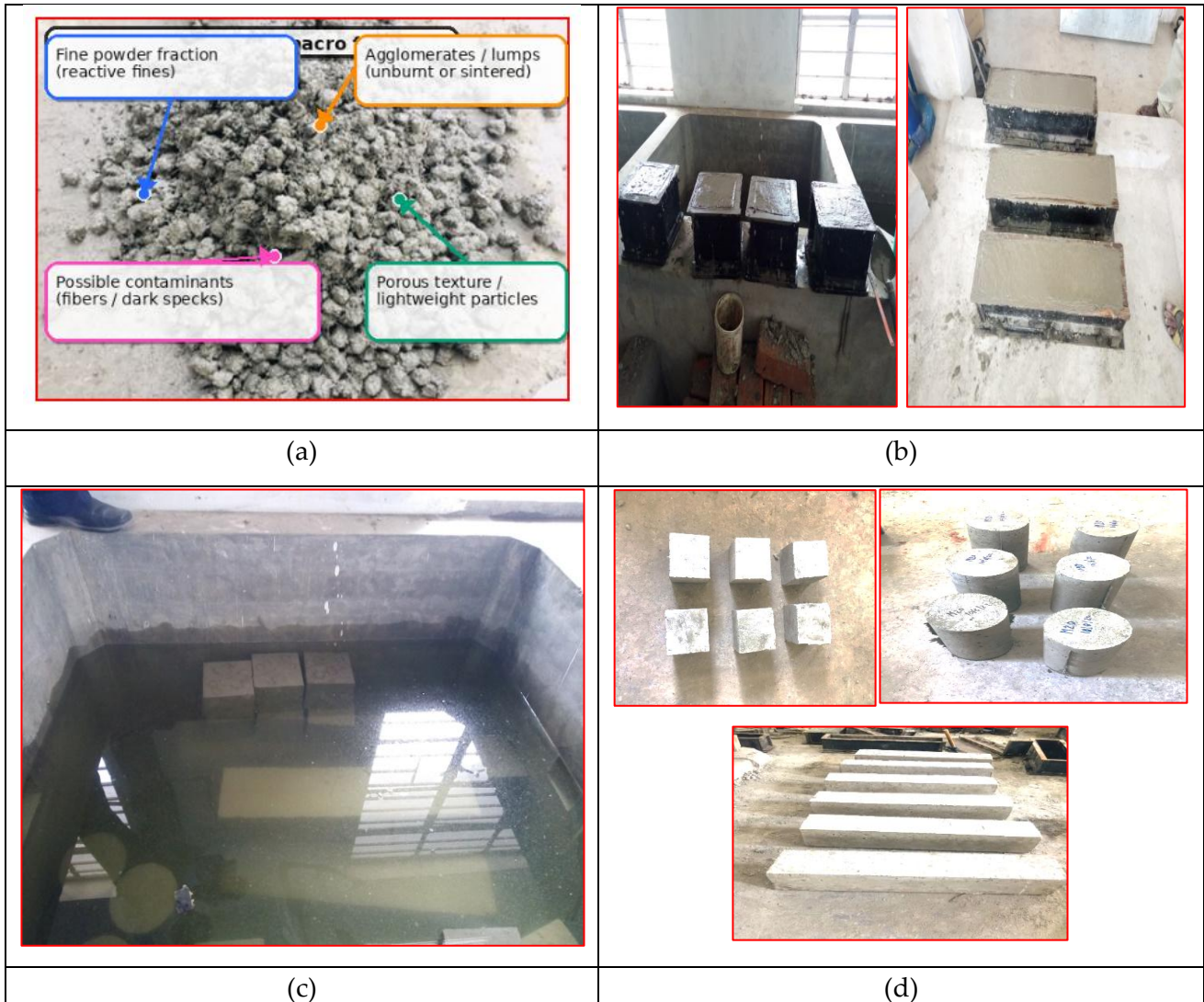


Figure A2. (a) surface coated E-waste aggregates (b) Surface coated E-waste aggregates under curing (c) Air drying



**Figure A3.** Preparation of M30 concrete test specimens: (a) concrete mixing, (b) casting in steel moulds, (c) curing, and (d) cube, cylinder, and prism specimens used for testing

## List of Tables

**Table B1.** Properties of Aggregate

| S/No | Properties            | Fine Agg | CA    | RCA   | ECRA  | IS code values          |
|------|-----------------------|----------|-------|-------|-------|-------------------------|
| 1    | Specific gravity      | 2.75     | 2.75  | 2.49  | 2.85  | IS 2386: Part 3 (1997)  |
| 2    | Fineness modulus      | 2.93     | 6.66  | 7.11  | 7.55  | IS 383: Part 3 (2016)   |
| 3    | Impact test (%)       | -        | 18.67 | 22.36 | 24.66 | IS 383: Part 3 (2016)   |
| 4    | Crushing strength (%) | -        | 10.23 | 21.34 | 15.44 | IS 2386: Part 3 (1997)  |
| 5    | Water absorption (%)  | 1.25     | 0.5   | 2.1   | 1.7   | IS 2386: Part 3 (1997)) |
| 6    | Abrasion test (%)     | -        | 9.3   | 19.2  | 14.4  | IS 2386: Part 3 (1997)  |

**Table B2.** Properties of E-waste Powder

| S/No | Items       | Standard     | Results |
|------|-------------|--------------|---------|
| 1    | Appearance  | White Powder | White   |
| 2    | Purity (%)  | ≥99.5        | 99.8    |
| 3    | Moisture    | ≤0.1         | 0.08    |
| 4    | Ash content | ≤0.03        | 0.03    |
| 5    | Colority    | ≤20          | 10      |
| 6    | Turbidity   | ≤20          | 10      |
| 7    | PH value    | 7.5 – 9.5    | 7.8     |