

## Efficiency of Microbial Desalination Cells for Treating Wastewater, Desalinating Saltwater, and Generating Bioelectricity in Bangladesh

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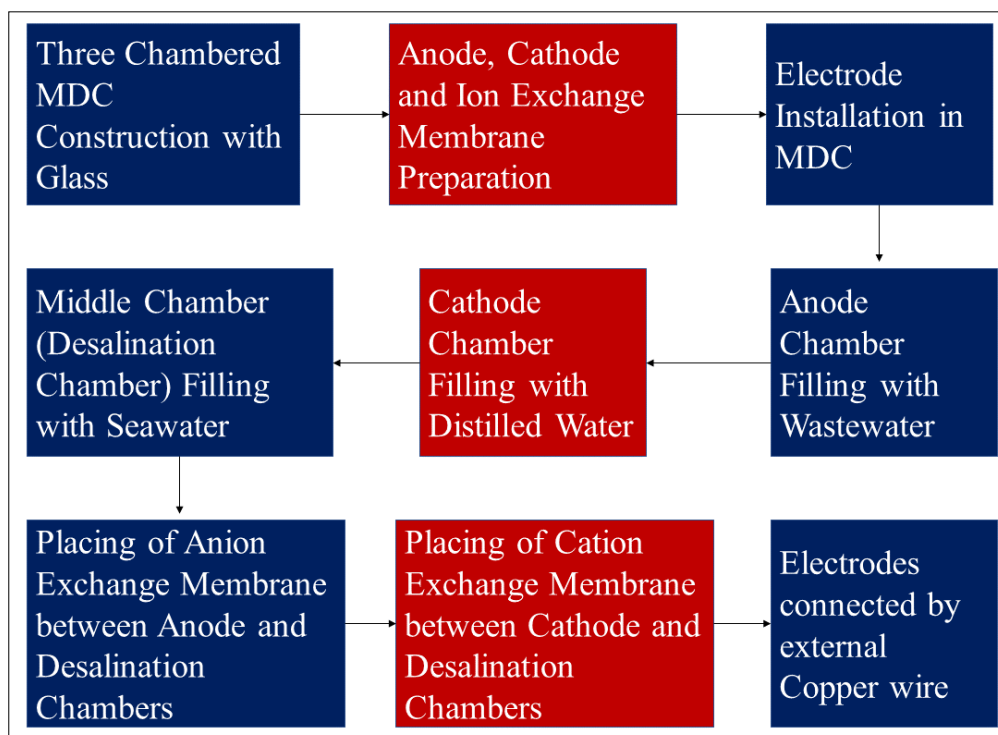
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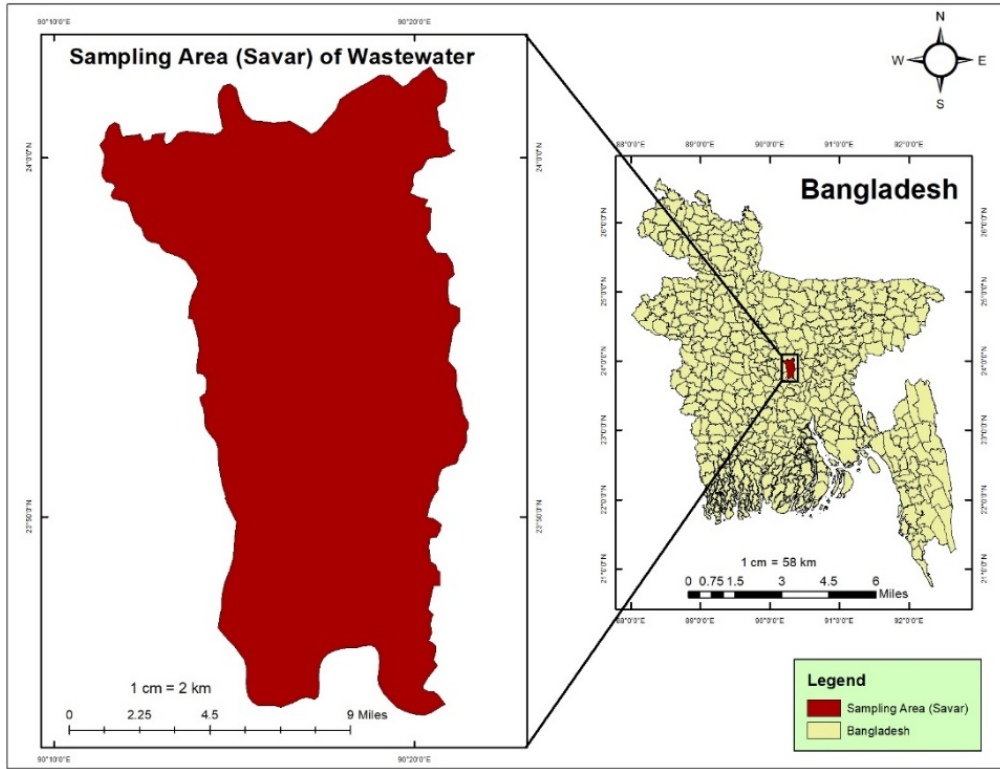
**Table S1. Physicochemical Parameters of Textile and Tannery Wastewater (mean±SD (n=3))**

| SL No. | Parameters | Values             |                    | National Standard of wastewater discharge to Inland Surface Water (ECR'1997, Schedule-10) |
|--------|------------|--------------------|--------------------|---|
|        |            | Textile wastewater | Tannery wastewater |   |
| 1      | Color      | Black              | Grayish            | -   |
| 2      | pH         | 10.03±0.01         | 6.315±0.0015       | 6-9   |
| 3      | TDS (ppt)  | 7.15±1.73          | 9.29±0.095         | 2100  |

|   |                    |            |            |       |
|---|--------------------|------------|------------|-------|
| 4 | Turbidity<br>(NTU) | 324±0.1    | 366.67±1.5 | -     |
| 5 | DO (ppm)           | 3.7±0.01   | 4.65±0.017 | 4.5-8 |
| 6 | EC (ms/cm)         | 18.6±0.005 | 12.63±0.19 | 1200  |
| 7 | Salinity (ppt)     | 5.10±0.015 | 7.26±0.01  | -     |
| 8 | BOD (ppm)          | 360±0      | 150±0      | 50    |
| 9 | COD (ppm)          | 854±0      | 1013±0     | 200   |

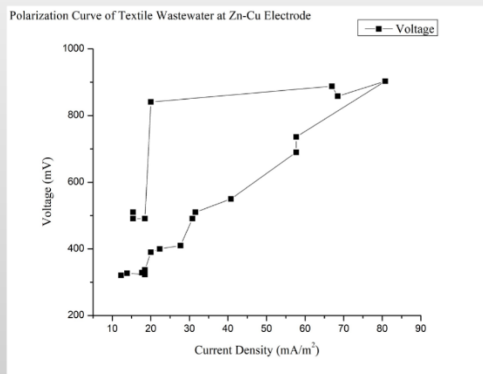


*Fig. S1. MDC Construction Steps*

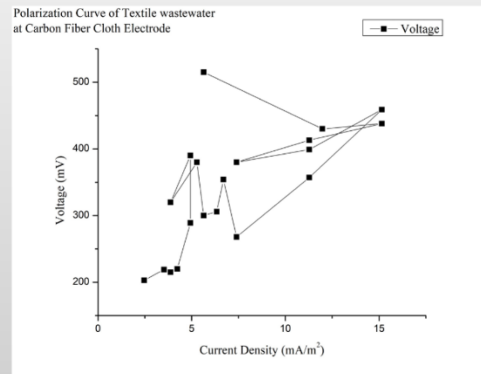


*Fig. S2. Sampling Location of Wastewater.*

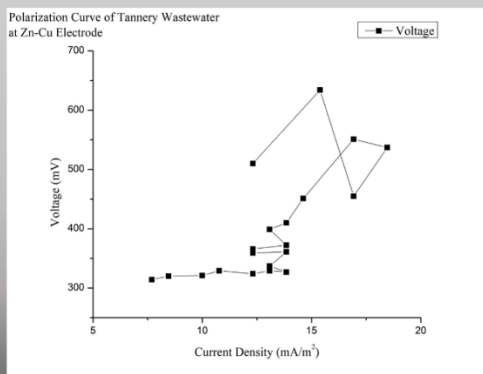
## Polarization Curve of MDCs



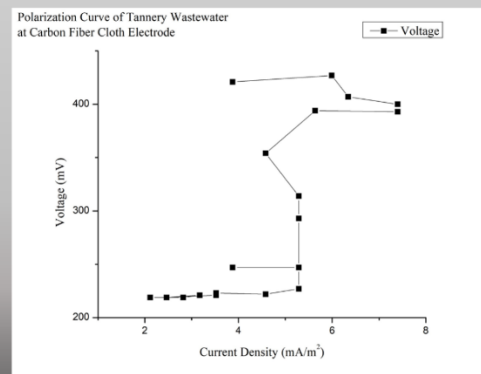
**A**



**B**



**C**



**D**

**Fig. S3. Polarization Curve of MDCs (A) Textile Wastewater Containing Zn-Cu Electrode (B) Textile Wastewater Containing Carbon Fiber Cloth Electrode (C) Tannery Wastewater Containing Zn-Cu Electrode (D) Tannery Wastewater Containing Carbon Fiber Cloth Electrode**