ESRD
BANGLADESH

Company Profile

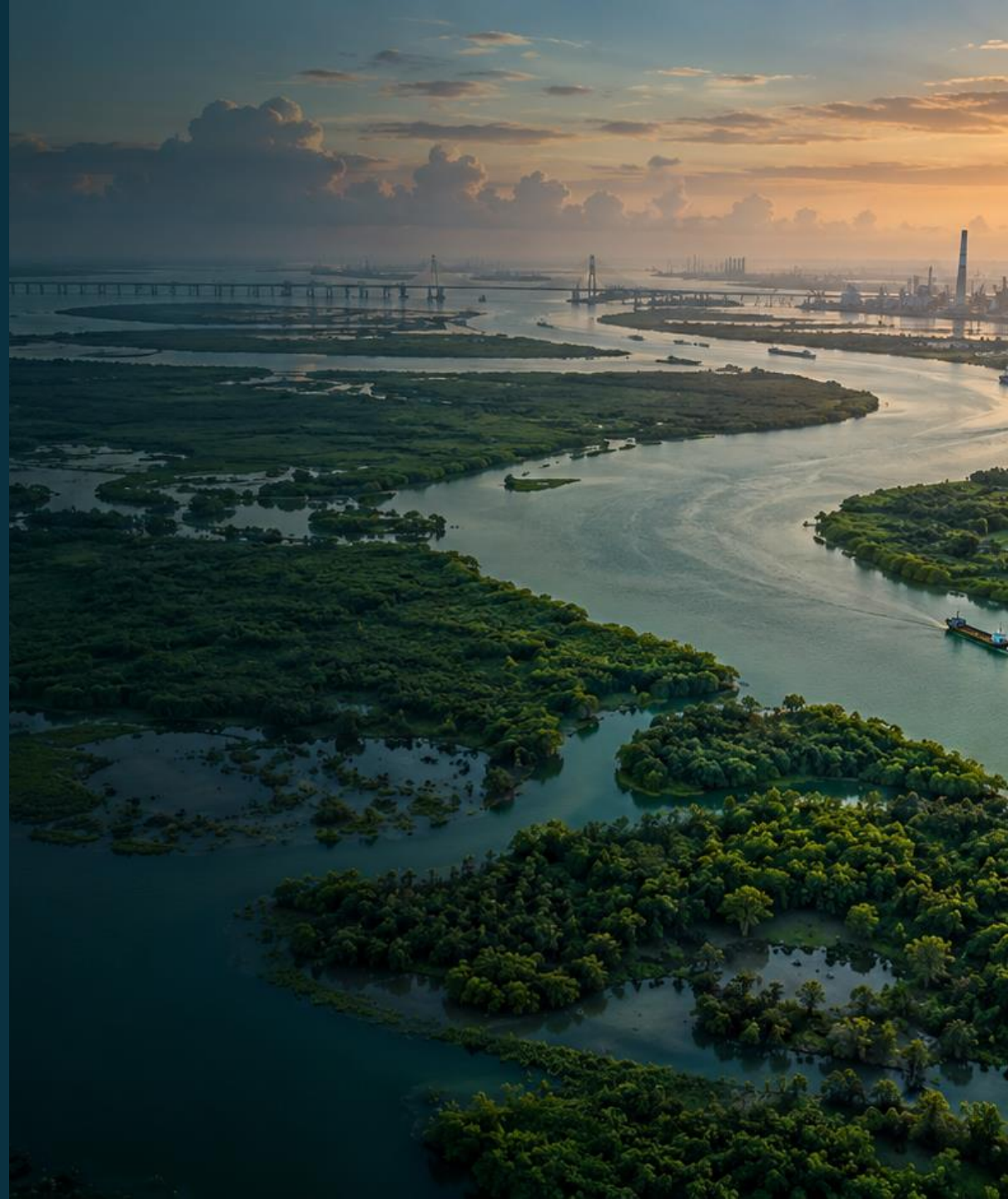
Environmental, Social, Engineering and Sustainability Consultancy

Environmental Engineering and Management Consultancy

Consultancy experience since 2009

2026 EDITION

www.esrdbd.com



About ESRD Bangladesh

Established in 2009

ESRD Bangladesh supports public and private projects with environmental approvals, social safeguards, engineering studies, development planning and operational compliance.

Our work connects field evidence, regulatory requirements and practical design decisions across economic zones, manufacturing, energy, healthcare, infrastructure and water systems.

Environmental Engineering and Management Consultancy



Experience and direction

2009

year established

16+

years of consultancy experience

500+

environmental and social studies

200+

water and wastewater projects

Purpose

To help projects meet environmental and social obligations through evidence-based studies and practical implementation support.

Working principle

Clear scope, reliable field data, defensible analysis and deliverables that clients can use during approval, construction and operation.

Integrated consultancy services

01

Environmental assessment

Screening, IEE, EIA, ESIA, ESDD, ESMP and regulatory support

02

Monitoring and compliance

Baseline surveys, construction monitoring, audits and corrective actions

03

Social safeguards

SIA, SEP, GRM, gender, inclusion and community assessment

04

Land and resettlement

LAP, RAP, LRP, valuation surveys and implementation support

05

Ecology and biodiversity

Ecological baseline, habitat assessment and conservation planning

06

GIS and modeling

Remote sensing, spatial analysis, mapping and environmental modeling

07

Risk and climate

Disaster risk, EHS, climate resilience and GHG assessment

08

Engineering and planning

Feasibility, master planning, TIA, utilities and treatment consultancy

Environmental assessment and approvals

Studies that define risks, alternatives, mitigation and approval requirements

- Site selection, screening and scoping
- Initial Environmental Examination (IEE)
- Environmental Impact Assessment (EIA)
- Environmental and Social Impact Assessment (ESIA)
- Environmental and Social Due Diligence (ESDD)
- ESMF, ESMP, EMP, CEMP and environmental guidelines
- Environmental clearance and regulatory submission support



Environmental and social monitoring



FROM BASELINE TO OPERATIONS

- Environmental and social baseline surveys
- Air, noise, water, soil and workplace monitoring coordination
- Construction and operational compliance audits
- ESMP and CEMP implementation monitoring
- Environmental Management Information Systems (EIMS)
- Corrective action tracking and management reporting
- Environmental and social safeguard training

Social safeguards and stakeholder engagement

People-centered assessment and management across the project lifecycle

- Social Impact Assessment (SIA)
- Socioeconomic and institutional studies
- Stakeholder Engagement Plan (SEP)
- Stakeholder Implementation Plan (SIP)
- Grievance Redress Mechanism (GRM)
- Gender Action Plan and inclusion measures
- Indigenous Population Action Plan
- Community Needs Assessment and CSR planning



Land acquisition and resettlement



- Land Acquisition Plan (LAP) and land surveys
- Resettlement Action Plan (RAP)
- Inventory of losses and property valuation
- Livelihood Restoration Plan (LRP)
- Resettlement implementation and monitoring
- LAP, RAP and LRP implementation support
- Social management and resettlement policy frameworks
- Accommodation, workforce and market assessments

Ecology and biodiversity

Field evidence for sensitive habitats and resource-dependent communities

- Ecological baseline and habitat assessment
- Vegetation, wildlife and aquatic ecology surveys
- Biodiversity conservation management planning
- Critical habitat screening and impact evaluation
- Greenbelt and habitat enhancement planning
- Ecological monitoring during implementation
- Fisheries and ecosystem-resource studies



GIS, remote sensing and spatial analysis

01

Spatial data management

Digitization, georeferencing, ground truthing and structured geodatabases

02

Remote sensing

Landsat and Sentinel analysis, change detection and land-cover mapping

03

Site suitability

Constraint mapping, alternatives analysis and development screening

04

Environmental mapping

Baseline, impact, monitoring and risk maps for reports and approvals

05

Infrastructure planning

Land use, access, utility corridors and industrial zoning support

06

Data visualization

Thematic maps, dashboards and clear decision-ready figures

Risk, disaster and environmental modeling

Risk-based analysis for industrial, infrastructure and climate-sensitive projects

01

Hazard and disaster risk

Hazard identification, vulnerability assessment and emergency planning

02

Air and noise

Dispersion and noise-impact assessment based on project requirements

03

Industrial safety

EHS audits, occupational risk review and corrective action planning

04

Climate risk

Flood, cyclone, heat and climate-vulnerability screening

05

Waste risk

Hazardous and toxic-waste assessment and management plans

06

Decision support

Risk registers, mitigation priorities and monitoring indicators

Climate and sustainability advisory

- Climate-change risk and adaptation planning
- Greenhouse-gas inventory and carbon-footprint studies
- Resource-efficiency and cleaner-production assessments
- Water stewardship and industrial reuse planning
- Waste minimization, 3R and circularity studies
- Sustainability indicators and management reporting
- Training, research and capacity-building programmes



Water resources and treatment consultancy

- Water-resource baseline and demand assessment
- Surface-water and groundwater studies
- Drainage, stormwater and flood-management planning
- ETP, STP, CETP and WTP process review
- Industrial water reuse, MLD and ZLD planning
- Technical BOQ, tender and implementation support
- Commissioning and operational performance review



Planning and engineering advisory



Environmental decisions linked to project development and investment planning

01

Feasibility studies

Technical, environmental, social and implementation feasibility

02

Master planning

Land-use planning, industrial zoning and utility coordination

03

Traffic studies

Traffic Impact Assessment, access, circulation and parking review

04

Infrastructure planning

Roads, drainage, water, power and service-corridor coordination

05

Tender support

Scope, specifications, BOQ and technical evaluation

06

Implementation support

Approval follow-up, supervision, monitoring and performance review

Assignment delivery process

01	**Define**	Objectives, standards, permits and decision points
02	**Investigate**	Field surveys, laboratory data, GIS and consultations
03	**Assess**	Impacts, alternatives, risks and design options
04	**Plan**	Mitigation, monitoring, budgets and responsibilities
05	**Approve**	Submission packages and responses to authority comments
06	**Support**	Implementation monitoring and operational improvement

Sector experience

01 **Economic zones**

02 **Power and renewable energy**

03 **Textile and garments**

04 **Food, sugar and edible oil**

05 **Chemical, steel and materials**

06 **Pulp and paper**

07 **Healthcare and pharmaceuticals**

08 **Ports and infrastructure**

09 **Water, wastewater and sanitation**

10 **Urban development and real estate**

11 **Roads, traffic and logistics**

12 **Agriculture and ecology**

Economic zones

Environmental studies, land planning and compliance for multi-tenant industrial developments

SELECTED ASSIGNMENTS

01 **Standard Global Economic Zone**

02 **Meghna Industrial Economic Zone**

03 **Meghna Economic Zone**

04 **Hosendi Economic Zone**

05 **City Economic Zone**



Power and renewable energy

Assessment and compliance for utility, captive and renewable generation

SELECTED ASSIGNMENTS

01 **Orion Power Sonargaon Limited, 104 MW HFO**

02 **Orion Group, 100 MW solar power project**

03 **MIEZ Power Limited, 107.587 MW combined cycle**

04 **Dhaka North Power Utility, 108 MW HFO**

05 **Meghna Sugar Refinery, 34.6 MW captive power**



Textile and garments

Environmental assessment and management for wet processing and apparel

SELECTED ASSIGNMENTS

01 **Concord Knitting and Dyeing Industries**

02 **Well Composite Knit Limited**

03 **Cotton Club Bangladesh Limited**

04 **Antim Knit Composite Limited**

05 **Orion Knit**



Food, sugar and edible oil

Assignments in refining, milling, beverage and food processing

SELECTED ASSIGNMENTS

01 **Meghna Sugar Refinery Limited**

02 **City Sugar Refinery Industries Limited**

03 **Meghna Edible Oil Refinery Limited**

04 **City Seed Crushing Industries Limited**

05 **Rupshi Flour Mills Limited**



Chemical, steel and materials

Environmental studies for complex industrial processes

SELECTED ASSIGNMENTS

01 **Bashundhara Chemical Industry Limited**

02 **Bashundhara Multi-Steel Limited**

03 **Meghna PVC Industries Limited**

04 **Siegwerk Bangladesh Limited**

05 **Sakata Inx (Bangladesh) Private Limited**



Pulp and paper

Approval, compliance and treatment planning for resource-intensive mills

SELECTED ASSIGNMENTS

01 **Meghna Pulp and Paper Mills Limited**

02 **Tanveer Paper Mills Limited**

03 **U.K. Bangla Paper Limited**

04 **Paper-sector assignments in Meghna Economic Zone**



Healthcare and pharmaceuticals

Environmental planning for hospitals and pharmaceutical facilities

SELECTED ASSIGNMENTS

01 **Asgar Ali Hospital**

02 **IBN SINA Medical College & Hospital**

03 **Islami Bank Hospital**

04 **Healthcare Pharmaceuticals Limited**

05 **Teaching & Training Pet Hospital and Research Center**



Ports and infrastructure

Studies for terminals, jetties, utilities and connected infrastructure

SELECTED ASSIGNMENTS

01 **Meghna Container Terminal Limited**

02 **City LPG Limited terminal and jetty**

03 **Arisha Economic Zone infrastructure**

04 **Karnafuly Dry Dock Limited**

05 **Economic-zone land and utility corridors**



Water and wastewater

Industrial, institutional and shared treatment-system consultancy

SELECTED ASSIGNMENTS

01 **Asgar Ali Hospital, ETP and EMP**

02 **IBN SINA Medical College & Hospital, STP design**

03 **Islami Bank Hospital, ETP design consultation**

04 **Industrial treatment work across textile clients**

05 **Economic-zone utility and treatment planning**



Selected assignment portfolio

ASSIGNMENT SETTING	TYPICAL ESRD SCOPE
Economic zones	EIA, ESIA, EMP, land planning and industrial tenant support
Industrial plants	IEE, EIA, ECC, renewal, monitoring and improvement plans
Power projects	IEE, EIA, environmental clearance and compliance monitoring
Healthcare	EMP, ETP, STP and operational compliance
Infrastructure	Environmental assessment, traffic and master planning
Water systems	Treatment review, reuse planning, BOQ and implementation support

Representative client groups

Meghna Group

Economic zones, paper, sugar, edible oil and power

Bashundhara Group

Chemical, steel and industrial facilities

Standard Group

Textile and economic-zone projects

City Group

Economic zones, food processing, sugar and edible oil

Orion Group

Power and industrial developments

Healthcare clients

Hospitals and pharmaceutical facilities

Multidisciplinary project teams

ESRD assembles each team around the project's technical, environmental and social risks.

- **Environmental assessment**
- **Water and wastewater engineering**
- **GIS and remote sensing**
- **Traffic and infrastructure planning**
- **Stakeholder engagement**
- **Social safeguards and resettlement**
- **Ecology and biodiversity**
- **Risk and climate assessment**
- **Field surveys and laboratory coordination**
- **Regulatory and implementation support**

Why clients work with ESRD

01	**Relevant experience**	Assignments across industrial, energy, infrastructure and development settings
02	**Connected scope**	Environmental, social, planning, GIS and treatment advice within one team
03	**Local execution**	Bangladesh field, stakeholder and regulatory experience
04	**Practical deliverables**	Clear studies, drawings and management plans that support approval and implementation

ESRD BANGLADESH

Let’s discuss your project

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