



**GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH**

**Local Government Engineering Department (LGED)**

**Local Government Division**

**Ministry of Local Government, Rural Development and Cooperatives**

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## **ENVIRONMENTAL AND SOCIAL ASSESSMENT (ESA) REPORT FOR**

**Package No: RUTDP/GOD/ 2024-25/W-01**

**at**

**Godagari Pourashava, Rajshahi**



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**Resilient Urban and Territorial Development Project (RUTDP)  
Design, Supervision, and Management (DSM) Consultancy Services  
Eptisa Servicios de Ingenieria, S.L (Eptisa), Madrid, Spain**

**Joint Venture with**

**AQUA Consultants & Associates Ltd., Bangladesh;  
Dev Consultants Limited (DEVCON), Bangladesh;  
Design, Planning & Management Consultants Ltd. (DPM), Bangladesh**



**SUMMARY OF ESA REPORT**  
**Resilient Urban and Territorial Development Project (RUTDP)**  
**Package No: RUTDP/GOD/2024-25/W-01 at Godagari Pourashava, Godagari**

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## 1. Subproject Overview

### Location & Scope:

Godagari Pourashava, a “B”-grade municipality in Rajshahi District (established in 1995), covers about **14.27 sq km** with a population of **48,629 people (BBS 2022)**. The subproject, implemented under RUTDP, targets Wards 6 – 9 and includes:

- **Rehabilitation & reconstruction** of about **4.98 km** of Bituminous Carpeting (BC) roads;
- **RCC drains** with footpaths and **street lighting**;
- **Construction of a 2-vent (3.5 m × 6.0 m) box culvert** at Ch 0+927 m.

### Objectives of ESA:

- Assess baseline environmental & social (ES) conditions;
- Identify potential construction / operation-phase impacts;
- Develop an **Environmental & Social Management Plan (ESMP)** with mitigation & monitoring frameworks.

**Study Methodology:** Combination of desktop review, field investigation, stakeholder consultation (FGDs, interviews), and data analysis for baseline profiling and ES impact evaluation.

### The present situation of the subproject area:



## 2. Existing Environment & Baseline Findings

### 2.1 Physical Setting

- **Geology & Soil:** Alluvial deposits of the Ganges floodplain with sandy- to clay-loam texture; fertile yet erosion-prone; moderately well drained.

- **Topography:** Gently sloping Barind Tract terrain, largely flood-free but low-lying pockets suffer temporary monsoon waterlogging.
- **Seismic Zone:** Zone III (Moderate).

## 2.2 Climate & Meteorology

- **Type:** Warm temperate.
- **Mean annual temperature:** 25.4 °C; **annual rainfall:** ~1588 mm.
- **Hottest month:** May (29.2 °C); **coolest:** January (17.8 °C).
- **Peak rainfall:** June – September (monsoon).

## 2.3 Hydrology & Drainage

- **Surface water:** Padma & Mahananda Rivers (flow reduced, polluted by urban runoff).
- **Groundwater:** Shallow alluvial aquifer (7.6–11.3 m bgl); arsenic, iron & manganese contamination risks noted.
- **Flooding:** Generally, “normal / no-flood” zone but suffers localized drainage congestion due to narrow, silted drains and poor outfalls.

## 2.4 Air, Noise & Waste

- Air quality = generally clean; localized dust from unpaved roads & vehicles.
- Noise from mixed traffic and machinery within tolerable limits.
- Solid waste ≈ 0.25 kg/person/day (~66 t/day); no permanent landfill—temporary disposal at Mohishal Bari R&H site.

## 2.5 Biotic Environment

- **Flora:** Sal, Neem, Siris, Tamarind, Mango, Jamun, plus exotics (Eucalyptus, Acacia).
- **Fauna:** Bengal fox, Indian hare, common myna, black drongo, snakes & lizards—typical of Barind Tract ecosystem.

## 2.6 Socio-economic Profile

- **Beneficiaries:** ~22 000 people directly.
- **Land use:** Densely built residential–commercial mix.
- **Literacy:** 81.2 % (higher than national 74.7 %).
- **Livelihoods:** Small business, agriculture, service & day-labor.
- **Tribal / Indigenous Peoples:** None present → ESS7 not triggered.
- **Land acquisition:** None required—works within municipal ROW.

## 3. Anticipated Impacts & Risk Categorization

### 3.1 Overall Classification

Regulation	Category	Risk Level
ECR 2023	Orange	—
World Bank ESF	Moderate Risk	—

Thus, a **detailed ESA with ESMP** (not a full ESIA) satisfies appraisal requirements.

### 3.2 Potential Negative Impacts

#### Construction Phase:

- Dust & air pollution from excavation, earth & asphalt works;
- Noise / vibration from compaction & machinery;
- Waste / oil spills affecting soil & water;
- Tree felling (~5 trees);
- Labor influx causing pressure on local resources and possible GBV risks;
- Temporary traffic disruption, safety hazards.

**Operation Phase:**

- Increased vehicular emission & noise;
- Drain clogging from solid waste;
- Minor accidents if traffic signage and streetlights not maintained.

**3.3 Positive Impacts**

- Better connectivity & reduced travel time;
- Improved drainage & reduced waterlogging;
- Employment for local labor during construction & maintenance;
- Nighttime safety via street lighting;
- Enhanced urban livability & economic growth.

**4. Mitigation & Enhancement Measures****4.1 Environmental Controls**

Issue	Key Mitigation
<b>Dust &amp; Air Pollution</b>	Regular water spraying, covered trucks, maintain moist soil during handling, proper vehicle maintenance.
<b>Noise &amp; Vibration</b>	Fit mufflers, schedule work daytime only, provide ear protection for workers.
<b>Water Pollution</b>	No waste dumping into rivers/drains; designated disposal at Mohishal Bari dump site.
<b>Tree Felling &amp; Compensation</b>	Fell ~5 trees → replant ≥ 60 local species (Mango, Neem, Rain Tree, Jarul etc.) with bamboo fencing and monitoring.
<b>Solid Waste &amp; Spills</b>	Storage on raised platforms, segregate hazardous wastes, regular collection & transport to dump yard.

**4.2 Occupational Health & Safety (OHS)**

- Provide PPE (helmets, gloves, boots, masks, reflective jackets).
- Ensure first-aid kits, safe machinery operation, drinking water & sanitary facilities.
- Compensation scheme for accidents.

**4.3 Community Health & Safety**

- Place signboards, barriers & traffic diversions; inform local residents in advance.
- Employ flag persons at busy crossings.
- Conduct awareness sessions on GBV, HIV/AIDS for workers and community.

**4.4 Labor Influx Management**

- Prefer local labor to minimize influx.
- Maintain labor camp hygiene & waste management.
- Strict monitoring of worker behavior; coordinate with local administration.

**5. Environmental and Social Management Plan (ESMP)****Institutional Arrangement:**

- **PMU-RUTDP (LGED)** – overall oversight & reporting to World Bank.
- **DSM Consultants** – technical supervision & ES monitoring.
- **PIU at Pourashava** – day-to-day implementation & community liaison.
- **Contractor** – ESMP execution on-site through dedicated EHS officer.

**Key Components:**

1. **Access to Information** – posting project details on notice boards and LGED website.
2. **Capacity Building** – training on ESF requirements, OHS & GRM for PIU and contractors.
3. **Emergency Response & Disaster Management** – preparedness plan for accidents, flood & fire.

4. **Environmental & Social Monitoring Plan** – visual & analytical monitoring of air, noise, water, soil during construction and operation.
5. **Cost Provision** – BOQ includes budget for tree plantation, safety gear, monitoring and training.
6. **Grievance Redress Mechanism (GRM)** – three-tier GRC at Pourashava, PIU, PMU levels for community complaints; time-bound resolution system.

## 6. Stakeholder Consultation & Participation

### Focus Group Discussions (FGDs):

- Participants included local residents, shopkeepers, rickshaw drivers, and women.
- **Key issues raised:** drainage clogging, dust pollution, traffic safety, employment for locals.
- **Community feedback:** overwhelmingly positive — strong support for the project; requests for timely execution and street lighting.
- Recommendations incorporated into the ESMP (e.g., tree plantation, dust suppression, employment priority for local youth).

## 7. Conclusions & Recommendations

- The proposed **BC road and RCC drain with box culvert and streetlights** in Godagari Pourashava will bring **significant social and economic benefits**—improved mobility, reduced waterlogging, enhanced safety and livelihood opportunities.
- All anticipated environmental impacts are **site-specific, temporary and manageable** through proper mitigation and monitoring.
- The subproject is therefore **environmentally sound and socially beneficial**, provided the contractor strictly implements the ESMP, OHS measures and community communication plan.
- **Continuous monitoring, capacity building and stakeholder engagement** are essential to sustain compliance with **World Bank ESS and ECR 2023** requirements.