

**Intergovernmental Eleventh Regional Environmentally
Sustainable Transport (EST) Forum in Asia**

**2-5 October 2018
Ulaanbaatar, Mongolia**

Sustainable Urban Design and Development ~ Role of EST

Country Report

(Draft)

< Bangladesh >

This country report was prepared by the Government of Bangladesh as an input for the Eleventh Regional EST Forum in Asia. The views expressed herein do not necessarily reflect the views of the United Nations.

Country EST Report of Bangladesh

11th Regional EST Forum in Asia, Ulaanbaatar, Mongolia

Abbreviation

Bangladesh Computer Council (BCC)

Bangladesh Energy Regulatory Commission (BERC)

Bangladesh Inland Water Transport Authority (BIWTA);

Bangladesh Inland Water Transport Corporation (BIWTC)

Bangladesh National Adaptation Program of Action (NAPA)

Bangladesh Petroleum Corporation (BPC)

Bangladesh Petroleum Corporation (BPC)

Bangladesh Railway (BR)

Bangladesh Road Transport Authority (BRTA)

Bangladesh Road Transport Corporation (BRTC)

Chittagong Development Authority (CDA)

Civil Aviation Authority of Bangladesh (CAAB)

Clean Air and Sustainable Environment (CASE)

Clean Air Monitoring System (CAMS)

Compressed Natural Gas (CNG)

Department of Environment (DoE);

Detailed Area Plan (DAP)

Dhaka Metropolitan Development Plan (DMDP)

Dhaka North City Corporation (DNCC)

Dhaka South City Corporation (DSCC)

Dhaka Transport Coordination Authority (DTCA)

Intelligent Transportation System (ITS)

Khulna Development Authority (KDA)

Ministry of Environment & Forests (MOEF)

Radio Frequency Identification (RFID)

Rajdhani Unnayan Kartiphakho (RAJUK)

Rajshahi Development Authority (RDA)

Regional Development Planning (RDP)

Roads and Highways Department (RHD)

Strategic Transport Plan (STP)

The National Integrated Multimodal Transport Policy (NIMTP)

Transport Demand Management (TDM)

Union Information and Service Centers (UISCs)

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a) Name of the Country: Bangladesh

b) Name, Designation and Line Ministry/Agency Respondent:

- 1. Md. Nazrul Islam , Secretary, Road Transport and Highways Division, Ministry of Road Transport and Bridges.**
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c) List of other Line Ministries/Agencies contributing to preparation of the Country Report:

- i) Dhaka Transport Coordination Authority (DTCA)
- ii) Bangladesh Road Transport Authority (BRTA)
- iii) Bangladesh Road Transport Corporation (BRTC)
- iv) Bridges Division, Ministry of Road Transport and Bridges
- v) Ministry of Environment & Forests (MOEF)
- vi) Ministry of Information & Communication Technology
- vii) Department of Environment (DoE)
- viii) Bangladesh Inland Water Transport Authority (BIWTA)
- ix) Bangladesh Inland Water Transport Corporation (BIWTC)
- x) Rajdhani Unnayan Kartiphakho ,RAJUK (Capital development Authority)
- xi) Bangladesh Petroleum Corporation (BPC)
- xii) Bangladesh Energy Regulatory Commission (BERC)
- xiii) Bangladesh Computer Council (BCC)
- xiv) Dhaka North City Corporation (DNCC)
- xv) Dhaka South City Corporation (DSCC)

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Goal No.	Goal Description	Voluntary Progress/Achievements/Major Initiatives, including any transport master plans, development of special transport corridors, in Implementing the Bangkok 2020 Declaration from the Lao EST Forum 2017 to the Mongolia EST Forum 2018.		
I. Strategies to <u>Avoid</u> unnecessary travel and reduce trip distances				
“Avoid” Strategy	1	Formally integrate land-use and transport planning processes and related institutional arrangements at the local, regional, and national levels	<p>Any action had been taken so far?</p> <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	<p>Barriers/Challenges faced in implementation:</p> <ul style="list-style-type: none"> • Lack of coordination among different implementing agencies. • Inadequate funding • Lack of institutional capacity.

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		<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <ol style="list-style-type: none"> i. National Integrated Multimodal Transport Policy (NIMTP) is in place. NIMTP emphasizes reduce the need for travel by better integration of Transport planning and Land use. (www.rthd.gov.bd). ii. Dhaka Structure plan (2016-2035) prepared by Rajdhani Unnayn Kartipakha (RAJUK) emphasis on Enhancing the Linkage between Land Use and Transport Network in Dhaka city. iii. Dhaka Transport Coordination Authority (DTCA) prepared Revised Strategic Transport Plan (RSTP) for Dhaka to be implemented over a period of 20 years (2016-2035). STP emphasizes in integration of Land Use and Transportation planning. (http://www.dtca.gov.bd). iv. Chittagong Development Authority (CDA), Khulna Development Authority (KDA) and Rajshahi Development Authority (RDA) have been created to ensure proper integration of land-use and transport planning.
		<p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> • Implementation of Dhaka Structure Plan. • Implementation of the RSTP. • Land use and Transport planning at local level. • Land readjust program by RAJUK

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		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> In the 7th Five Year Plan (2016-2020) Goal 11 is addressed by giving emphasis by ensuring better utilization of land resources and mitigating increased demand for housing and urban services. Para 114 of New Urban agenda will be addressed. 	
"Avoid" Strategy	<p>2 Achieve mixed-use development and medium-to-high densities along key corridors within cities through appropriate land - use policies and provide people - oriented local access, and actively promote transit-oriented development (TOD) when introducing new public transport infrastructure</p>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> Some progress (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Barriers/Challenges faced in implementation:</p> <ul style="list-style-type: none"> Already-built-areas constraints such mixed-use development program. Lack of institutional set up.
		<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant</p>	

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		<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <p>(i) Dhaka Structure plan (2016-2035) prepared by Rajdhani Unnayan Kartipakha (RAJUK) promote compact urban development.</p> <p>(ii) Feasibility study of TOD has been initiated along MRT and BRT corridors.</p> <p>(iii) The Dhaka Structure plan emphasis on TOD around key transit Stations.</p> <p>(iv) Establishment of satellite town, housing society etc.</p> <hr/> <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • This goal will assist in achieving SDG target 11.2 • Para 114 of New Urban agenda will be addressed. 	
"Avoid" Strategy	3 Institute policies, programmes, and projects supporting Information and Communications Technologies (ICT), such as internet access, teleconferencing, and telecommuting, as a means to reduce unneeded travel	Any action had been taken so far? <input type="checkbox"/> Not yet <input type="checkbox"/> Some progress (design – piloting) <input checked="" type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> • Internet infrastructure is inadequate in rural area. • Insufficient skilled manpower

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		<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <ul style="list-style-type: none"> (i) Video conferencing (VC) among Government offices has been introduced. Honorable Prime Minister inaugurates development projects and do meeting from her office through VC which reduce travel need of Honorable Prime Minister and other officials. (ii) District e-service centers and Union Information and Service Centers (UISCs) are there in place to provide all major public services (http://www.a2i.pmo.gov.bd) (iii) Online Air, Bus and Railway ticket reservation has been introduced. (iv) Online Payment for most of utility bills through cell-phone, Cards and other methods. (v) Online application for passports (http://www.passport.gov.bd/), online application to educational institutions and for recruitment have been introduced. Online purchase of books, groceries, etc. is gradually growing. (vi) Online payment of fees for Bangladesh Road Transport Authority and Online grievance redress system has been introduced. (vii) Introduction of smart card (Rapid pass) on selected bus routes in the city (http://www.dtca.gov.bd) (viii)E-procurement for Government purchases is in operation. (ix) Introduction of e-filing system in Government offices.
		<p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> (i) Regular Video -conference within different Government offices. (ii) E- filing in all Government offices. (iii)Online payment and shopping facilities will reach majority of the population.

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		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> In the 7th Five Year Plan (2016-2020) Goal 9.c is addressed by giving emphasis on Access to modern technology related to business and jobs would be expanded at a low cost. 		
II. Strategies to <u>Shift</u> towards more sustainable modes				
"Shift" Strategy	4	Require Non-Motorized Transport (NMT) components in transport master plans in all major cities and prioritize transport infrastructure investments to NMT, including wide-scale improvements to	<p>Any action had been taken so far?</p> <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> Land constraint does not always allow separate provision for NMT lanes. During rainy season walking and cycling is difficult.

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	pedestrian and bicycle facilities, development of facilities for intermodal connectivity, and adoption of complete street design standards, wherever feasible	<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <ul style="list-style-type: none"> (i) The National Integrated/ Multimodal Transport Policy (NIMTP) is in place. This policy places emphasis on NMT and intermodal transport plan (www.rthd.gov.bd) (ii) Designated lane for NMT in some selected urban roads and inter-city roads (iii) Footpath and over-bridges for safe pedestrian crossings (overpass and underpass) are largely in place in Dhaka city (iv) Separate lanes for NMTs have been introduced in major National Highways (v) Revised Strategic Transport Plan (RSTP) recommended 21 Intermodal locations within Dhaka city (vi) Improvements to pedestrian and bicycle facilities has been initiated in all major Urban area.
		<p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> (i) Bicycle lane in selected urban areas will be made. (ii) All National Highways will be upgraded providing separate NMT lane. (iii) Pedestrian facilities in Dhaka and in other cities will be improve.
		<p>What importance does this particular EST Goal attach in your country’s on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • SDG target 11.2 will be addressed • Para 114 of New Urban agenda will be addressed.

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“Shift” Strategy	5	<p>Improve public transport services including high quality and affordable services on dedicated infrastructure along major arterial corridors in the city and connect with feeder services into residential communities</p>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> Some progress (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Barriers/Challenges faced in implementation:</p> <ul style="list-style-type: none"> • Resistance from existing Operators. • Planning of improved public transport services is often hampered by built-up areas. • Inadequate funding
			<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <p>(i) Construction work of two mass transit projects, BRT Line-3 (Airport-Gazipur-Jheelmil) and Mass Rapid Transit (MRT-6) is in progress. (www.rthd.gov.bd)</p> <p>(ii) The Feasibility Study for another 3 MRT and 1 BRT lines are in progress (http://www.dtca.gov.bd)</p> <p>(iii) High occupancy articulated buses and double Decker buses have been added to urban public transport. (http://www.brtc.gov.bd)</p> <p>(iv) Bus Sector Reform project for Dhaka has been initiated.</p> <p>(v) Government approved The Metro Rail Act, 2015 & Bus Rapid Transit Act 2016</p> <p>(vi) Feasibility study for construction of circular rail line around Dhaka city.</p>	
			<p>Examples of important actions that you plan to carry out in next year</p> <p>(i) Partial opening of BRT Line 3 and MRT line-6.</p> <p>(ii) Pilot project for Bus sector reform project for Dhaka city.</p>	

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		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • In the 7th Five Year Plan (2016-2020) Goal 11.2 is addressed by giving emphasis on Public transport (MRT, BRT) and Improve the multimodal transport network with a significant increase in the share of rail and waterways traffic. • Para 114 of New Urban agenda will be addressed. 	
"Shift" Strategy	<p>6 Reduce the urban transport mode share of private motorized vehicles through Transportation Demand Management (TDM) measures, including pricing measures that integrate congestion, safety, and pollution costs, aimed at gradually reducing price distortions that directly or indirectly encourage driving, motorization, and sprawl</p>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> Some progress (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Barriers/Challenges faced in implementation:</p> <ul style="list-style-type: none"> • Impose price is always sensitive • Inadequate Policy measures
		<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <p>(i) Working time of government offices, financial institutions, educational institutions have been staggered to reduce congestion during peak hour in urban areas.</p> <p>(ii) Different off days for markets in urban areas has been introduced.</p> <p>(iii) Freight Vehicles are prohibited during day time in Dhaka city.</p> <p>(iv) Commuter services in road and rail have been enhanced.</p>	

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		<p>Examples of important actions that you plan to carry out in next year</p> <p style="margin-left: 40px;">(i) Parking policy will be in place</p> <p style="margin-left: 40px;">(ii) Phase out small old buses with modern high capacity buses.</p>	
		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p>	
“Shift” Strategy	<p>7 Achieve significant shifts to more sustainable modes of inter-city passenger and goods transport, including priority for high-quality long distance bus, inland water transport, high-speed rail over car and</p>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input type="checkbox"/> Some progress (design – piloting)</p> <p><input checked="" type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Barriers/Challenges faced in implementation:</p> <ul style="list-style-type: none"> • Infrastructural constraints • Inadequate funding

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	air passenger travel, and priority for train and barge freight over truck and air freight by building supporting infrastructure such as dry inland ports	<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <ul style="list-style-type: none"> (i) Government & Private sector intervention in Road based inter-city passenger and goods transport has been enhanced. Intercity bus terminals are in place at the periphery of Dhaka city with connection to city centers. (ii) Intercity train services between Dhaka and important cities has been improved. (iii) Capacity for freight through rail between Dhaka-chittagong has been enhanced. (iv) Government and Private sector has introduced high quality inland water transport service from Dhaka to southern region. Circular water route around Dhaka is in operation. (v) A good number of inland container terminals/depots are in place. (vi) Major National Highway Corridors are being upgraded from 2-lane to 4-lane highways. (vii) Construction of single track Dual Gauge railway line from Dohazari-Ramu-Cox's Bazar and Ramu-Gundum) and Padma Bridge Rail Link Project (Construction of Dhaka-Mawa-Janjira-Bhanga-Jessore rail line) has been initiated. (viii) Freight movement using rail and inland waterway over road has been enhanced (ix) Feasibility study for construction of high speed railway along Dhaka-Chittagong corridor. (x) Design and construction of dedicated railway bridge over Jamuna river.

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		<p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> (i) Number of Commuter train services between Dhaka and surrounding cities will be increased. (ii) Upgrading major National Highway corridors will be continue. (iii) 350 Kilometer New rail Track and Double line Rail track Between Dhaka – Chittagong will be completed. Once completed both Passenger and Freight movement on rail will be easier. (iv) High speed ferry services will be introduced. (v) Introduction of IT based Bus and Freight management system. <p>What importance does this particular EST Goal attach in your country’s on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • SDG 11.2 will be addressed 	
III. Strategies to <u>Improve</u> transport practices and technologies			
“Improve” Strategy	8 Diversify towards more sustainable transport fuels and technologies , including greater market penetration of options such as vehicles operating on electricity generated from renewable sources, hybrid technology, and natural gas	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> • Insufficient supply of CNG • Electric Vehicle (EV) Technology is expensive. • Lack of Research and expertise. • Lack of skill manpower

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		<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <ul style="list-style-type: none"> (i) The National Land Transport Policy, 2004 places emphasis on Compressed Natural Gas (CNG) for improving air quality. (www.rthd.gov.bd). Significant proportion of motor vehicles including public transports now runs on CNG (ii) Waste to fuel (bio fuel) is being examined in urban areas. (iii) Electric powered auto Rickshaws in secondary cities (iv) Hybrid Vehicle has been introduced and Import Tax reduced
		<p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> (i) Encourage Hybrid/Electric private vehicle in Urban Area. (ii) Import of Low sulfur diesel
		<p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • Goal 7.3 (By 2030, double the global rate of improvement in energy efficiency) <i>is addressed</i> by promoting CNG, Hybrid Vehicle and Vehicle with more efficient engine. • Target of Nationally determined contribution (NDC). in line with Paris Climate Agreement will be achieved.

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“Improve” Strategy	9 Set progressive, appropriate, and affordable standards for fuel quality, fuel efficiency, and tailpipe emissions for all vehicle types, including new and in-use vehicles	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> • Lack of monitoring • Lack of public awareness. • Emission checking system is inadequate.
		Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant. <ol style="list-style-type: none"> (i) Road map to reduce the sulfur level in diesel fuels has been set to 500ppm by 2016, 350ppm by 2020 and 50 ppm by 2023. In line with the Road map Bangladesh petroleum corporation (BPC) is importing diesel with sulfur level 500ppm. (ii) Environmental Conservation Rules (ECR) 2017 propose emission standards for new registration is Euro 3 equivalent for the petrol/CNG light vehicles by 2018 and EURO IV 2020. While for heavy duty diesel vehicle EURO II by 2018 and EURO III by 2020. (iii) Department of Environment (DoE) of Bangladesh has set a standard for vehicular exhaust gases according to Bangladesh Environmental Conservation Rules (ECR) 1997, which is strictly maintained by BRTA while registering vehicles. 	
		Examples of important actions that you plan to carry out in next year <ol style="list-style-type: none"> (i) Implementation of proposed Emission Standards for the newly registered vehicles. (ii) Sulfur level in diesel fuel will be reduced to 350 ppm 	

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		What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?	
"Improve" Strategy	10 Establish effective vehicle testing and compliance regimes, including formal vehicle registration systems and appropriate periodic vehicle inspection and maintenance (I/M) requirements, with particular emphasis on commercial vehicles, to enforce progressive emission and safety standards, resulting in older polluting commercial vehicles being gradually phased-out from the vehicle fleet, as well as testing and compliance regimes for vessels	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> • Lack of Technological know-how and lack of trained personnel constraint introduction and operation of automated vehicle inspections. • Lack of awareness
		Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant. <ol style="list-style-type: none"> (i) BRTA establish modern vehicle inspection center (VIC) in Dhaka. (ii) Routine and periodic inspection of vehicles is in place. (iii) Regular inspection of vehicles has resulted in improved maintenance of vehicles. (iv) Bus Rapid Transit (BRT) project proposes scarp of old malfunction buses with modern articulated buses 	
		Examples of important actions that you plan to carry out in next year <ol style="list-style-type: none"> (i) Emission standard will be strictly implemented. (ii) BRTA will upgrade all Vehicle inspection center. (iii) Automation of vehicle inspection will be implemented in 2018. 	

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"Improve" Strategy	11 Adopt Intelligent Transportation Systems (ITS), such as electronic fare and road user charging systems, transport control centres, and real-time user information, when applicable	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> • Lack of infrastructure facilities. • Resistance from existing Operator.
		Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant. <ol style="list-style-type: none"> (i) Electronic fare system (Rapid pass) on the selected bus in the city (http://www.brtc.gov.bd) with the assistance from JICA. (ii) Electronic toll collection system has been installed at major Bridges. (iii) Passenger Information System (PIS) has been introduced at major Railway Station. (iv) Central traffic control station is in place in Dhaka with Dhaka Metropolitan Police (DMP). (v) Bangladesh railway introduced Train tracking and monitoring system (TTMS) (vi) Variable Message Sign (VMS) has been introduced in Dhaka and other major Cities. (vii) To facilitate Electronic fare system , a clearing House at DTCA has been established. 	

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		<p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> (i) Electronic fare system will be expanded to private operators. (ii) MRT line 6 and BRT line -3 will be in operation with full ITS system (Electronic fare system, passenger information system , control center etc.) (iii) ITS based intersections in 4 major Junctions in Dhaka city will be develop for better traffic management. 	
		<p>What importance does this particular EST Goal attach in your country’s on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p>	
“Improve” Strategy	<p>12 Achieve improved freight transport efficiency, including road, rail, air, and water, through policies, programmes, and projects that modernize the freight vehicle technology, implement fleet control</p>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> Some progress (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Barriers/Challenges faced in implementation:</p> <ul style="list-style-type: none"> • Over-reliance on roads for freight transport

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	and management systems, and support better logistics and supply chain management	<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <ul style="list-style-type: none"> (i) A number of container terminals/depots are in operation. (ii) Increase in number of container movement by private and public operators (iii) Emergence of private sector logistics companies (iv) Capital and maintenance dredging at river ports, landing stations and channels are done to ensure navigability. (v) IT based Road Freight management system has been piloted under Bangladesh – Bhutan-India- Nepal (BBIN) motor vehicle agreement. . (vi) Ashuganj River Port has been declared as port of call for International Freight movement. (vii) Patgaon river port connecting Chittagong sea port (viii) Construction of Padma bridge including rail line and Bangabandhu railway bridge will enhance freight movement through railway. <p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> (i) Feasibility study for new rail track connecting sea ports and neighboring countries. (ii) Bangladesh Railway will be connected with international rail networks. (iii) Double track rail between Dhaka- Chittagong will be completed which will enhance freight movement between Chittagong sea port and rest of the country. (iv) A railway container terminal will be established at Dhirashram in Gazipur district near Dhaka city.

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		What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development? <ul style="list-style-type: none"> • SDG 9 will be addressed. • Para 114 of New Urban agenda will be addressed. 	
IV. <u>Cross-cutting</u> strategies			
"Cross-Cutting"	13	Adopt a zero-fatality policy with respect to road, rail, and waterway safety and implement appropriate speed control, traffic calming strategies, strict driver licensing, motor vehicle registration, insurance	Any action had been taken so far? <ul style="list-style-type: none"> <input type="checkbox"/> Not yet <input type="checkbox"/> Some progress (design – piloting) <input checked="" type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box
			Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> • Absence of adequate awareness both for road user and driver about safety issue.

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	requirements, and better post-accident care oriented to significant reductions in accidents and injuries	<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <ul style="list-style-type: none"> (i) 22 October has been declared as “ National safe road day” (ii) Detail study on 300 National Highway identified as vulnerable road . (iii) RTA casualty training has been running for doctors and paramedics. (iv) Road Safety Action Plan (2016-2020) is in place (v) Axle Load Control Station Operation Policy in place. (vi) Development of safety template for national highway for RHD. (vii) 752 intersections on national and regional highway is being studied to identify various hazards and counter measured has been proposed. (viii) Training of Drivers for safe driving is being carried out by BRTA, DTCA and NGO’s.
		<p>Examples of important actions that you plan to carry out in next year:</p> <ul style="list-style-type: none"> (i) Road operational unit on SASEC corridor. (ii) An updated Road Transport Act will be in place by 2018. (iii) Countermeasures to improve black spots on National Highways will be implemented.
		<p>What importance does this particular EST Goal attach in your country’s on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • In line with Goal 3.6 Government has taken appropriate steps to halve the number of deaths and injuries from road traffic accidents • Para 113 of New Urban agenda will be addressed.

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“Cross-Cutting”	14	Promote monitoring of the health impacts from transport emissions and noise, especially with regard to incidences of asthma, other pulmonary diseases, and heart disease in major cities, assess the economic impacts of air pollution and noise,	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> • Non-compliance of laws by transport owners and workers. • Level of Awareness of road users is low • Inadequate manpower of BRTA to check the vehicular emission

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	and devise mitigation strategies, especially aiding sensitive populations near high traffic concentrations	<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <ul style="list-style-type: none"> (i) Under CASE project air qualities of different major cities (Dhaka, Chittagong, Rajshahi, khulna, Barisal, Sylhet, Gazipur, Narayangang) are monitored by 11 Continuous Air Monitoring stations (CAMS). (ii) Satellite monitoring of Particulate matter also carried out in different places of Dhaka. (iii) DoE has launched CAMS (Clean Air Monitoring System) in Dhaka, Chittagong & Khulna to monitor vehicles' noise and DoE also checks tailpipe emissions along with BRTA. (iv) Dhaka City Corporation-North and South), DTCA and DoE are working under CASE (Clean Air & Sustainable Environment) project for a 5 years duration which was started in July 2009 to strengthen institutional and regulatory framework for air quality management to ensure clean environment in major cities (v) DoE has set up a standard of noise created by vehicles in Bangladesh (vi) Modern roadside inspection vehicles and instruments have been running for past few years.
		<p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> (i) More modern vehicle inspection centers will be established. (ii) Regular vehicle emission checking by BRTA

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		What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?		
"Cross-Cutting"	15	Establish country-specific, progressive, health-based, cost-effective, and enforceable air quality and noise standards, also taking into account the WHO guidelines, and mandate monitoring and reporting in order to reduce the occurrence of days in which pollutant levels of particulate matter, nitrogen oxides, sulphur oxides, carbon monoxide, and ground-level ozone exceed the national standards or zones where noise levels exceed the national standards, especially with regard to environments near high traffic concentrations	Any action had been taken so far? <input type="checkbox"/> Not yet <input type="checkbox"/> Some progress (design – piloting) <input checked="" type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: Unwillingness of transport owners to introduce low-carbon and energy efficient vehicles.
			Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant. <ul style="list-style-type: none"> (i) Continuous Air Monitoring Stations (CAMS) has been established to monitor criteria pollutants in major cities of Bangladesh. (ii) Under the CASE project, air quality is being reviewed and formulation of a new up to date air quality standard is in final stage. (iii) Revision of existing Vehicle Emission Standard prepared in 2005 which only allows the EURO 3 engines onward. (iv) DoE has set up air quality and noise standard which being enforced by BRTA. URLs: http://www.case-moef.gov.bd/ ; http://www.dtcb.gov.bd/ ; http://www.dhakacity.org/ ; http://www.rthd.gov.bd/ ; www.rajukdhaka.gov.bd	

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		<p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> (i) Revised air quality standard will be adopted. (ii) Implementation of BRT Line-3 and MRT Line-6 will contribute to reduction of CO₂. <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • Target 3.9 of SDG 3 will be addressed. 	
“Cross-Cutting” Strategy	<p>16 Implement sustainable low-carbon transport initiatives to mitigate the causes of global climate change and to fortify national energy security, and to report the inventory of all greenhouse gases emitted from the transport sector in the National Communication to the UNFCCC</p>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> Some progress (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Barriers/Challenges faced in implementation:</p> <ul style="list-style-type: none"> • Low carbon technologies are expensive.
		<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <ul style="list-style-type: none"> (i) Bangladesh Climate Change Strategy and Action Plan 2009 is in place (ii) Bangladesh National Adaptation Program of Action (NAPA) is in place (iii) Initiatives for replacing diesel run buses/minibuses by CNG driven vehicles have been taken in 2008 and the process is going on. (iv) Electric Auto Rickshaw in Secondary cities. 	

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		<p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> (i) Import EURO-IV standard buses in Urban areas. (ii) High occupancy and energy efficient vehicles (articulated and double decker buses) will be introduced. (iii) encourage Hybrid /Electric Vehicle in Urban Area. 	
		<p>What importance does this particular EST Goal attach in your country’s on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • SDG 7 & 13 will be addressed. • Target of Nationally determined contribution (NDC). in line with Paris Climate Agreement will be achieved. 	
“Cross-Cutting”	<p>17 Adopt social equity as a planning and design criteria in the development and implementation of transport initiatives, leading to improved quality, safety and security for all and especially for women, universal</p>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> Some progress (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Barriers/Challenges faced in implementation:</p> <ul style="list-style-type: none"> • Funding constraint

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	<p>accessibility of streets and public transport systems for persons with disabilities and elderly, affordability of transport systems for low-income groups, and up-gradation, modernization and integration of intermediate public transport</p>	<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <ul style="list-style-type: none"> (i) The National Integrated Multimodal Transport Policy (NIMTP) addresses the issues of improved quality, safety and security for all, especially for women, physically challenged people, senior citizens. (ii) Priority seats have been reserved in public transportation. (iii) Transport services have been ensured for low-income groups. (iv) Escalator have been installed at foot over bridges for easy crossing of elderly ,women (v) Special bus services for women and students have been introduced. <hr/> <p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> • Implementation of Dhaka Structure Plan. • Implementation of the RSTP. • Land use and Transport planning at local level. <hr/> <p>What importance does this particular EST Goal attach in your country’s on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p> <ul style="list-style-type: none"> • In the 7th Five Year Plan (2016-2020) Goal 11 is addressed by giving emphasis by ensuring better utilization of land resources and mitigating increased demand for housing and urban services.

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“Cross-Cutting”	18 Encourage innovative financing mechanisms for sustainable transport infrastructure and operations through measures, such as parking levies, fuel pricing, time-of-day automated road user charging, and public-private	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> • Lack of experience in PPP Projects • Materialization of Road Fund takes time.

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	partnerships such as land value capture, including consideration of carbon markets, wherever feasible	<p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <ul style="list-style-type: none"> (i) Public Private Partnership (PPP) office has been created under Prime Minister’s Office (www.pppo.gov.bd). (ii) Bangladesh Public Private Partnership Law 2015 is in place (www.pppo.gov.bd). (iii) Policy and Strategy for Public-Private Partnership (PPP), 2010 is in place (www.pppo.gov.bd). (iv) Toll Policy 2014 is in place (www.rthd.gov.bd). Road user charges (toll) is in place for bridges and few selected National Highways. (v) Parking policy has been drafted (vi) The implementation of Dhaka-Elevated Expressway is in progress on PPP basis. (vii) The following projects are in the process on implementation on PPP basis: (a) Dhaka Bypass, (b) Dhaka –Ausulia Expressway, (c) Rampura-Amulia-Demra Access Controlled Road, (d) Dhaka-Chittagong Expressway (viii) Government to Government (G2G) initiatives introduced. A Policy for Implementing PPP Projects through Government to Government (G2G) Partnership, 2017
		<p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> (i) More PPP and G2G transport infrastructure project. (ii) Toll for roads/flyover built under PPP will be introduced.

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		What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?	
“Cross-Cutting” Strategy	19 Encourage widespread distribution of information and awareness on sustainable transport to all levels of government and to the public through outreach, promotional campaigns, timely reporting of monitored indicators, and participatory processes	Any action had been taken so far? <input type="checkbox"/> Not yet <input type="checkbox"/> Some progress (design – piloting) <input checked="" type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> • Inadequate Fund. • Absence of Public relation officer in organization level
		Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant. <ol style="list-style-type: none"> (i) All acts, policies, plans, guidelines are now available in relevant websites. (ii) Policies are prepared through consultative process with major stakeholders. (iii) Awareness programs through training, campaigns, radio and TV promotional advertisements etc. (iv) Promotional campaigns (branding, community awareness etc.) has been introduced in all Urban transport project (v) Emission and Road Safety situation is being monitored and circulated regularly. (http://case.doe.gov.bd/, http://brta.gov.bd/) 	

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		<p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> (i) Promotional campaigns will be made mandatory for all infrastructure projects. (ii) Awareness programs in academic curriculum will be in place. (iii) Awareness program on Road safety. <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p>	
"Cross-Cutting" Strategy	20 Develop dedicated and funded institutions that address sustainable transport-land use policies and implementation, including research and development on environmentally-sustainable transport, and promote good governance through implementation of environmental impact assessments for major transport projects	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> • Inadequate manpower in relevant institution. • Lack of Funding.
		Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant. <ul style="list-style-type: none"> (i) Dhaka Transport Coordination Authority (DTCA) has been created to act as a unitary body responsible for Land use and Transport planning. (ii) Dhaka Mass Transport Company(DMTC) and Bus Rapid Transport (BRT) company has been created for operation and maintenance of MRT and BRT 	

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		<p>Examples of important actions that you plan to carry out in next year</p> <ul style="list-style-type: none"> (i) Dhaka Transport Coordination Authority (DTCA) will be fully functional. (ii) Initiatives to create dedicated institution for Land use and Transport in other major cities (Chittagong, Rajshahi, Khulna, sylhet)
		<p>What importance does this particular EST Goal attach in your country’s on-going efforts in achieving (a) the Sustainable Development Goals (SDGs), (b) New Urban Agenda, and (c) Paris Climate Agreement?</p>