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Economic Commission for Europe

Inland Transport Committee

Working Party on Transport Trends and Economics

Group of Experts on Benchmarking Transport Infrastructure Construction Costs

Eleventh session

Geneva, 8 and 9 April 2021

Item 4 of the provisional agenda

Collection and analysis of benchmarking data

Draft questionnaire on road transport infrastructure maintenance and operation costs

Submitted by the Government of Turkey

Background

The Inland Transport Committee (ITC) at its eighty-third session in February 2021 extended the mandate of the Group of Experts on Benchmarking of Transport Infrastructure Construction Costs (GE.4) for an additional year until 2022, with the purpose to revamp its data collection efforts across all modes which would result in a more data rich final report. At the thirty-third session of the Working Party on Transport Trends and Economics, in September 2020, the Government of Turkey had proposed to utilise such a 1-year extension, to prepare an additional benchmarking analysis of transport infrastructure maintenance and operation costs. In follow-up to this proposal, it has prepared a preliminary questionnaire focusing on the road transport sector as contained in this document. The Group is invited to review, finalise and adopt this draft questionnaire enabling a timely launch of data collection efforts.

Annex

Routine Maintenance Costs and Expenditures

Routine maintenance, which comprises small-scale works conducted regularly, aims “to ensure the daily throughput and safety of existing roads in the short-run and to prevent premature deterioration of the roads” (PIARC 1994).

COUNTRY NAME

Explanation 2

Annual Labour Cost	It contains all labour costs as salary, overtime, bonus, and side rights.
Annual Material Cost	It contains all materials costs such as fuel oil, bitumen, spare parts, stationery, fuel expense, salt, chemicals, construction products, etc. which expend on road maintenance services
Invoiced expenses	It contains all utility invoices such as road lighting, phone, electricity, water, mobile phone, internet, natural gas and another invoices which is on road maintenance services.
Operating expenses of machines and mechanisms	It contains depreciation deductions for full restoration, costs of replacing wearing parts and attachments, the cost of relocating machines from one maintenance services to another one including the installation of machines with commissioning, dismantling, transportation with loading and unloading operations.
Bid Expenditures	All biddings on road maintenance services such as traffic services, traffic lights, installing guardrails, winter maintenance, road repairs etc.

Primary and Secondary Roads-1

PRICES
YEAR:-----

Routine Maintenance Expenditures of Primary and Secondary Roads

Unit:
US\$

Total Annually Maintained Road Length (Km)	Force Account Expenditures	Bid Expenditures	Total
	Annual Labour Cost	Annual Material Cost	Invoiced Expenses
			Operating expenses of machines and mechanism
			Total

Primary and Secondary Roads-2

PRICES YEAR:-----

PRICES YEAR:-----

Routine Maintenance Unit Costs of Primary and Secondary Roads

Unit:
US\$/LaneXkm.

Traffic Safety Unit Cost	Road Maintenance Unit Cost	Winter Maintenance Unit Cost	Total Unit Cost
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Motorways-1

PRICES
YEAR:-----

Routine Maintenance Expenditures of Motorways

Unit:
US\$

Total Annually Maintained Road Length (Km)	Force Account Expenditures				Total	Bid Total Expenditures	Total
	Annual Labour Cost	Annual Material Cost	Invoice d Expenses	Operating expenses of machines and mechanism			

Motorways-2

PRICES YEAR:-----

Routine Maintenance Unit Costs of Motorways

Unit:
US\$/LaneXkm

Traffic Safety Unit Cost	Road Maintenance Unit Cost	Winter Maintenance Unit Cost	Total Maintenance Unit Cost	Toll Collection Unit Cost	Total Unit Cost
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