

# TECHNICAL REPORT (DESCRIPTIVE PROJECT)

**Performance-based maintenance, Lekli Bridge-Këlcyrë-Përmet+ Valare-Erind Cajup+ K/Dhuvjan Libohovë  
63.2 km**

## **1. Scope of services to be carried out**

The services to be provided include all the activities, physical and others, which should be carried out by their compliance with the levels of service, and the criterion set for their performance fulfillment, or any other requirement. In particular, they include managerial duties and physical works concerning road-related assets and items:

- Asphalt
- Shoulders
- Road signs and supply of road safety devices
- Drainage facilities
- Vegetation control
- Escarpments (excavations and shoulders)
- Art works
- Traffic management
- Soil accumulation
- Snow removal (if winter maintenance is available)

The services required by road maintenance are classified in:

2. Rehabilitation/Periodic Works in the form of quantity of a ceiling amount, while indicating the quantities of measurable works to be carried out in order for the road to meet its performance standards.
3. Routine Maintenance Services in the form of quantity expressed in a monthly ceiling amount (this will be a monthly quantity applicable throughout the contract duration, expressed in price per km for each month multiplied by road length and duration of services);
4. Emergency Works in the form of a traditional bill of quantities.

The main functions of maintenance bases in general should be as follows:

1. Supervision of road segment/section in certain periods by levels of service
2. Control of traffic data for this segment
3. Observation of meteorological factors
4. First aid in case of accidents (related to road and traffic elements)
5. Maintenance on desired road layers conditions
6. Maintenance of parking spaces, service, road signs, lighting systems, and future signaling and telecommunication.
7. Repairs and reconstruction after road accidents
8. Repairs and reconstruction after natural disasters
9. Cleaning operations of drains, culverts and other facilities related to the removal of water from road surface.
10. All the operations for the cleaning and maintenance of:
  - road signs, safety devices (guardrails, parapets) and lighting system
  - local repair of sidewalk damages
  - vegetation protection
  - winter activities for the removal of snow and ice.

*Winter maintenance works include:*

1. Preliminary works before winter
2. Organization of materials storage locations
3. Protective measures for snow, ice, snow piles and avalanches
4. Removal of snow from highway carriageway and communication signs and signals
5. Marking of carriageway sides
6. Ensuring carriageway drainage system operation
7. Removal of vehicles from the road
8. Installation of specific communication signals in case of special traffic regime for road closures
9. Ongoing public information on road conditions and traffic flow

**5. Segments to be covered by the contract:**

Road No.	No.	Road names	Road type	Total length (km)	Width (m)
SH 75	1	Lekli Bridge-Këlcyrë		17.9	5
SH 75	2	Këlcyrë-Përmet		18	5
N/A	3	Valare-Erind-Cajup		19.2	4.5
SH 96	4	K/Dhuvjan-Libohovë		8.1	5
<b>CONTRACT SUM</b>				<b>62.3</b>	

*Note:*

**6. Specific condition**

For each case, the segments to be included in investment (reconstruction) or other projects of the Albanian Road Authority will be reduced from the contract.

**7. Road signs and safety**

The maintenance of road signs and safety (guardrails) will be focused on repair and upgrade of the existing one. The road axis is problematic with regards to road safety aspect, because the road signs in the segment from Dukaj village to Vlora border is almost inexistent.

**8. Description of the area where the road is located**

Lekli Bridge-Këlcyrë-Përmet 35.9 km

Coordinates:

Start: 40.257809, 20.055411 (Intersection with Sh 4)

End: 40.234448, 20.358000 (Përmet)

Pursuant to DCM No. 405, dated 08.01.1996, this road axis has been added to national roads inventory.

Its reconstruction by the Albanian Road Authority through an asphalt paving project divided into three lots ended in 2016.

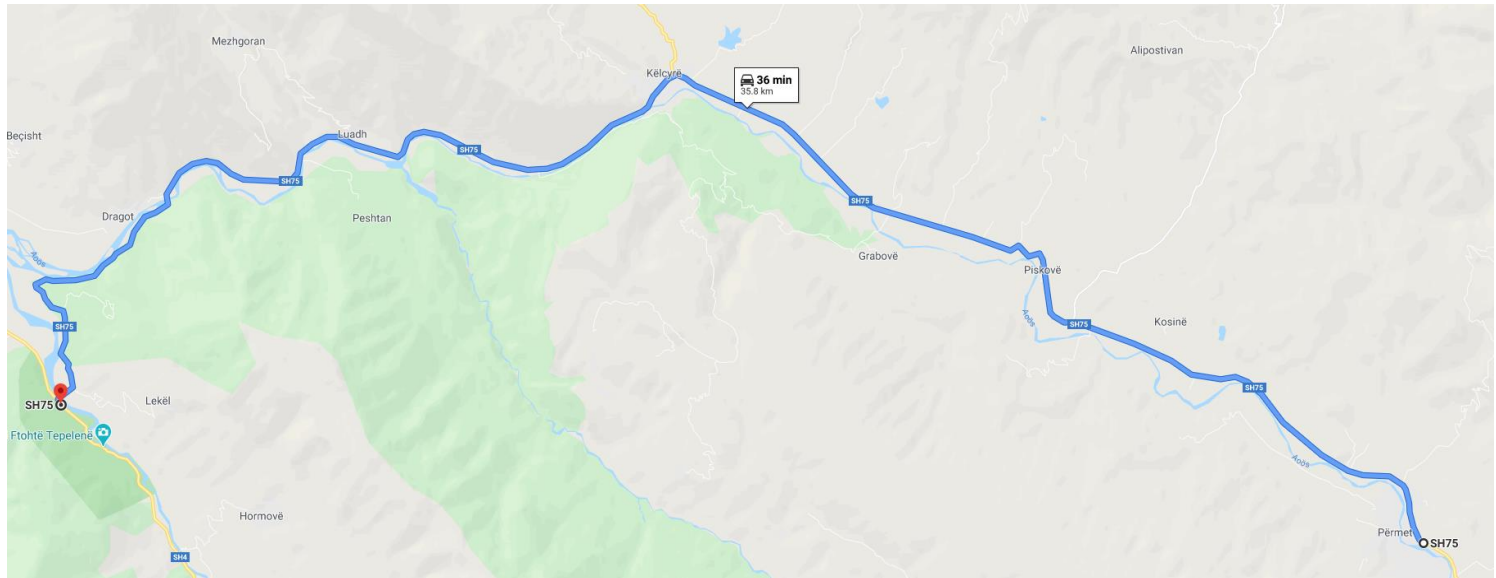
This road axis is important because it connects the national road axis Sh4 to the road axis Sh75.

During winter time it presents some issues, mainly related to landslides and frost in Dragoti area.

The ditches and vegetation are an added problem as they need regular cleaning, since ditches are formed of soil and they get clogged by alluvium from side slopes during rainfalls.

Culverts conditions are good but they need regular cleaning.

The road signs conditions are good, but there is a need for the replacement of some sign boards and marking lines damaged by the area residents and precipitation.



➤ Valare-Erind-Cajup 19.2 km

Start coordinates: 40.126586, 20.135972

End coordinates: 40.184974, 20.182797

Pursuant to DCM No. 184, dated 13.03.2012, this road axis has been added to national roads inventory.

Its reconstruction by the Albanian Development Fund ended in 2016.

This road axis is important because it connects the city of Gjirokastrë to Cajupi tourist area and Zagoria area.

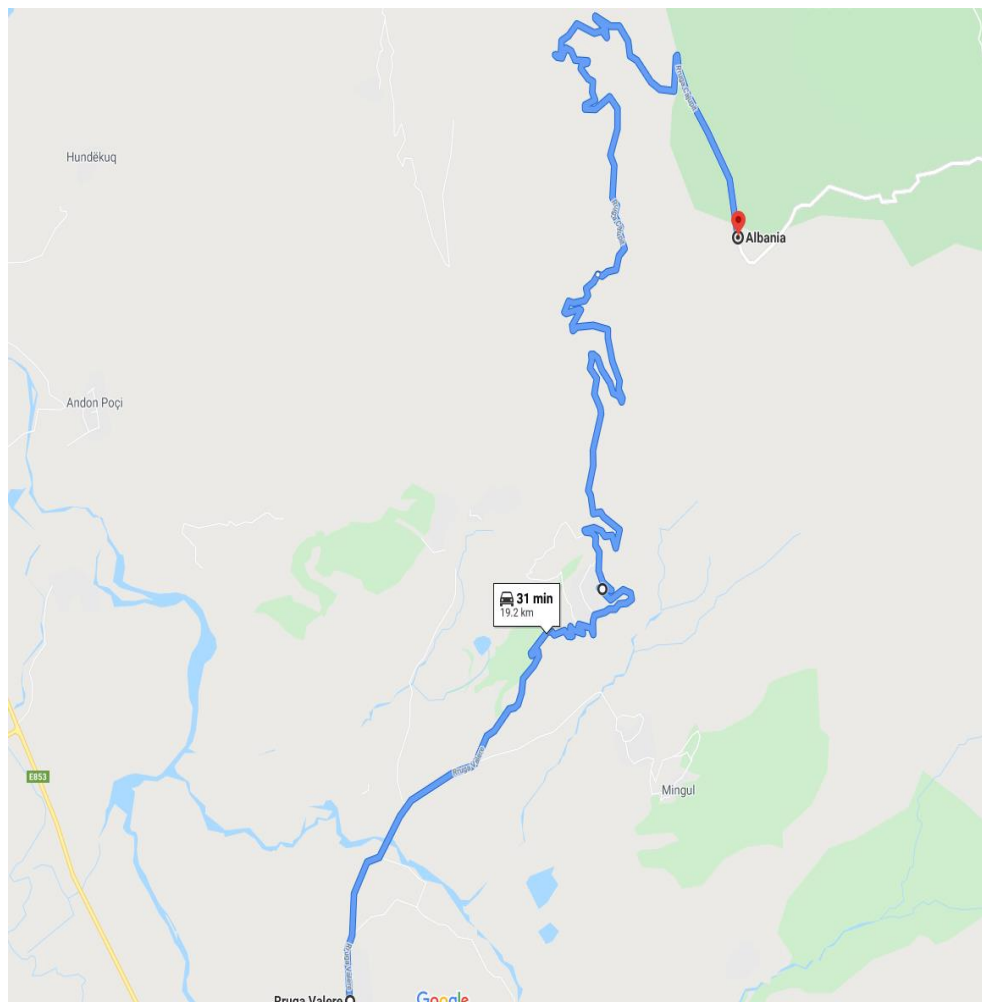
The conditions of road layers and sublayers are good, but there is a need for the use of bitumen components during the repair of some segments where asphalt has been subject to erosion.

The side ditches and gutters need maintenance as the area is hilly and mountainous, and since the terrain is rough there is continuous alluvial slide; in addition, road signs are needed in km 13 and onward because of the risk for stone slides, which compromises road safety.

The conditions of road signs are good, except for Erind area where road signs are damaged by the residents of this area.

This road axis faces some problems during winter time and winter maintenance is needed as the area altitude reaches up to 1300m above the sea level.

This road segment is subject to massive slide of road track in km 9, prog, and requires a geological and engineering project on measures to be taken. The maintenance contractor should monitor this segment.



➤ K/Dhuvjan-Libohovë 8.1 km

Start coordinates: 39.997423, 20.215959

End coordinates: 40.033498, 20.262298

Pursuant to DCM No. 405, dated 08.01.1996, this road axis has been added to national roads inventory.

The K/Dhuvjan –Libohove road axis connects the city of Libohovë to road axis SH4.

The conditions of asphalt layers are good, but maintenance is needed. The conditions of road signs are good, but maintenance is needed.

