**Road Expansion/Renovation**

**Basic Information:**

1. Ministry name: 2. Project Name:

3. Road location: □Urban □Rural □Both

4. Please select the Governorate, and write down District, Sub-district and the Village of the new project location:

Governorate: □Erbil □ Sulemani □ Dohuk □ Garmian □Rapareen □ Region

District:

5. GPS Coordinates (*if known*):

Point A (Start) Latitude: Longitude: □ Not Known

Point B (Finish) Latitude: Longitude: □ Not Known

6. What type of project is this?

□ Expansion: Widening □ Expansion: Lengthening □ Renovation

7. What type of road is this?

□Main/Primary road □ Secondary Road □ Other: \_\_\_\_\_\_\_\_\_\_

8. What type of road will this be after expansion/renovation *(if different)*?

□Main/Primary road □ Secondary Road □ Other: \_\_\_\_\_\_\_\_\_\_

Justification of Need:

9. What is the main reason this road expansion/renovation is needed?

□ Demand: will reduce congestion on the road

□ Demand: will increase pedestrian safety by adding a sidewalk

□ Maintenance: will fix potholes, erosion, cracked pavement etc.

□Will ensure provision of increased or different hours of operation

□ Safety: will help reduce the number of accidents

□ Other:\_\_\_\_\_\_\_\_\_\_

10. Current number of fatal and non-fatal accidents:

Fatal accidents: Non-Fatal accidents:

11. Expected number of reductions in fatal and non-fatal accidents after the road expansion/renovation:

Fatal accidents: Non-Fatal accidents:

12. What is the distance (Km) from the nearest road that offers the same or similar transportation benefits?

13. What is the name of the nearest road?

14. What type of road is the nearest road?

□Main/Primary road □ Secondary Road □ Other: \_\_\_\_\_\_\_\_\_\_

15. What is the main material the nearest road made out of?

□Concrete □Asphalt □Double Dressing □Gravel □Dirt

16. Catchment - How much traffic does the nearest road currently support (average number of vehicles per day)?

## Staffing, Capacity, Equipment:

Catchment:

17. How much traffic per year does this road currently support (average number of vehicles per day)?

18. How much traffic per year will this road support after expansion/renovation (average number of vehicles per day)?

19. What is the main material this road is constructed with? (*Check all that apply.*)

□Concrete □Asphalt □Double dressing □Gravel □Dirt

20. What main material will this road be made of with the expansion/renovation? (*Check all that apply.*)

□Concrete □Asphalt □Double dressing □Gravel □Dirt

21. Please check all of the features this road currently has:

□Tunnel □Bridge □Culvert □Sidewalk □Reservoir □Other: \_\_\_\_\_\_

22. Please check all of the features this expanded/renovated road will have (*if different*):

□Tunnel □Bridge □Culvert □Sidewalk □Reservoir □Other: \_\_\_\_\_\_

23. How many employees does this road employ annually (for example for parking meters, construction for maintenance of the road, manning security check points)?

24. How many employees will this road employ annually after expansion/renovation?

25. Please describe the expected activities related to the maintenance and operation of the road after expansion/renovation.

### Current Transportation Commute Conditions

26. \*Please order the villages/cities or other locations from beginning to end of the current road to going East to West or North to South accordingly.

\*\*Please identify up to 10 villages/cities or key stopping locations.

\*\*\* Please provide the current time to the next village/city and the expected new time to the next village based on road expansion/renovation, as well as the current number and new number of vehicles using the road.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Village/City Name**  1.  2.  3.  4.  5.  6.  7.  8.  9.  10. | **Current Time to Next Village/City (Minutes)**  1.  2.  3.  4.  5.  6.  7.  8.  9.  10. | **Expected Time to Next Village/City (Minutes)**  1.  2.  3.  4.  5.  6.  7.  8.  9.  10. | **Current Number of Vehicles per day**  1.  2.  3.  4.  5.  6.  7.  8.  9.  10. | **Expected Number of Vehicles per Day**  1.  2.  3.  4.  5.  6.  7.  8.  9.  10 |

**Land**

27. Current road dimensions

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Road Length (Kilometers) |  | Sidewalk length (Kilometers) |  | Reservoir Length (Kilometers) |  |
| Road width side 1 (Meters) |  | Sidewalk width side 1 (Meters) |  | Reservoir Width  (Meters) |  |
| Road width side 2 (Meters) |  | Sidewalk width side 2 (Meters) |  |  | |

Road dimensions after expansion/renovation

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Road Length (Kilometers) |  | Sidewalk length (Kilometers) |  | Reservoir Length (Kilometers) |  |
| Road width side 1 (Meters) |  | Sidewalk width side 1 (Meters) |  | Reservoir Width  (Meters) |  |
| Road width side 2 (Meters) |  | Sidewalk width side 2 (Meters) |  |  | |

28. Have all the necessary permits for use of land been acquired? □Yes □ No

29. Please explain any pending procedures to obtain land access and land permits:

30. Total land for the road expansion/renovation in hectares to be purchased:

31. Please identify roads that will be used as alternate routes during construction:

32. Expected amount of traffic re-routed during construction (number of vehicles per day):

33. Expected average change in vehicle commute time (minutes) per vehicle due to road rerouting:

34. Will the alternative routes experience congestion? □Yes □No If **yes** please explain:

## Costs

35. Please attach the Bill of Quantities (BoQ) to this form.

To calculate project costs, the BoQ should include a detailed list of materials, equipment, and labor needed for the road expansion/renovation construction. For each category, this list should include for each item: unit, quantity, cost per unit, and total cost. *Eg. square meters of land, 400 m², 3000 IQD, 1,200,000 IQD.*

From the BoQ, summarize the costs in the following categories:

36. Total estimated Project Cost:

37. Total cost of maintenance (*typical yearly amount expected after the contractors have completed their work*):