



Rehabilitation of Road from village Greli to Sapara Monastery (Akhaltsikhe Municipality)

Sub-Project Environmental and Social Screening and Environmental Management Plan

**WORLD BANK FINANCED
THIRD REGIONAL DEVELOPMENT PROJECT**

September, 2015

Sub-Project description

The sub-project (SP) will rehabilitate an access road to Sapara Monastic Complex located in historical Meskheti, Akhaltsikhe region, about ten km south-east from city Akhalitsikhe, in the mountains. The Sapara Monastic Complex is subordinate to Akhaltsikhe and Tao-Klarjeti Eparchies. It is an effective complex.

The ensemble of Sapara Monastery consists of a group of historical monuments of different epochs. There are nine churches with the St. Saba Church being the central one. The oldest building of the Sapara ensemble is the Church dedicated to the Dormition of the Virgin, dated by the 10th century. Later, the St. Saba Church was built next to it at the brink of the XIII and XIV centuries. The belfry was built at the west side of the church at the same time. At the entrance, on the edge of the cliff, there is a small St. Stephan chapel, a single-nave building with no cupola. To the left, a cliff cape forms a wide platform. Here is located St. Saba's Church with other small churches surrounding it: the Dormition Church from the south, a small St. Dimitri chapel in the east; a small St. George Church and the St. John Chrysostom chapel in north-east. The Monastery complex also includes residential houses, palace, towers, monastic cells and different kinds of facilities. These premises are located at different heights of the mountain slope. The Sapara Monastery, once the residence of the grandees of Samtskhe, was a real fortress at one time. To the west, on top the Monastery, there are remnants of the old fortress survived.

The road, rehabilitation of which is planned within the SP, starts from village Greli, runs along agricultural holdings (croplands), bushed and forested slopes, and ends at the entrance of the Sapara Monastery. Total length of the road is 7222 m.

Major part of the road is rutted due to the runoff of surface waters on the pavement, these ruts are filled up with natural rubble. A complete new pavement is necessary to build all along the road section. Ditches are to be arranged along the full length of the road, which will protect the pavement from exposure to the surface water runoff.

The SP includes the works as follows:

- Constructing the gravel and asphalt-cement layers of the road pavement (L=7.2 km; width=4,5-5 m);
- Rehabilitating and installing storm water reinforced-concrete ditches 60X50 cm (702 m) and concrete pipes (D=1 m, 11 units);
- Arranging of the wall with gabion boxes (6m);
- Installing road furniture and marking: metal profiled road guards - 3,565 m; special profile concrete parapets - 22 units; road posts – 370 units; road signs – 61 units.

Environmental Screening and Classification of SP

(A) IMPACT IDENTIFICATION

<p>Has the subproject a tangible impact on the environment?</p>	<p>The SP has a modest negative environmental impact and is expected to have tangible long term positive impact on the social environment.</p>
<p>What are the significant beneficial and adverse environmental effects of the subproject?</p>	<p>There is no risk of impacts on historical value of the Sapara monastery because all civil works within the SP will be implemented outside of the Cultural Heritage (CH) site. However, as the SP is to be implemented near the CH site, there is higher than average likelihood of encountering chance-finds during excavation works.</p> <p>Road to be rehabilitated starts on village Grely territory within which two residential houses with yards are adjacent to the road. There are no other settlements along the road.</p> <p>The expected negative environmental and social impacts are likely to be short term and typical to medium scale rehabilitation works in modified landscape: noise, dust, vibration, and emissions from the operation of construction machinery; generation of construction waste; disruption of traffic and pedestrian access.</p> <p>As a result of civil works, approximately 10 400 m² excess material (cut soil) and 1 100 m³ organic waste (due to the cut bushes) will be produced.</p> <p>Distance from the SP site to the nearest landfill is 5.3km. Transportation to the landfill is possible by passing through village Grely, Rustaveli street in the town of Akhaltsikhe, and village Chacharaki adjacent territory. Intense movement of heavy machinery will cause nuisance for local population and tourists.</p> <p>5 000m³ sand-gravel and sand road shingle, also 40 000m³ concrete and asphalt is required for SP implementation. Transportation of these materials also will cause nuisance for local population and tourists.</p>

	<p>For rehabilitation works, utilization of liquid hazardous material (bitumen) in the amount exceeding 33 ton is required. The bitumen will not be temporarily placed on the territory of the construction camp. In case of demand, bitumen will be supplied with special techniques and it will be used immediately after supply.</p> <p>Dismantling of damaged asbestos pipe with length of 4 m is planned, which requires special handling.</p> <p>After SP implementation, increased tourist flows may have indirect negative environmental impacts: waste generation, vandalism, etc.</p> <p>Rehabilitation of access road to Sapara monastery will improve touristic attraction. The increased tourist flows will have positive social impact through improvement of employment opportunities. SP implementation will create opportunity for new jobs for local population and increase their incomes.</p> <p>After SP implementation road operational and maintenance costs will be reduced; Safety for traffic flow movement will increased; emission of harmful gasses and fuel consumption will be reduced.</p>
<p>May the subproject have any significant impact on the local communities and other affected people?</p>	<p>No new land take is required.</p> <p>The long term social impact will be beneficial (growth of tourist flow, attraction of private sector investment in tourism infrastructure (hotels, restaurants, shopping, entertainment, etc.).</p>

(B) MITIGATION MEASURES

<p>Were there any alternatives to the sub-project design considered?</p>	<p>Given that the SP envisages rehabilitation of existing road, alternatives were not considered.</p>
<p>What types of mitigation measures are proposed?</p>	<p>The expected negative impacts of the construction phase can be easily mitigated by demarcation of the construction site, traffic management, good maintenance of the construction machinery, observance of the established working hours, and well organized disposal of waste to the formally agreed sites.</p> <p>Asbestos pipe will be demounted and disposed following to the procedures described in the EMP. Demolition works and proper disposal of the asbestos pipe will be strictly controlled by MDF. Training will be conducted for all personnel of the contractor who will have contact with hazardous materials and waste (especially the damaged asbestos pipe).</p> <p>Instead of transporting excess material through several settlements to the landfill, it may be disposed in an alternative location approved by local (municipal) governing bodies in written.</p> <p>In case chance find is encountered in the course of earth works, the contractor must immediately stop any physical activity on site and informs the MDF. The MDF promptly notifies the Ministry of Culture and Monument Protection, which takes over responsibility for the following course of action. Works may resume only upon receipt of written permission from the Ministry of Culture and Monument Protection.</p> <p>In operation phase proper management of generated solid waste and waste water should be ensured to reduce impact on the environment.</p>
<p>What lessons from the previous similar subprojects have been incorporated into the project design?</p>	<p>MDF have wide experience of implementation of medium and large scale road and streets rehabilitation subprojects financed by various donor organizations. Based on lessons learned from previous similar</p>

	projects, design envisages not only rehabilitation of road pavement but also installation of storm water ditches which will backing further maintenance of the street cover.
Have concerned communities been involved and have their interests and knowledge been adequately taken into consideration in subproject preparation?	SP specific EMP will be made available for village Greli community population and will be discussed in a consultation meeting prior to the commencement of works.

(C) CATEGORIZATION AND CONCLUSION

Conclusion of the environmental screening:

- 1. Subproject is declined
- 2. Subproject is accepted

Subproject preparation requires:

- 1. Completion of the Environmental Management Checklist For Small Construction and Rehabilitation Activities
- 2. Environmental Review, including development of Environmental Management Plan

Social Screening and Cultural Resource Screening of SP

Social safeguards screening information		Yes	No
1	Is the information related to the affiliation, ownership and land use status of the sub-project site available and verifiable? (The screening cannot be completed until this is available)	X	
2	Will the sub-project reduce people's access to their economic resources, such as land, pasture, water, public services, sites of common public use or other resources that they depend on?		X
3	Will the sub-project result in resettlement of individuals or families or require the acquisition of land (public or private, temporarily or permanently) for its development?		X
4	Will the project result in the temporary or permanent loss of crops, fruit trees and household infra-structure (such as ancillary facilities, fence, canal, granaries, outside toilets and kitchens, etc)?		X
If answer to any above question (except question 1) is "Yes", then OP/BP 4.12 Involuntary Resettlement is applicable and mitigation measures should follow this OP/BP 4.12 and the Resettlement Policy Framework			
Cultural resources safeguard screening information		Yes	No
5	Will the project require excavation near any historical, archaeological or cultural heritage site?		X
If answer to question 5 is "Yes", then OP/BP 4.11 Physical Cultural Resources is applicable and possible chance finds must be handled in accordance with OP/BP and relevant procedures provided in the Environmental and Social Management Framework .			

Environmental Management Plan

PART A: GENERAL PROJECT AND SITE INFORMATION

INSTITUTIONAL AND ADMINISTRATIVE			
Country	Georgia		
Project title	Third Regional Development Project (RDP 3)		
Sub-Project title	Road from village GrelI to Sapara Monastery (Akhaltzikhe Municipality) Rehabilitation		
Scope of site-specific activity	<p>The sub-project (SP) will rehabilitate the access road to Sapara Monastic Complex located in historical Meskheti, Akhaltsikhe region, about ten km south-east from city Akhalitsikhe. Total length of the road to be rehabilitated is 7222 m.</p> <p>The SP includes the works as follows:</p> <ul style="list-style-type: none"> • Constructing the gravel and asphalt-cement layers of the road pavement (L=7.2 km; width=4,5-5 m); • Rehabilitating and installing storm water reinforced-concrete ditches 60X50 cm (702 m) and concrete pipes (D=1 m, 11 units); • Arranging of the walls with gabion boxes (6 m); • Installing of road furniture and marking: metal profiled road guards -3,565 m; special profile concrete parapets -22 units; road posts – 370 units; road signs – 149 units. 		
Institutional arrangements (WB)	Task Team Leader: Zaruhi Tokhmakhian, Co-Task Team Leader: Ahmed Eiweida	Safeguards Specialist: Darejan Kapanadze	
Implementation arrangements (Borrower)	Implementing entity: Municipal Development Fund of Georgia	Works supervisor: (tbd)	Works contractor: (tbd)
SITE DESCRIPTION			
Name of institution whose premises are to be rehabilitated	The Road - Akhaltsikhe-GrelI-Sapara Monastery - belongs to the national roads, managed by the Department of Roads of Georgia		
Address and site location of institution whose premises are to be rehabilitated	12, Kazbegi avenue, 0160, Tbilisi, Tel: (995 32) 37-05-08 E-mail: info@georoad.ge		

Who owns the land? Who uses the land (formal/informal)?	State property
Description of physical and natural environment around the site	<p>Road to be rehabilitated starts on village Grely territory and finished at the entrance of Sapari monastery complex. Total length of the road is 7222 m.</p> <p>Road to be rehabilitated starts on village Grely territory within which only two residential houses with yards are adjacent to the road. There are no other settlement along the road.</p> <p>First section of the road runs adjacent to agricultural lands; The middle section of the road runs xeric vegetation-covered slopes, while the last section of the road diverges from the forest (spruce, pine, deciduous species and bushes) covered slopes. Artificial pine plantations are grown on the slopes along the road as well.</p> <p>The average annual temperature in the region is 9.0°C, average temperature in January is 3,8°C, in August - 20.0C°, annual precipitation is 513 mm.</p> <p>According to geo-morphological zoning of Georgia the SP area belongs to Adjara- Trialeti fold system which is composed of Paleogene-Neogene pyroclastic and sub-argillite deposits, hard rock and half-rock and is located in sub-region of Akhaltsikhe depression.</p> <p>Hard rock within the limits of the sections area is represented by clay and limestone cemented sandstone and volcanogenic tuff-breccia as well as tuff-sandstone, tuffcemented breccia, porphyrites and basalt.</p> <p>According to seismic standards p.n. 01.01.09- "Earthquake engineering" valid in Georgia, the study region belongs to 8 point zone of seismic activity.</p>
Locations and distance formaterial sourcing, especially aggregates, water, stones?	Distance from design zone to the nearest landfill is 5.3km. Distance to the nearest licensed borrow pit is approximately 7-8 km.
LEGISLATION	

<p>National and local legislation and permits that apply to project activity</p>	<p>The SP has been classified as an Environmental Category “B” according to the World Bank policies and the ESMF.</p> <p>Georgian legislation does not require any type of environmental review, approval, or permitting for the SP.</p> <p>Though according to the national regulatory system:</p> <ol style="list-style-type: none"> I. construction materials must be obtained from licensed providers; II. if contractor wishes to open quarries or extract material from river bed (rather than purchasing these materials from other providers), then the contractor must obtain licenses for extraction; III. if contractor wishes to operate own asphalt or concrete plant (rather than purchasing these materials from other providers), then the contractor must obtain an environmental permit with an established ceiling of pollutant concentrations in emissions and technical report on inventory of atmospheric air pollution stationary source agreed with Ministry of Environment and Natural Resources Protection. IV. Permanent placement of the inert material (cut ground and sedimentary soil) generated in the course of earth works in a selected location must be approved by local (municipal) governing bodies in written; V. Dismantled asbestos pipe must be disposed on the nearest municipal landfill in accordance with regulation on “Arrangement, operation, closure and Subsequent Maintenance of the Landfills” (Governmental Decree # 421, August 11, 2015). <p>In case chance find is encountered in the course of earth works, the contractor must immediately stop any physical activity on site and informs the MDF. Works may resume only upon receipt of written permission from the Ministry of Culture and Monument Protection.</p> <p>GOST and SNIP norms must be adhered.</p>
<p>PUBLIC CONSULTATION</p>	
<p>When / where the public consultation process will take /took place</p>	<p>EMP will be discussed with beneficiary community prior to the commencement of works.</p>

ATTACHMENTS
Attachment 1: Site map and pictures Attachment 2: Record on public consultation (to be provided) Attachment 3: Agreement on waste disposal (to be provided) Other permits/agreements – as required

PART B: SAFEGUARDS INFORMATION

ENVIRONMENTAL /SOCIAL SCREENING			
	Activity/Issue	Status	Triggered Actions
Will the site activity include/involve any of the following?	A. Building rehabilitation	<input checked="" type="checkbox"/> Yes [] No	See Section A below
	B. New construction	[] Yes <input checked="" type="checkbox"/> No	See Section A below
	C. Individual wastewater treatment system	[] Yes <input checked="" type="checkbox"/> No	See Section B below
	D. Historic building(s) and districts	[] Yes <input checked="" type="checkbox"/> No	See Section C below
	E. Acquisition of land ¹	[] Yes <input checked="" type="checkbox"/> No	See Section D below
	F. Hazardous or toxic materials ²	<input checked="" type="checkbox"/> Yes [] No	See Section E below
	G. Impacts on forests and/or protected areas	[] Yes <input checked="" type="checkbox"/> No	See Section F below
	H. Handling / management of medical waste	[] Yes <input checked="" type="checkbox"/> No	See Section G below
	I. Traffic and Pedestrian Safety	<input checked="" type="checkbox"/> Yes [] No	See Section H below

¹ Land acquisitions includes displacement of people, change of livelihood encroachment on private property this is to land that is purchased/transferred and affects people who are living and/or squatters and/or operate a business (kiosks) on land that is being acquired.

² Toxic / hazardous material includes but is not limited to asbestos, toxic paints, noxious solvents, removal of lead paint, etc.

PART C: MITIGATION MEASURES

ACTIVITY	PARAMETER	MITIGATION MEASURES CHECKLIST
O. General Conditions	Notification and Worker Safety	<ul style="list-style-type: none"> (a) The local construction and environment inspectorates and communities have been notified of upcoming activities (b) The public has been notified of the works through appropriate notification in the media and/or at publicly accessible sites (including the site of the works) (c) All legally required permits have been acquired for construction and/or rehabilitation (d) The Contractor formally agrees that all work will be carried out in a safe and disciplined manner designed to minimize impacts on neighboring residents and environment. (e) Workers' PPE will comply with international good practice (always hardhats, as needed masks and safety glasses, harnesses and safety boots) (f) Appropriate signposting of the sites will inform workers of key rules and regulations to follow.
A. General Rehabilitation and /or Construction Activities	Air Quality	<ul style="list-style-type: none"> (a) The surrounding environment (sidewalks, roads) shall be kept free of debris to minimize dust (b) There will be no open burning of construction / waste material at the site (c) There will be no excessive idling of construction vehicles at sites
	Noise	<ul style="list-style-type: none"> (a) Construction noise will be limited to restricted times agreed to in the permit (b) During operations the engine covers of generators, air compressors and other powered mechanical equipment shall be closed, and equipment placed as far away from residential areas as possible
	Water Quality	<ul style="list-style-type: none"> (a) The site will establish appropriate erosion and sediment control measures such as e.g. hay bales and / or silt fences to prevent sediment from moving off site and causing excessive turbidity in nearby streams and rivers.
	Waste management	<ul style="list-style-type: none"> (a) Mineral construction and demolition wastes will be separated from general refuse, organic, liquid and chemical wastes by on-site sorting and stored in appropriate containers. (b) Construction waste will be collected and disposed on the nearest municipal landfill. (c) The records of waste disposal will be maintained as proof for proper management as designed. (d) Whenever feasible the contractor will reuse and recycle appropriate and viable materials (except asbestos)

E. Toxic Materials	Asbestos management	<p>(a) If asbestos is located on the project site, it shall be marked clearly as hazardous material</p> <p>(b) When possible the asbestos will be appropriately contained and sealed to minimize exposure</p> <p>(c) The asbestos prior to removal (if removal is necessary) will be treated with a wetting agent to minimize asbestos dust</p> <p>(d) Asbestos will be handled and disposed by skilled & experienced professionals</p> <p>(e) If asbestos material is being stored temporarily, the wastes should be securely enclosed inside closed containments and marked appropriately. Security measures will be taken against unauthorized removal from the site.</p> <p>(f) The removed asbestos will not be reused</p>
	Toxic / hazardous waste management	<p>(a) Temporarily storage on site of all hazardous or toxic substances will be in safe containers labeled with details of composition, properties and handling information</p> <p>(b) The containers of hazardous substances shall be placed in an leak-proof container to prevent spillage and leaching</p> <p>(c) The wastes shall be transported by specially licensed carriers and disposed in a licensed facility.</p> <p>(d) Paints with toxic ingredients or solvents or lead-based paints will not be used</p>
F. Affected forests, wetlands and/or protected areas	Protection of trees along the roads	<p>(a) Trees along the road must be protected from cutting or unintentional damage; Large trees shall be marked and cordoned off with fencing and their root system protected;</p> <p>(b) Movement of vehicles will strictly limit within traffic lane; Pockets for turning of vehicles should be arranged.</p> <p>(c) All workers will be strictly prohibited from, foraging, waste dump or other damaging activities to adjusted landscapes.</p> <p>(d) Any tree that is damaged or dies as a consequence of the construction shall be replaced by a suitably sized transplant at least 1:3 ratio to the approval of the MDF and National Forest Agency.</p>
H. Traffic and Pedestrian Safety	Direct or indirect hazards to public traffic and pedestrians by construction activities	<p>(a) In compliance with national regulations the contractor will insure that the construction site is properly secured and construction related traffic regulated. This includes but is not limited to</p> <ul style="list-style-type: none"> ▪ Signposting, warning signs, barriers and traffic diversions: site will be clearly visible and the public warned of all potential hazards

		<ul style="list-style-type: none">▪ Traffic management system and staff training, especially for site access and near-site heavy traffic. Provision of safe passages and crossings for pedestrians where construction traffic interferes.▪ Adjustment of working hours to local traffic patterns, e.g. avoiding major transport activities during rush hours or times of livestock movement▪ Active traffic management by trained and visible staff at the site, if required for safe and convenient passage for the public.▪ Ensuring safe and continuous access to office facilities, shops and residences during renovation activities, if the buildings stay open for the public.
--	--	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

PART D: MONITORING PLAN

Activity	What (Is the parameter to be monitored?)	Where (Is the parameter to be monitored?)	How (Is the parameter to be monitored?)	When (Define the frequency / or continuous?)	Why (Is the parameter being monitored?)	Who (Is responsible for monitoring?)
CONSTRUCTION PHASE						
Supply with construction materials	Purchase of construction materials from the officially registered suppliers	In the supplier's office or warehouse	Verification of documents	During conclusion of the supply contracts	To ensure technical reliability and safety of infrastructure	MDF, Construction supervisor
Transportation of construction materials and waste Movement of construction machinery	Technical condition of vehicles and machinery; Confinement and protection of truck loads with lining; Respect of the established hours and routes of transportation	Construction site Along transportation route Near settlement areas.	Inspection	Unannounced inspections during work hours and beyond	Limit pollution of soil and air from emissions; Limit nuisance to local communities from noise and vibration; Minimize traffic disruption.	MDF, Construction supervisor, Traffic Police
EarthWorks	Temporary storage of excavated material in the pre-defined and agreed upon locations;	Construction site	Inspection	In the course of earth works	Prevent pollution of the construction site and its surroundings with	MDF, Construction supervisor

	<p>Backfilling of the excavated material and/or its disposal to the formally designated locations;</p> <p>In case of chance finds immediate suspension of works, notification of the Ministry of Culture and Monument Protection, and resumption of works exclusively upon formal consent of the Ministry.</p> <p>Topsoil is striped before starting of the earthworks;</p> <p>Proper topsoil storage practice is applied; Temporary protective silt fencing is erected;</p> <p>Striped topsoil is used for reinstatement and landscaping.</p>				<p>construction waste; Prevent damage and loss of physical cultural resources</p>	
				Construction period: starting from topsoil stripping and ending with reinstatement		
Sourcing of inert material	<p>Purchase of material from the existing suppliers if feasible;</p> <p>Obtaining of extraction license by the works contract and strict compliance with the license conditions;</p>	Borrowing areas	<p>Inspection of documents Inspection of works</p>	In the course of material extraction	<p>Limiting erosion of slopes and degradation of ecosystems and landscapes;</p> <p>Limiting erosion of riverbanks, water pollution with suspended</p>	MDF, Construction supervisor

	<p>Terracing of the borrow area, backfilling to the exploited areas of the borrow site, and landscape harmonization;</p> <p>Excavation of river gravel and sand from outside of the water stream, arrangement of protective barriers of gravel between excavation area and the water stream, and no entry of machinery into the water stream.</p>				particles and disruption of aquatic life.	
Generation of construction waste	<p>Temporary storage of construction waste in especially allocated areas;</p> <p>Timely disposal of waste to the formally designated locations</p>	Construction site; Waste disposal site	Inspection	Periodically during construction and upon complaints	Prevent pollution of the construction site and nearby area with solid waste	MDF, Construction supervisor
Asbestos management	<p>Asbestos located on the SP site is appropriately contained and marked clearly as hazardous material;</p> <p>Asbestos is handled and disposed by skilled & experienced professionals</p>	At construction site	Inspection of documents Inspection of works	In the course of demolition works	Prevent pollution by toxic materials To protect workers' health	MDF, Construction supervisor

	<p>equipped with special PPE</p> <p>Security measures are taken against unauthorized removal from the site.</p> <p>The dismantled asbestos pipes is disposed on official landfill.</p>					
Traffic disruption and limitation of pedestrian access	<p>Installation of traffic limitation/diversion signage;</p> <p>Storage of construction materials and temporary placement of construction waste in a way preventing congestion of access roads</p>	<p>Along construction route.</p> <p>Along materials and waste transportation route.</p>	Inspection	In the course of construction works	<p>Prevent traffic accidents;</p> <p>Limit nuisance to local residents</p>	MDF, Construction supervisor
Property storage of hazardous materials	Containers containing dangerous substances are placed on the second protective tank and be stored in closed containers	Hazardous materials storage area.	Inspection	Periodically during construction and upon complaints	Prevent pollution of the construction site and nearby area	MDF, Construction supervisor
Workers' health and safety	<p>Provision of uniforms and safety gear to workers;</p> <p>Informing of workers and personnel on the personal safety rules and instructions for operating</p>	Construction site	Inspection	Unannounced inspections in the course of work	Limit occurrence of on-the-job accidents and emergencies	MDF, Construction supervisor

	machinery/equipment, and strict compliance with these rules / instructions.					
Completion of construction	<p>Rake or loosen all compacted ground surfaces</p> <p>Ensure that waste and surplus materials are removed from site, or otherwise dealt with according to the wishes of landowners or local residents</p> <p>Excavate any contaminated soil from fuel depots / workshops, remove and reshape the area.</p>	All construction and camp sites	Inspection	After completion of construction	Prevent pollution of the construction site and nearby area after project implementation	MDF, Construction supervisor
OPERATION PHASE						
Maintenance of rehabilitated road	<p>Conduct regular monitoring and inventory of risks for erosion and drainage problems</p> <p>Conduct routine maintenance like grading, drain clearing, pothole patching and shoulder repairs.</p>	Entire road section	Inspection	As required	Prevent road accidents and disruption of traffic	Road Department
Pedestrian safety	Install speed bump at selected places to slow	Entire road section	Inspection	As required	To enhance pedestrians safety	Road Department

	<p>down traffic at critical locations;</p> <p>Promote off-road let down stops;</p> <p>Enhance improvements in road signage and pavement markings.</p>				<p>following increased vehicle speed</p>	
--	-------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--	------------------------------------------	--

Attachment 1: Site Map and pictures













