

Donetski street (Kutaisi Municipality) Rehabilitation Sub-Project

Environmental Management Plan

WORLD BANK FINANCED
SECOND REGIONAL AND MUNICIPAL INFRASTRUCTURE DEVELOPMENT PROJECT (RMIDP II)

Tbilisi, Georgia

2014

PART A: GENERAL PROJECT AND SITE INFORMATION

INSTITUTIONAL & AD	MINISTRATIVE					
Country	Georgia					
Project title	Regional and Municipal Infrastructure Development II					
Subproject title	Donetsk street (Kutaisi	Municip	pality) Reha	bilitation		
Scope of site-specific activity	Rehabilitation of the Donetsk street (the current name is Tavisupleba side street 6) cover, sidewalks (208 m²) and the storm water ditches with manholes and cover. Total length of the street to be rehabilitated within the SP is about 0,260 km. Sidewalks will be arranged for the entire length of road. Length of the storm water pipes is 514m.					
Institutional arrangements (WB)	Task Team Leader: Ahmed Eiweida, Co-Task Team Leader: Xiaolan Wang Safeguards Specialist: Darejan Kapanadze					
Implementation arrangements (Borrower)	Implementing entity: Municipal Development Fund of Georgia	Works Works contractor: supervisor: (tbd)				
SITE DESCRIPTION						
Name of institution whose premises are to be rehabilitated						
Address and site location of institution whose premises are to be rehabilitated	3, Rustaveli avenue, Kutaisi Tel: +(995 431) 24 54 54 E-mail: contact@kutaisi.gov.ge The SP site is located in Western Georgia, Imereti Region, in the city of Kutaisi. Distance from Tbilisi is 220 km.					
	City of Kutaisi. Distance	5 110III 1	011181 18 220	U KIII.		
Who owns the land? Who uses the land (formal/informal)?	Municipal property					
Description of physical and natural environment around the site	City Kutaisi is Georgia's second largest city, and the capital of the western region of Imereti. It is located in Imereti region of western Georgia (220 km from Tbilisi) with the population of 196.5 thousand.					
	The street to be rehabilitated is located in the urban area. The road is bordering to the private houses from both sites. There are no small vendors, public or cultural/religious buildings along the street.					

Locations and distance
for material sourcing,
especially aggregates,
water stones?

Water will be available at the construction site from the municipal water supply system.

Distance to the nearest licensed borrow pit is approximately 5 km.

LEGISLATION

National & local legislation & permits that apply to project activity

The SP has been classified as low risk Category B according to the World Bank policies and the ESMF.

Kutaisi municipal authority approved the SP.

Georgian legislation does not require any type of environmental review, approval, or permitting for the SP. Though according to the national regulatory system:

- (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,
- 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) Construction waste must be disposed on the nearest municipal landfill in accordance with written agreement with the Solid Waste Management Company of Georgia Ltd. under the Ministry of Regional Development and Infrastructure.

Copies of extraction licenses (if applicable), permits for operating asphalt/concrete plants (if applicable), and waste disposal permits will be attached to this EMP once the contractor is selected and mobilized to the work site.

GOST and SNIP norms must be adhered.

PUBLIC CONSULTATION

When / where the public consultation process will take /took place

EMP will be discussed with beneficiary community prior to the commencement of works.

ATTACHMENTS

Attachment 1: Site plan and photos Attachment 2: Documents of public consultation (to be provided) Attachment 3: Agreement on waste disposal (to be provided)

PART B: SAFEGUARDS INFORMATION

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

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.

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
0. General Conditions	Notification and Worker Safety	 (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	 (a) (b) Demolition debris shall be kept in controlled area and sprayed with water mist to reduce debris dust (c) During pneumatic drilling/wall destruction dust shall be suppressed by ongoing water spraying and/or installing dust screen enclosures at site (d) The surrounding environment (sidewalks, roads) shall be kept free of debris to minimize dust (e) There will be no open burning of construction / waste material at the site (f) There will be no excessive idling of construction vehicles at sites (g) Truck loads should be confinement and protected with lining.
	Noise	 (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 (c) The machinery should move only along the preliminarily agreed route; (d) The maximum allowed speed should be restricted; (e) Proper technical control and maintenance practices of the machinery should be applied; (f) No-load operations of the vehicles and heavy machinery are not allowed. Proper mufflers will be used on machinery.
	Water Quality	 (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. (b) Contractor will plan all excavations, topsoil and subsoil storage so as to reduce to a minimum any runoff; (c) Revision of vehicles will be required to ensure that there is no leakage of fuel and lubricating materials. All machinery will be maintained and operated such that all leaks and spills of materials will be minimised. Daily plant checks (Vehicle Maintenance Procedure) will be undertaken to ensure no leaks or other problems are apparent. Vehicle maintenance, cleaning, degreasing etc will be undertaken in designated areas, of hard-standing, not over made ground. Maintenance points will not be located within 50m of any watercourse; (d) Lubricants, fuel and solvents should be stored and used for servicing machinery exclusively in the designated sites, with adequate lining of the ground and confinement of possible operation and emergency spills. Spill containment materials (sorbents, sand, sawing, chips etc.) should be available on construction site; (e) Wet cement and/or concrete will not be allowed to enter any watercourse, pond or ditch.

	Waste management	(a) Waste collection and disposal pathways and sites will be identified for all major waste types expected from demolition and
		construction activities.
		(b) 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.
		(c) Construction waste will be collected and disposed properly.
		(d) The records of waste disposal will be maintained as proof for proper management as designed.
		(e) Whenever feasible the contractor will reuse and recycle appropriate and viable materials (except asbestos)
	Material supply	a) Use existing plants, quarries or borrow pits that have appropriate official approval or valid operating license.
		b) Obtain licenses for any new quarries and/or borrowing areas if their operation is required;
		c) Reinstate used sections of quarries and/or borrowing areas as extraction proceeds on or properly close quarries if extraction
		completed and license expired;
		d) Haul materials in off peak traffic hours.
H Traffic and	Direct or indirect	(a) In compliance with national regulations the contractor will insure that the construction site is properly secured and
Pedestrian Safety	hazards to public	construction related traffic regulated. This includes but is not limited to: signposting, warning signs, barriers and traffic
	traffic and	diversions: site will be clearly visible and the public warned of all potential hazards
	pedestrians by	
	construction activities	 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.
	activities	 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?)
		CONSTR	UCTION 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 constructionmaterials 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	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 predefined and agreed upon locations; Backfilling of the excavated material and/or its disposal to the formally designated locations; In case of chance finds immediate suspension of	Construction site	Inspection	In the course of earth works	Prevent pollution of the construction site and its surroundings with construction waste; Prevent damage and loss of physical cultural resources	MDF, Construction supervisor

	works, notification of the Ministry of Culture and Monument Protection, and resumption of works exclusively upon formal consent of the Ministry.					
Sourcing of inert material	Purchase of material from the existing suppliers if feasible; Obtaining of extraction license by the works contract and strict compliance with the license conditions; Terracing of the borrow area, backfilling to the exploited areas of the borrow site, and landscape harmonization; 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.	Borrowing areas	Inspection of documents Inspection of works	In the course of material extraction	Limiting erosion of slopes and degradation of ecosystems and landscapes; Limiting erosion of river banks, water pollution with suspended particles and disruption of aquatic life.	MDF, Construction supervisor
Generation of construction waste	Temporary storage of construction waste in especially allocated areas; Timely disposal of waste to the formally designated locations	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
Traffic disruption and limitation of pedestrian access	Installation of traffic limitation/diversion signage; Storage of construction materials and temporary	At and around the construction site	Inspection	In the course of construction works	Prevent traffic accidents; Limit nuisance to local residents	MDF, Construction supervisor

	placement of construction waste in a way preventing congestion of access roads					
Workers' health and safety	Provision of uniforms and safety gear to workers; Informing of workers and personnel on the personal safety rules and instructions for operating machinery/equipment, and strict compliance with these rules/instructions	Construction site	Inspection	Unannounced inspections in the course of work	Limit occurrence of on-the-job accidents and emergencies	MDF, Construction supervisor
		OPERA	ATION PHASE			
Maintenance of rehabilitated roads	Installation of relevant signage for traffic safety; Demarcation of the sections of streets under repair; Disposal of asphalt and or other waste from the repair works to the designated landfill.	Rehabilitated sections of roads	Inspection	During maintenance works	Prevent road accidents and disruption of traffic	Kutaisi city hall

Attachment 1. Map and pictures of the Donetski street

Figure 1. Location of the Donetski street

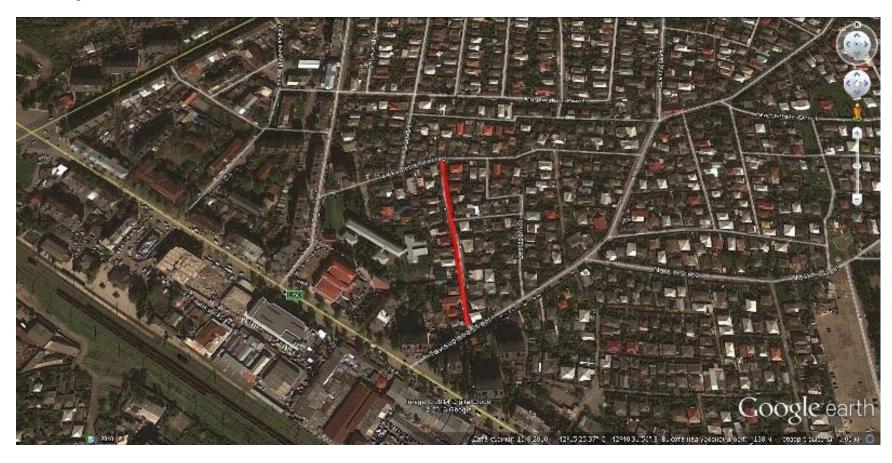


Figure 2.Pictures of the Donetski street







Attachment 2: Documentation on Public Consultation Process

Attachment 3: Waste Disposal Agreement