Environmental Management Plan Mitigation and Monitoring Plan

Checklist for Rehabilitation Activities for Real Estate Cadastre Office of Ruma

1. Introduction

During the funding period 2004 - 2012 the World Bank supported Real Estate Cadastre and Registration Project (RECRP) helped Serbia to establish the Real Estate Cadastre (REC), a single system for real property rights registration, which is under the authority of the Republic Geodetic Authority. The main aim of this Project was to extend support to the development and general advancement of the real estate market on the territory of the Republic of Serbia through formation of a unique real estate cadastre on its territory. Project had two components - Technical and Operational Development and Support (development of a methodology and formation of a real estate cadastre, as well as its maintenance combined with the quality services extended to the customers) and Institutional Development and Capacity Building of RGA. Also, as achievements of this project, the time required to register transactions has been reduced, cadastral offices have been renovated, important geodetic infrastructures have been built and customer satisfaction has improved.

Although results of the RECR Project and improvements in Serbia's real property services were significant, the Government of Republic of Serbia recognized that "there is a whole set of additional reforms in the land sector that need to be undertaken. They relate to building a unified and transparent mass property valuation system to improve property taxation, streamlining and simplifying the process of issuing construction permits, strengthening the e-governance system by enabling on-line use of data related to land and real estate, and most importantly, building the institutional capacities for implementing these reforms." In response to that, a new World Bank funded project in the land sector has been prepared in Serbia – The Real Estate Management Project.

The development objective of new Project is to improve the efficiency, transparency and reliability of Serbia's real property management systems. The primary beneficiaries of the project will be the general population, within Serbia, and internationally, with a special focus on women and vulnerable members of society to ensure that the benefits are more equally distributed.

The main focus of the project is to ensure accurate, complete and electronically available information for the improvement of services and greater transparency. Beneficiaries will also include the land market professionals (lawyers, surveyors, appraisers) and organizations associated with mortgaging, who will benefit from more accurate and accessible real estate data and who will be able to provide better services to the public. Further, government agencies and local government will benefit as they will be able to easily access information about real estate for: planning and property tax purposes; for providing social and other local government services; and through improvements in the use of the real estate that they manage.¹ The Project will have four components:

- 1. Component A Valuation and Property Taxation (US\$ 6 million);
- 2. Component B E-governance for Enabling Access to Real Estate Information (US\$ 24 million);
- 3. Component C Institutional Development of the Republic Geodetic Authority (US\$ 17 million);
- 4. Component D Project Management and Supporting Activities (US\$ 3 million).

Component A will provide all the information required about lands and buildings so that a complete record is available for local government use and improve the methodology for valuing and using that property. In order to make use of this information it must be available on-line. Component B focuses on provision of online services relating to real estate in an e-government environment. The key agency responsible for providing the information about real estate is RGA. Component C focuses on the collection of data and institutional support to RGA. Component D provides the necessary support for this project in various aspects, from training to conducting the necessary studies and project management activities.

Component C - Institutional Development of the Republic Geodetic Authority supports the improvement of the service infrastructure in additional local REC offices and the data acquisition in the areas in stereographic projection in Vojvodina was discussed again. Serbia Real Estate Management Project, as a part of its activities under Component C, envisages support to RGA in rehabilitation of the Real Estate Cadastre office building of Ruma which is the subject of this EMP document.

2. REC office of Ruma

Geographical context of the site is town and municipality Ruma located in Vojvodina, Serbia at 45.00°N 19.83°E. In 2011 the town had a total population of 30,076, while Ruma municipality had a population of 54,339. Area of the municipality is 582 km2.

The location of the site is cadastral parcel no. 280, Cadastral Municipality Ruma, address Zeleznicka 10, Ruma (Photo no. 1). Premises of the REC of Ruma are located in the Building of public authorities and organizations (Photo no. 2) on the ground floor of the building.

Due to ground subsidence there is cracking of walls of the building (Photo no. 3 and 4). The premises are unsuitable for work due to moisture. The rehabilitation activities of the Real Estate Cadastre office building envisage remediation of subsidence and protecting facilities from moisture. Removal and disposal of waste will be done in a proper manner and in accordance with the standards for disposal and destruction of such materials. During the period of rehabilitation of the office building, premises for

¹ Adlington, Gavin P.. 2013. Project Information Document (Concept Stage) - Real Estate Management Project - P147050. Washington, DC: World Bank. http://documents.worldbank.org/curated/en/2013/12/18647894/project-information-document-concept-stage-real-estate-management-project-p147050

the temporary operation of REC office will be rented. Having in mind tha permicies are part of the building, special attention will be on a noise disturbance protection.

In the table given below, Part 1 consists of information on Institutional and administrative arrangements, site description and legislation that apply to project activity. Part 2 is a checklist on environmental and social screening.

In order to avoid, prevent or mitigate the potential occupational and community health and safety risks, potential environmental impacts on air quality, underground waters, noise disturbance, waste generation and management, the good demolition/construction practice implementing several mitigation measures is proposed within the following Environmental Mitigation Plan - EMP Checklist (Part 3). The main responsibility for implementation of EMP related measures lays on the Contractor/Sub-contractor, who needs to take into account and applies on daily basis all proposed preventive and mitigation measures. The Site Supervisor needs to perform the supervision on the practical implementation of the mitigation measures by the Contractor/Sub-contractor, and issue corrective instructions and/or orders, if necessary.

The main inspection responsibility is, according to national legislation, given to the municipal staff (Environmental Inspector and Communal Inspector) that will be involved in monitoring the implementation of the mitigation measures and proposed Monitoring Plan Checklist (Part 4).



Photo no. 1

Photo no. 2





Photo no. 3

Photo no. 4

PART 1: INSTITUTIONAL	L & ADMINIS	STRATIVE					
Country	Republic of S	Serbia					
Project title Serbia Real Estate Management Project							
Component C: Institutional Development of the Republic Geodetic Authority							
Scope of project and	Building rec	overy for the REC office of Ruma					
activity							
Institutional arrangements	WB	Project Management	Local Counterpart a	nd/or Recipient			
	(Project	Republic Geodetic Authority PIU					
	Team	Team	Republic Geodet	ic Authority,			
	Leader)		Belgrade,	Serbia			
Implementation	Safeguard	Counterpart Supervision	Inspectorate	Contactor			
arrangements	Supervision	Counterpart Supervision	Supervision	(it will be			
urrangements	selected		Supervision	added later			
	Consultant	TBD		after			
	for Work			Contractor is			
	supervision			selected)			
	(it will be			,			
	selected						
	afterwards)						
SITE DESCRIPTION							
Name of site	Republic Ge	odetic Authority, Local REC Office	Ruma, Ruma				
Describe site location	Local REC (Office Ruma, is located on address	Attachments:				
	Zeleznicka 1	0, Ruma	- Copy of the parce	l plan 280 KO			
	Parcel numb	ber: 280	Ruma				
<u>N/1</u> (1 1 10	Develie	N 1. • -	- REC data Ruma				
Coographic description	Republic of a	serbla	adina Sambia at 15 0	10 03°E			
Geographic description	In 2011 the t	will all multicipality located in $v_{0}v_{0}$	while Ruma munic	U N 19.05 E. inality had a			
	population o	f 54.339.	, white Ruma munic	ipanty nau a			
LEGISLATION	F • • F						
Identify national & local	Law on spati	ial planning and object building, Off	icial Serbian Gazette	e, no: 72/2009,			
legislation & permits that	81/2009						
apply to project activity.	Location per	mit – Municipality Ruma					
Indicate the institutional	Building per	mit – Municipality Ruma					
authorities with							
responsibility for							
implementing each piece of							
legislation or issuing							
PUBLIC CONSULTATION	T						
Identify when / where the							
public consultation process							
took place							
INSTITUTIONAL CAPACITY BUILDING							
Will there be any need for	[x] N or []Y	if Yes, Attachment 2 includes the capa	city building program				
environmental							
management capacity							
building (e.g.							
environmental training,							
monitoring equipment							
etc.)?							

PART 2: ENVIRON	IME	NTAL /SOCIAL SCREENING		
Will the site	Act	tivity and examples of potential issues and/or impacts	Status	Additional references
activity			If Yes for any	
include/involve	1.	Building rehabilitation	[x] Yes [] No	
any of the		Site specific vehicular traffic		
following potential		 Increase in dust and noise from demolition and/or construction 		See Section B below
issues and/or		Construction waste		
impacts:		• Safety at the site		
	2.	New construction	[] Yes [x] No	
		Excavation impacts and soil erosion	New construction is not planned	
		Site specific vehicular traffic		See Section B below
		Increase in dust and noise from demolition and/or construction		
		Construction waste		
	3.	Individual wastewater treatment system	[] Yes [x] No	See Section Chalant
		• Effluent and / or discharges into receiving waters		See Section C below
	4.	Acquisition of land ²	[]Yes [xNo	
		Encroachment on private property		
		Relocation of project affected persons		See Section D below
		Involuntary resettlement		
		Impacts on livelihood incomes		
	5.	Hazardous or toxic materials ³	[] Yes [x] No	
		• Use of hazardous/toxic materials (solvents, fuels, surface coatings		
		etc.)		San Santian Elastan
		• Removal and disposal of toxic and/or hazardous demolition and /		See Section E below
		or construction waste (e.g. asbestos)		
		Storage of machine oils and lubricants		
	6.	Impacts on forests and/or protected areas	[] Yes [x] No	See Section E helen
		• Encroachment on designated forests, buffer and /or protected areas		See Section F below
	7.	Handling / management of medical waste	[] Yes [x] No	
		• Clinical waste, sharps, pharmaceutical products (cytoxic and		
		hazardous chemical waste), radioactive waste, organic domestic		See Section G below
		waste, non-organic domestic waste		
		On site or off-site disposal of medical waste		

 ² 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.
 ³ Toxic / hazardous material includes and is not limited to asbestos, toxic paints, removal of lead paint, etc.

 8.	Traffic and Pedestrian Safety	[x] Yes [] No	
	Site specific vehicular traffic		See Section H below
	Site is in a populated area		

PART 3: MITIGAT	ION PLAN	
ACTIVITY	PARAMETER	GOOD PRACTICES MITIGATION MEASURES CHECKLIST
A. General Conditions	Notification and Worker Safety	 (a) The local construction and environment inspectorates and communities have been notified of upcoming activities-Project manager obligation (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)-PIU obligation (c) All legally required permits (to include not limited to land use, resource use, dumping, sanitary inspection permit) have been acquired for construction and/or rehabilitation-permits are not needed (d) All work will be carried out in a safe and disciplined manner designed to minimize impacts on neighboring residents and environmentContractor obligation (e) Workers' PPE will comply with international good practice (always hardhats, as needed masks and safety glasses, harnesses and safety boots)Contractor obligation (f) Appropriate signposting of the sites will inform workers of key rules and regulations to followContractor obligation
B. General Rehabilitation and /or Construction Activities	Air Quality	 (a) During interior demolition use enclosed debris-chutes above the first floorContractor obligation (b) Keep demolition debris in controlled area and spray with water mist to reduce debris dustContractor obligation (c) Suppress dust during pneumatic drilling/wall destruction by ongoing water spraying and/or installing dust screen enclosures at siteContractor obligation (d) Keep surrounding environment (side walks, roads) free of debris to minimize dustContractor obligation (e) There will be no open burning of construction / waste material at the siteContractor obligation (f) There will be no excessive idling of construction vehicles at sitesContractor obligation (g) Water dusty areas, particularly during hot, dry or windy weatherContractor obligation
	Noise	 (a) Construction noise will be limited to restricted times agreed to in the permitContractor obligation (b) During operations the engine covers of generators, air compressors and other powered mechanical equipment should be closed, and equipment placed as far away from residential areas as possibleContractor obligation
	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 not relevant
	Waste management	 (a) Waste collection, transport, and disposal sites will be identified for all major waste types expected from demolition and construction activitiesobligation of Contractor and Project Manager (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 containersContractor obligation (c) Construction waste will be collected and disposed properly by licensed collectorsContractor obligation (d) The records of waste disposal will be maintained as proof for proper management as designedObligation of Contractor, Work Supervisor and Project Manager (e) Whenever feasible the contractor will reuse and recycle appropriate and viable materials (except asbestos)Contractor obligation
C. Wastewater	Water Quality	 (a) The approach to handling sanitary wastes and wastewater from building sites (installation or reconstruction) must be approved by the local authorities-not relevant

PART 3: MITIGAT	ION PLAN	
ACTIVITY	PARAMETER	GOOD PRACTICES MITIGATION MEASURES CHECKLIST
		(b) Before being discharged into receiving waters, effluents from individual wastewater systems must be either treated or approved for discharge into the public sewerage system in order to meet the minimal quality criteria set out by national guidelines on effluent quality and wastewater treatment-not relevant
D. Land acquisition	Land Acquisition Plan/Framework	 (a) If expropriation of land was not expected and is required, or if loss of access to income of legal or illegal users of land was not expected but may occur, that the bank task Team Leader is consultednot relevant (b) The approved Land Acquisition Plan/Framework (if required by the project) will be implemented-not relevant
E. Toxic Materials	Asbestos management	 (a) If asbestos is located on the project site, mark clearly as hazardous material -not relevant (b) Asbestos is to be appropriately contained and sealed to minimize exposure-not relevant (c) The asbestos prior to removal (if removal is necessary) will be treated with a wetting agent to minimize asbestos dust-not relevant (d) Asbestos will be handled and disposed by skilled & experienced professionals licensed. Any personal involved with handling asbestos must have personal protection clothing or equipment in accordance with applicable international standards-not relevant (e) If asbestos material is be stored temporarily, the wastes should be securely enclosed inside closed containments and marked appropriately-not relevant (f) The removed asbestos will not be reused, and disposed in officially authorized sitesnot relevant
	Toxic / hazardous waste management	 (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 -not relevant because there is no toxic or hazardous materials (b) The containers of hazardous substances should be placed in an leak-proof container to prevent spillage and leaching-not relevant because there is no toxic or hazardous materials (c) The wastes are transported by specially licensed carriers and disposed in a licensed facilitynot relevant because there is no toxic or hazardous materials (d) Paints with toxic ingredients such as solvents or lead will not be used-not relevant because there is no toxic or hazardous materials
F. Affects forests and/or protected areas	Protection	 (a) For large trees in the vicinity of the activity, mark and cordon off with a fence large tress and protect root system and avoid any damage to the trees-not relevant (b) Adjacent wetlands and streams will be protected, from construction site run-off, with appropriate erosion and sediment control feature to include by not limited to hay bales, silt fences-not relevant (c) There will be no unlicensed borrow pits, quarries or waste dumps in adjacent areas, especially not in protected areasnot relevant
G. Disposal of medical waste	Infrastructure for medical waste management	 (a) In compliance with national regulations the contractor will insure that newly constructed and/or rehabilitated health care facilities include sufficient infrastructure for medical waste handling and disposal; this includes and not limited to: Special facilities for segregated healthcare waste (including soiled instruments "sharps", and human tissue or fluids) from other waste disposal: -not relevant Clinical waste: yellow bags and containers Sharps – Special puncture resistant containers/boxes Domestic waste (non-organic): black bags and containers Appropriate storage facilities for medical waste are in place; and-not relevant

PART 3: MITIGAT	ION PLAN	
ACTIVITY	PARAMETER	GOOD PRACTICES MITIGATION MEASURES CHECKLIST
		 If the activity includes facility-based treatment, appropriate disposal options are in place and operational- not relevant
H Traffic and Pedestrian Safety	Direct or indirect hazards to public traffic and pedestrians by construction activities	 (b) 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 Signposting, warning signs, barriers and traffic diversions: site will be clearly visible and the public warned of all potential hazards-Contractor obligation 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 interferesContractor obligation-Contractor obligation Adjustment of working hours to local traffic patterns, e.g. avoiding major transport activities during rush hours or times of livestock movement -Contractor obligation Active traffic management by trained and visible staff at the site, if required for safe and convenient passage for the publicContractor obligation Ensuring safe and continuous access to office facilities, shops and residences during renovation activities, if the buildings stay open for the publicContractor obligation
I Land clearing and vegetation removal	Pesticide Use	(a) Land clearing vegetation removal shall be done either manually or mechanically. No pesticides shall be used-not relevant
J Use of materials in compliance in international protocols		(a) No insulating materials produced with or containing greenhouse gas agents (foaming or blowing agents) are to be used-not relevant

Remark: Existing information did not confirm presence of asbestos and other hazardous materials in object. If Contractor during the Project implementation find asbestos or other hazardous materials, he will immediately inform the Project Manager and he will follow up the procedure described in this Mitigation plan: Part 3: Part E- Asbestos management.

PART 4: MONI	TORING PLAN						
Phase	What	Where	How	When	Why	Cost	Who
	(Is the parameter to	(Is the parameter	(Is the parameter	(Define the	(Is the parameter	(if not included	(Is responsible
	be monitored?)	to be monitored?)	to be monitored?)	frequency / or	being monitored?)	in project	for
				continuous?)		budget)	monitoring?)
uring activity	Notification and	close to the object	regular	all time	secutrity, quality		Work
preparation	Worker Safety		supervision		of works		Supervision
			Inspection				Inspectorate
							Supervision
During activity	Building	on object	regular	all time	Quality of works		Work
implementation	reconstruction		supervision				Supervision
							Inspectorate
During activity							Supervision
supervision	Traffic and	close to the object		all time	security		_
	Pedestrian Safety		Inspectorate				Inspectorate
			Supervision				Supervision
	57. 10 J	•	Work Supervision				Work
	Notification and	on construction	T	all time	protection		Supervision
	Worker Safety		Inspectorate				T
			Supervision				Inspectorate
			work Supervision	-11 4 ¹			Supervision
	Air Quanty	on construction	Increatents	all time	protection		w ork
			Supervision				Supervision
			Work Supervision				Inspectorate
	Noise	on construction	work Supervision	all time	protection		Supervision
	140150	on construction	Inspectorate	an thine	protection		Work
			Supervision				Supervision
			Work Supervision				oup of cloton
	Waste management	on construction	······	all time	protection		Inspectorate
			Inspectorate		1		Supervision
			Supervision				Work
			Work Supervision				Supervision
			-				•
							Inspectorate
							Supervision
							Work
							Supervision
							Contractor
							Project
							Manager

	 	 •	 	

Remark: Selected Contractor and Project Manager have common responsibility to provide and collect information, documentation, measurements results and to collect progress and work photos that confirm fulfillment of the mitigation plan and monitoring plan during the implementation on the field.