ENVIRONMENTAL MANAGEMENT PLAN

for Civil Works for the Prahova Palace of Justice

ROMANIA: JUDICIAL REFORM PROJECT

(applicable also under Romania – Justice Services Improvement Project)

September 26, 2016

ENVIRONMENTAL MANAGEMENT PLAN

This EMP seeks to manage and keep to a minimum the negative impacts of a development and at the same time, enhance the positive and beneficial impacts.

A copy of the EMP must be kept on site during the construction period at all times. This EMP will be made binding on all contractors operating on the site and is included within the Contractual Clauses.

MITIGATION

Project activity	Potential impact	Impact scale	Proposed mitigation measures	Responsibility			
Construction of Prahova Palace of Justice in Ploiesti municipality							
Preparation activities before construction works start Construction of Prahova Palace of Justice in Ploiesti city, 42 Gheorghe Doja street	 Possible adverse social and health impacts to the population, drivers and workers due to: Lack of ensured safety measures at the start of construction works Injury passing near by the construction site Not compliance with strict OH&S standards and work procedure 	Local/ within public institutions and services area in the city of Ploiesti Short term during the construction period Significance - major	 Establish the access roads, prior to start up activities; The construction site will be temporarily fenced, as jointly established by the customer and the systemization office, in order to prevent the access of unauthorized persons, especially when the site is closed, and for protection against thefts, etc.; Connection to the utilities: For site management purposes, the contractor will take all the necessary measures, together with the power supply and phone network companies, in order to temporarily connect the construction site. The construction site must have artificial lighting when the works are carried out before sunrise or after sunset or in spaces where there is not enough natural light. Security: The contractor must ensure the protection of the site during offwork hours (at night, during weekends). Application of good construction practice for marking out the construction site including: Warning tapes and signage need to be provided; Installation of Notice board with general information about the project, Contractor and Supervisor at street; Forbidden entrance of unemployed persons within the warning tapes; Community and Worker's OH&S measures should be applied (first aid, protective clothes for the workers, appropriate machines and tools); The street and around sidewalks/ small roads should be kept clean; 	 Contractor – Bidder Supervisor Municipal staff (Communal Inspector and Environmental Inspector) 			

Project activity	Potential impact Impact scale		Proposed mitigation measures	Responsibility	
	Possible emissions by transportation vehicles and impact on air quality in the City of Ploiesti due to: - Gases emissions of dust- suspended particulates and traffic congestion within the public institutions and	Local/ within the public institutions and services area short term/ major	 The mobile toilet should be placed on the construction site; Machines should be handled only by experienced and trained personnel, thus reducing the risk of accidents; Larger quantities of flammable liquids should not be kept on the site along the construction street. Construction site, transportation routes and materials handling site should be water-sprayed on dry and windy days; Construction materials should be stored in appropriate places covered to minimize dust; Vehicle loads likely to emit dust need to be covered; Usage of protective masks for the workers if the dust appears; Restriction of the vehicle speed within the construction location; Perform regular maintenance of the vehicles and construction machinery in order to reduce the leakages of motor oils, emissions and dispersion of pollution; Burning of debris from ground clearance not permitted. 	• Contractor – Bidder • Supervisor	
	services area Possible noise disturbance as a result of outdoor equipment usage and transportation vehicles driving around the site	Local/within the public institutions and services area short term /minor	 Whole noise protection area is located in public institutions and services zone and belong to the area with the maximum allowed noise level should be 40dBA for night and 50dBA for evening and day; The construction work should be not permitted during the nights; the operations on site shall be restricted to the hours 7.00 -19.00. 	 Contractor – Bidder Supervisor 	
	Possible adverse environmental impact and health effects could occur as a result of generation of the	Local within the public institutions and services area short term/ major	 Preparation, approval and implementation of the Waste Management Plan, according to the Annex of the R.A.S.P. Ploiesti approval no. 339/11.09.2014; Identification of the different waste types at the construction site (soil, sand, bottles, food, etc.) and proper classification according the national List of Waste (Official Gazette no.100/05); 	 Contractor – Bidder Supervisor 	

Project activity Potential impact Impact sca		Impact scale	Proposed mitigation measures		
	different waste streams The inappropriate waste management and not in time collection and transportation of waste streams		 The main waste would be classified under the Waste Chapter 17 "Construction and demolition wastes (including excavated soil from contaminated sites)" with the waste code 17 05 04 – Excavated soil, 17 09 04 – Mixed waste from construction site; Small amount of solid municipal waste could be found (food, beverages), as well as packaging waste (paper, bottles, glass, etc.). Collection of the generated waste on daily basis, selection of waste, transportation and final disposal on appropriate places (according the type of waste). 		
			 Collection, transportation and final disposal of the inert and communal waste according to the R.A.S.P. Ploiesti approval no. 339/11.09.2014 Possible hazardous waste (motor oils, vehicle fuels) should be collected separately and authorized collector and transporter should be subcontracted to transport and finally dispose the hazardous waste; The materials should be covered during the transportation to avoid waste dispersion; Burning of construction waste should be prohibited. 	 Contractor – Bidder Supervisor 	
• No environme performed.	ntal impacts are expected	during the Operation	nal phase, only regular maintenance of the access street and construction site is ne	eded to be	

ENVIRONMENTAL MONITORING PLAN

What	Where	How	When	Why	Responsibility		
parameter to be monitored?	is the parameter to be monitored?	is the parameter monitored?	is the parameter monitored (frequency of measurement)?	is the parameter monitored?	Construction of building	Operations building	of
Project stage: Preparation act	ivities/ Startup of the	e construction works (s	ite cleanup, and marking out	the route and construction sit	e)		
The safety protection measures applied for the workers and surrounding employees work in the companies located in the public institutions and services area	On the construction site	Visual checks	During the clean-up activities At the beginning of each working day during the project activities	To prevent health and safety risks – mechanical injuries To be in compliance with national communal health regulation and OH&S standards	Contractor - Bidder Supervisor Communal Inspector at the Municipality of Ploiesti		
Safety traffic flow through the construction site in public institutions and services area in city of Ploiesti	On the site	Visual monitoring	During the working day	To ensure the coordinated traffic flow through the city of Ploiesti	Contractor - Bidder Supervisor Communal Inspector in the Ploiesti municipality		
Prepared and approved Waste Management Plan and its implementation	On the site	Review the documentation and approval by the Supervisor is needed	At the beginning of work with new material/s	To ensure minimization of risks for improper waste handling, temporary/final disposal, collection and transportation	Contractor – Bidder Supervisor		

What	Where	How	When	Why	Responsibility		
parameter to be monitored?	is the parameter	is the parameter	is the parameter	is the parameter	Construction of	Operations	of
	to be monitored?	monitored?	monitored (frequency of measurement)?	monitored?	building	building	
Collection and transport as	On safety	Review the	Before the transportation	To improve the waste	Authorized		
well storage of hazardous	temporary	transportation list	of the hazardous waste (if	management practice on	Contractor for		
waste (if any occurs)	storage	and conditions at	there is any)	municipality and national	collection and		
		the storage facility		level/ Not to dispose the	transportation		
				hazardous waste on the	of hazardous		
				waste disposal spots	waste (if any		
					occurs)		
Fulfilled Annual Waste	Local self-	Review of	After the accomplishment	To improve the waste	Mayor of		
Report	government	documentation –	the task of collection,	management on local and	Municipality of		
	administration	Identification of	transportation, temporary	national level	Ploiesti		
		waste list	disposal and final disposal				
			of waste				