

TSD # 12



RTB BOR ENVIRONMENTAL PROTECTION PLAN

For Period 2010-2015



ENVIRONMENTAL PROTECTION PLAN 2010-2015



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The Environmental Protection Plan (EPP) presented in this document was developed by RTB Bor for period 2010-2015. In this plan major problems caused by longtime work of mining and metallurgical operations are identified.

The main environmental problems are related to permanent air and water pollution from past operations, and generation of large amounts of wastes that must be addressed on an on-going basis.

This EPP presents a series of mitigation measures designed to address specific issues or problems. These mitigation measures are described in general terms, and where appropriate and estimate of the cost of specific mitigation measures are provided. The plan also indicates the term of application or implementation and the authority or responsible institution responsible for the execution or specific mitigation measures or programs. Supplementary explanations of specific programs or measures are provides for additional clarity.

Apart from RTB Bor companies (RBB, TIR, Power plant, Sulfuric Acid Plant, etc.) responsibility for mitigation measures execution also have the support of the Municipality of Bor and Government of Serbia.



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General Problems						
	Air pollution from mining activities -Imission (ambient air quality) -Emissions	Reducing dust generation using existing systems and introducing new methods	200,000.00		RBB (Copper mines Bor)	
	Pollution of surface waters from mining activities: -Waste water from open pit V. Krivelj Waste-water from Jama pit -Surface water catchments from mine Cerovo	Reconstruction of pretreatment and sedimentation unit for Water from open pit and draw water in technical water intake of water flotation V.krivelj	20,000.00		RBB (Copper mines Bor)	
		Pumping System strengthened with reserve position	10000.00		RBB (Copper mines Bor)	
		Provide acid-resistant pumps	15000.00		RBB (Copper mines Bor)	
	Waste from the mines: - rubber - Ni-Cd batteries - oil - Radioactive lightning rods	Sort and stored according to legal provisions Develop waste management plan	100,000.00		RBB (Copper mines Bor)	
	Recultivation of tailings dams	According to existing project documentation: sanitation of degraded surface of mine Cerovo quarry, tailings landfill -Saraka stream, - dam 3a and field 2 of flotation tailings. Old flotation tailings Bor	20,000.00 (If not co-funded and does not carry the state environmental field)		RBB (Copper mines Bor) and the Republic of Serbia	
	Agricultural soil pollution Emission of dust from the mine	Conduct research on the existing measuring points as in project-The impact of industrial act. of RTB on land	1000.00		RBB (Copper mines Bor)	
	Reconstruction of Disposal landfill for PCBs	The area is fenced in and extraction of damaged capacitors with PCB and building rubble need to be performed (in the country there is no landfill for hazardous waste so export is planed)	1,000,000.00		RBB (Copper mines Bor) and Republic of Serbia	



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Specific Problems						
1.	The influence of the working environment of safety and health of employees	Examination of the working environment (measuring microclimate, noise, vibration, gases, dust, lighting, fumes, etc.).	5,000	October 2010.	Authorized Institutions	
		Periodic medical examinations of employees	35,000	December 2010	Health services	
		Finding the invisible power cables and other potential hazards to which the work will be performed	30 000	October 2010.	Authorized Institutions	
		Procurement of equipment and personal protection zaposleih that will work on reconstruction and construction Smelter Sulphuric acid plant	50 000	September 2010	TIR - Commercial	
		Set the text panel and warning signs	1500	September 2010	TIR - Commercial	
2.	Risk assessments for working positions in the TIR	Risk assessment: Furnace Sulphuric Acid Plant (audit) Electrolysis Power plant Transport Foundry Copper Wire Metalwork FOZ and Common Services	40 000	December 2010 Dec. 2010 Febr.2011 April 2011 June 2011 October Dec. 2011 Febr. 2012	Forming a team of experts from RTB and outside of licensed staff	If we want to accelerate risk assessment and hire a licensed facility



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				April 2012		
3.	The influence of state of machines, devices, electric and lightning rod	Periodic preventive testing machines, devices, electric and lightning rod	40,000.		Authorized Institutions	
4	Impact on the employees security from hazardous materials	Execute ADR testing of mobile and stationary tanks	1000 year		Authorized Institutions	
		Undertake training of employees to handle hazardous materials in the ADR	3000	December 2010	Authorized Institutions	
5.	Insufficient training of employees in the field of safety and health at work The fire protection	Staff training in TIR, who will participate in the work of demolition and construction of new factories Smelter and sulfuric acid	15 000	Sept. - December 2010	Authorized Institutions	
		Staff training in TIR in the field of fire protection	5000	Sept. - December 2010	Professional institutions in collaboration with the Service ZOP TIR	
		Staff training in TIR in the field of first aid	5000	Sept. - December 2010	Health Centre Pine or Red Cross	
		Professional development and technical equipment of the security services and health at work of TIR	10 000	Sept. - December 2010	TIR-Director	
		Insufficient training of employees to work with new technology in terms of safety and health at work Staff training in TIR	15 000	December 2013th	Authorized institution / provider of technology	



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6.	Impact of work environment on the health of employees	Examination of the working environment (measuring microclimate, noise, vibration, gases, dust, lighting, fumes, etc.).	50 000	After construction completion of Smelter and Sulphuric Acid Plant	Authorized Institutions	
7.	Strengthening cooperation with the local community	Establishment of a joint advisory and coordination committee to monitor the situation and launch measures to improve environmental	No financing needed	The end of 2010	RTB Bor and MUNICIPALITY	There are similar experiences of functioning of the body in earlier years
		Support the strengthening of the Office for Environmental Protection within the municipal administration	No financing needed	Continuous task	RTB, Bor MUNICIPALITY	
		Revision of LEAP		2011	MUNICIPALITY - Office of Environmental protection, RTB	
		Support the strengthening of local environmental fund budget		Continuous task	MUNICIPALITY, RTB	
		Support programs to strengthen environmental awareness and education of citizens		Continuous task	Office of Environment, NGOs, media, educational and cultural institutions	There are traditional programs: Ecological days Bora, environmental camps, schools and others.
		Revitalization Program land in the affected areas		2015	RTB, Local unit Bor Regional Development Project, the Office for the	



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					Protection of Environment	
General Planning Issues						
1	Capacity building of human resources	Waste management training program to state authorities		In accordance with the requirements of training program	The appropriate state agencies, educational institutions	There are training programs for the license, as well as training programs for specific activities on environmental protection
		Training for the management of chemicals under a program authorized state bodies		As above		
		Training for integrated environmental management (monitoring of labor and the environment, energy efficiency, etc.). In accordance with the relevant authorities		As above		
		Training for air quality management program to state authorities		As above		
		Training for recultivation and remediation		As above		
		Risk Management training program to state authorities		As above		
		Support the organization of and participation in the work of experts and scientific meetings		Annually	Faculty of Engineering, Institute of Mining and Metallurgy, RTB, the	There are traditional sets of: Ecological truth,



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					other co-	recycling technology and sustainable development engineers meetings
2	Improvement of employees and the public awareness	Information on activities related to environmental protection in the list on the site of RTB Bor		Continuous task	Service public relations and editorial RTB "collective"	There is a paper factory with a long tradition and the site of RTB
		Information on activities related to environmental protection in the local media and on the municipal website		Continuous task	Service Public Relations RTB and municipalities, media	There is a network of local media
		Information on activities to protect the environment through the activities of NGOs		Continuous task	Environmental services RTB, office environmental municipalities, NGOs	There is a network of environmental NGOs
3.	The influence of the official municipal waste landfill in Bor on the environment and human health	The implementation of the project of rehabilitation and remediation of the existing city landfill in Bor	64,496,232.5 RSD	2013..	JLS JKP 3.oktobar "	Unresolved ownership status of the site
4.	Sanitation of illegal dump sites in the municipality	<ul style="list-style-type: none"> - Perform the audit database with a list of illegal dump sites - Develop a project of rehabilitation of wild dumps with proposals - Providing financial resources and project implementation 	20,000,000.00 RSD	2011th -2012.	JLS JKP 3.oktobar "	Financial assets in the Budget projected fund environmental protection and Bor municipality applying for the Fund for zzs
5.	The problem of planning documents of the regional	- Adoption of Local and Regional Solid	-	2010.	All JLS in the region	The procedure



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	treatment of waste in the municipality of Bor	Waste Management Plan - Agreements on regional cooperation for the purpose of joint action and the use of vehicles for collection and transportation of secondary raw materials from recycling.				
6.	Strengthening the capacity of utility companies	- In accordance with the adopted plan, procure the necessary equipment and machinery and provide the necessary qualification structure and numerous workers - Train existing staff and hire experts for recycling waste	Should be defined	2012-2015.	JLS JKP 3. oktobar "	Given the need to bring in the region, this item will be defined by the regional plan
7.	Strengthening capacities of local communities in accordance with the regional approach	<input checked="" type="checkbox"/> The decision of the Municipal Assembly of choice of location for the transfer station with recycling yard. <input checked="" type="checkbox"/> Resolving ownership issues selected locations <input checked="" type="checkbox"/> Making the necessary planning documents <input checked="" type="checkbox"/> Technical documentation for the transfer station <input checked="" type="checkbox"/> Funds for the construction of transfer stations	For construction of transfer stations 374.000EUR	2011th - 2013.	JLS Directorate for Construction	Financial assets other than from the municipal budget can be provided by: Strategic partner Serbian funds and EU funds; Credit



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8.	Of industrial / hazardous waste in the municipality	<ul style="list-style-type: none"> - Impose an obligation that each generator must prepare a plan and procedure of handling hazardous waste from the moment of creation to final treatment and disposal; - Develop information systems to collect data on hazardous waste 		2012.	All generators in the municipality	Favor the construction of regional landfills for hazardous waste;
9.	Strengthening environmental awareness on issues of Environment & Waste Management	<ul style="list-style-type: none"> -make a program to strengthen environmental education and awareness - implementation of the target groups 		Permanent task	JLS Persons Engaged	
10.	The sustainability of the implementation of local and regional waste management plan	<ul style="list-style-type: none"> -The establishment and enforcement of punitive measures - Strengthening the supervision of the inspection -The establishment of incentive measures 		Permanent task	JLS Ministry	
11	Preparation of planning documents: the Spatial Plan of the municipality, the City Master Plan and the Spatial plan of special purpose areas	<ul style="list-style-type: none"> -Adoption of PP as soon as possible, which would define the land use 		Start 2011.	Spatial Concept for the development of the plan contract is engaged arhitekturu Institute of Urban Planning and in the process of implementation of public procurement for selection of houses which produced PP municipalities Bor.	Amendments to the Law on Planning and Construction changed the procedures of drafting and adoption of PP so that a compliance with it.



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12.	Ambient air quality in the municipality of Bor	<ul style="list-style-type: none"> -Implementation of monitoring of air quality in accordance with the applicable legislation -Regular monitoring work of the team on a monthly basis and more frequently if necessary - Public reporting on the results of air quality control 		Permanent task	Municipality of Bor (JLS), members of the Monitoring Team, ministry of environment and spatial planning and local media	Constantly present problems are maintenance of equipment which monitors air quality and the application of newly adopted laws and regulations in this field.
<p>NOTE: Implementation of regional and local waste management plans, as well as the construction of facilities for storage, treatment and disposal of waste within the competence of JLS is financed from the budget earmarked JLS, loans, grants and funds of legal entities and individuals managing waste fees and other sources of funding In accordance with the law.</p> <p>In the process of resolving the regionalization of municipal waste, the municipality of Bor has signed two documents:</p> <ul style="list-style-type: none"> ☑ Agreement of Intent to establish a regional co-operation of management of municipal solid waste (2006). ☑ Agreement on joint construction and use of sanitary landfills (municipality of Bor and Zaječar administrative district) April 25.2007.year. <p>Completed the detailed design of the official rehabilitation of solid waste landfill in the municipality of Bor (2007.), It is necessary to apply for funds for its implementation.</p> <p>At the local level made the following decisions of significance for waste management:</p> <p><u>The decision on establishing a temporary burial site for the human animal in the municipality of Bor, the number 323-3/2010- II, 07.04.2010.,</u> which is defined as the location of the parcels within the existing city landfill in the municipality of Bor.</p> <p><u>Decision on determining the location for the temporary disposal of construction waste and waste from demolition of buildings is not the territory of Bor, the number 501-89/2010-I, 24.05.2010.,</u> defining the location for the temporary disposal of construction waste and waste from demolition of buildings, as part of a parcel within the existing city landfill in the municipality of Bor.</p>						



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PROTECTION OF AIR in TIR						
1.	Emissions of pollutants from the plant Goldsmiths is in line with national standards	Reconstruction system for waste gases	100 000	March 2012	TIR - Electrolysis	Reconstruction will be done with its own funds RTB
2.	Occasional high concentrations of sulfur dioxide in the city and surrounding area	Strict implementation of the Action Plan to reduce air pollution approved by the Ministry of Environment and Spatial Planning	They did not need additional funds	Continuous task	Smelter and Sulphuric Acid Plant	Daily monitoring of the implementation of the Action Plan of the Republic of environmental inspectors
3.	Sulfuric acid plant overheating in high summer temperatures	At high summer temperatures, there is overheating of sulfuric acid plants, which leads to a reduction in pulling gas from the smelter. Reconstruction of the cooling system will improve the cooling system and create the opportunity for maximum traction and processing of smelter off gases.		August 2010th	Sulphuric Acid Plant	Own funds RTB
4.	Occasional high concentrations of sulfur dioxide and dust on the Power Plant stacks	Supply of coal with low sulfur content and ash	They did not need significant additional funds	Continuous task	RTB - Marketing	
		Regular cleaning of pipeline and maintenance of existing multiciklons units	They did not need significant additional funds	Continuous task	Power Plant	
5.	Low energy efficiency systems for the supply of compressed air drive	Replacement of the existing large compressors that supply compressed air, all plants, compressors less power in each facility. So reduce electric power consumption and emissions of carbon oxides and increase energy efficiency		September 2010th	TIR	



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6.	Insufficient number of measurements of emissions on Smelter and sulfuric acid plant stacks	Monthly measurements of emissions from the licensed institution	1000 EUR / month	Continuous task	Smelter and Sulphuric Acid Plant	
		Preparation of monthly reports on the balance issue	No financing needed	Continuous task	Service Environment	
7.	Occasionally high concentrations of sulfur dioxide in the city and its surroundings, which are not registered at the measuring points for emission	Acquisitions of two portable devices for measuring the concentration of sulfur dioxide in the city and its surroundings. The measurements will perform duty smelters and technologists employed in the service of environmental protection after alerting citizens or based on visual observations of the direction of propagation of smoke. If the measured concentration increased reduction measures undertaken by the production in accordance with the Action Plan.	€ 1,000	August 2010th	Smelter and Department of Environmental Protection TIR	
8.	The need to increase the level of awareness of citizens about air pollution	Participation of the TIR in the work of the monitoring team and local government submitting monthly reports on emissions from the metallurgical plant.	No financing needed	Continuous task	Environmental Service TIR	



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PROTECTION OF WATER TIR						
1.	Harmonized control of waste water with the national legislation	Increase the frequency of measurements on all discharge points of waste water treatment (4 times per year)	€ 10,000 / year.	Continuous task	Environmental Service TIR	
2.	Lack of state control of the quality of surface water	Smelting and refining of copper perform periodic quality control Bor River in one place. It is necessary to increase the number of control points.	€ 3,000 / year.	Continuous task	Environmental Service TIR	
3.	In some summer seasons a significant increase in water plants in the area of the lake	Cleaning the lake from water plants	€ 20,000 per cleaning	In the years the appearance of plants	Power Plant	
4.	Filed for-dams on the tributaries of Lake Bor	On the tributaries that form Bor lake were built for-dam zone to stop the drift. They are filled with layers of silt and plant remains. It is necessary to clean them to prevent sediment entering the lake as follows: - Dam on tributary Valja Zone - Dam of tributary Valja Mare		November 2011th Nov 2012th	Power Plant	
5.	Bor is the multi-lake reservoirs used for recreation (in addition to the basic purpose of an industrial water supply RTB). Lack of proper control of water for recreation.	During the tourist season, Bor Lake is a significant destination for rest and recreation of citizens Timok and eastern Serbia. Regular microbiological and chemical control the water for recreation.	5000 EUR / year	Continuous task	Environmental Service TIR	
6.	Losses of water in inlet channel and pipe network from lakes to the Bor mining - the industrial circle RTB	Cleaning up the channel from the lake to Bor from the sediments species of trees	10 000	September 2010	Power Plant	



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7.	Losses of water in distribution network in mining - the industrial circle	Replacement parts distribution network pipeline in order to reduce losses and consumption of industrial water		October 2010	Power Plant	
8.	A large water specific consumption per produced copper unit	Created a special program to reduce water consumption in all facilities, which includes closing all uncontrolled highlighting in each facility.	No special tools needed	November 2010th	All of TIR	
9.	There are no measurements of water consumption	Installation of flow meter at all important entry points in plants, TIR-a		March 2011.	Power Plant	
10.	There is no single, complete balance of water consumption	Organize a single track and balancing the distribution and consumption of water every month in all the units and the unique company TIR.	They did not need special tools	Permanent task	Power Plant and Environmental Service TIR	
11.	Waste water from the Metallurgical - chemical plant discharged without treatment	Design of waste water treatment plant for smelter, sulfuric acid plant and electrolysis within the project "Modernization of the smelter and the construction of a new sulfuric acid plants"		By the dynamics of SNC Lavalin		
		Obtaining permits for water management plant for waste water: - Water system requests (conditions)	€ 3,000	2 months after the design project 2 months after the	Team building smelter project	
		- Agreement on waters from Ministry of agriculture		development of major projects		
		- Water permit		After proving the parameters		



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				constructed facilities		
		Construction of facilities for waste water treatment		merit 2013th	SNC Lavalin	
		Training employees to operate the system for waste water		January - March 2013th	SNC Lavalin	
Solid and Hazardous Waste TIR						
1.	The terrain on which to build new plants was exposed to the impact of decades of existing operations	Analysis and characterization on site samples and preparation of elaborate the presence of hazardous substances in the soil	30 000	August 2010	Team of new smelter project	
		Characterization of accumulated dust on the surface of the soil and the surfaces in existing plant		August 2010		
		Specify a location for safe disposal of soil and dust from the site of new facilities		August 2010	Team of new smelter project	
		Removal and safe disposal of the removed soil and dust		August 2010	Team of new smelter project	
2.	The company is required to harmonize its operations with the Law on Waste Management	<p>The new Law on waste management company provides that align their business with him as well as the by-laws that are being passed.</p> <p>Proces alignment is in progress and takes place on schedule and methodology to provide the said acts.</p>		December 2015th	Environmental Service TIR	



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3.	In accordance with the national law firm is obligated to make a waste management plan	Plan for waste management for all of TIR which must include a plan for waste arising from dismantling of existing facilities and in the course of construction works on the project of modernization of smelting and new sulfuric acid plant		December 2010th	Environmental Service TIR	
4.	Insufficient level of knowledge of waste management	According to the national legislation should be training people to manage waste in the company. Training and testing is conducted under a program prescribed by the competent ministry. This act is not yet passed		According to the dynamics of the Ministry of Environment and Spatial Planning.	Environmental Service TIR	
		Require the immediate training of employees in the classification, collection and disposal of waste		March 2011.	Human resources RTB	
5.	After the generation of waste is necessary to make sorting and characterization of waste	Immediate after generation of any waste from the production process do its classification, characterization, and determine how to further treatment with the same.		Immediately after the creation of waste	Environmental Service TIR	
6.	There is no provisional design project for the treatment of waste generated in wastewater treatment of new and existing plants	Design of the processing plant and deposition system of waste water sludge from the new smelter, sulfuric acid plant and existing plant electrolytic refining of copper, goldsmith, and regeneration of the electrolyte and copper powder		6 months after the development of the waste water treatment plant by SNC Lavalin	Team building smelter project	The contract with SNC Lavalin - planned project is the creation of facilities for waste water treatment. The project should foresee the nature and quantity of sludge which is the basis for making this project
7.	It is not precisely defined sludge landfill site for waste from	Determine the location for the dump sludge generated from waste water		1 month after the project	Team building smelter project	Location can be determined when a



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	treatment of waste water from new and existing facilities	treatment		development		known quantity of final waste
8.	In accordance with national legislation is necessary to obtain approval for the landfill of waste sludge	Obtaining approval of state agencies: the Ministry of Environment and Spatial Planning, Ministry of Agriculture, Water and Forestry, Ministry of Energy and Mines, Republic Institute for Nature Protection, the Republic Institute for Protection of Cultural Monuments, etc..	€ 2,000	3 months of project development	Team building smelter project	
9.	The temporary storage TIR delayed about 50 tons of catalyst with vanadium (V) oxide. When disassembling sulfuric acid plant will be delayed an additional amount of catalyst.	The catalyst with vanadium(V) oxide is classified as a hazardous waste by the competent authorities. Temporarily stored in the RTB. Disassembly of sulfuric acid factory K-2 be created new quantity of waste catalyst. The state of Serbia has not defined hazardous waste storage. While the definition of the site. After determining the storage catalyst will be delayed in it.		1 month after the decision of the competent ministries of the national repository of hazardous waste.	Service Environment	
10.	Materials that contain asbestos	It is necessary before the dismantling of old equipment and facilities to make inventory list of materials that contain asbestos. Materials that contain asbestos will be temporarily deposited in the appropriate temporary facility to before implementation of national program for its permanent resolution.		September 2010th	Team building smelter project Service Environment	
11.	Made a list of electrical equipment containing PCB oils. According to a national program of the equipment (or oil in it) should be replaced by new oil and destroyed.	During the development of a national management program for PCB. It will be a certain way of dealing with oils containing PCBs, and dynamic performance. TIR will act in accordance with the program and the dynamics be defined.		June 2012	Service Environment	
12.	During normal operation of equipment and vehicles created	The regular replacement of oil in vehicles and equipment, its safe transfusion, and		Regularly, according to	TIR Transport, the Department of	



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	machine and waste motor oil.	temporary storage in dedicated storage that is properly regulated and labeled. After collecting the amount that was agreed with the company that performs recycling, as taught to him. The balance of oil, the quantity of waste oil and its movement leads the prescribed records.		the needs	Environmental Protection TIR	
13.	In foundry for Copper and copper alloys and copper wire factory waste emulsion is created with sintetical oil.	Waste emulsion is placed in temporary storage destination. Further treatment will be in accordance with national regulations on the management of hazardous waste whose adoption is in progress.		Jun 2012th	Environmental Service TIR	
14.	Warehousing and storage of exhausted batteries and accumulators	Exhausted batteries and accumulators are temporarily stored in temporary warehouse. Announces a tender and sale of companies that have licenses for recycling. Accumulators and bat. containing more than 0.0005% w/w of Hg more than 0002% w/w of cadmium are temporarily stored safely and those that are used will be replaced by the prescribed deadlines.		Jun 2012th	Environmental Service TIR	
15.	Open dumps in the mining industry	All open dumps shall be properly marked and fenced to prevent access to the people on them.		September 2010th	Environmental Service TIR	
16.	National law prescribes the duty to provide information on movement of waste and annual balance (quantities)	Submission of required documents on: - Any movement of waste outside the company - Annual audits of waste		At each movement of waste January of each year for the previous year	Environmental Service TIR	



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NOISE PROTECTION IN TIR						
1.	There is no measurement of noise in the city and its surroundings, especially in the areas of possible influence	Measuring noise in the city and its surroundings will be conducted in accordance with national laws, standards and methodology and in defined the zone of possible impact in 3 periods: - before the start of construction - under construction - after the start of the new plant	10 000 10 000 10 000	Sept.2010 Fall 2011th April 2013	Environmental Service TIR	
2.	There is a risk of spill of sulfuric acid from sulfuric acid factory warehouse	Production estimates the risk of chemical accidents	15 000	September 2010th	Environmental Service TIR	Project in progress
		Formation and training of team for risk management		November 2010th	Sulphuric Acid Plant	
		Provision of funds for the reaction in case of accident		November 2010	TIR - Commercial	