Implementation plan

Project Eureka
Name of the project: Green technology for detection and removal of heavy metal ions from wastewater
ACRONIM: ASIPARI
Reg No.Eureka E!5823

PARTNERS: SINOMED FILTRATION Ltd –ISRAEL- Project coordinator -CO
IPA SA –ROMANIA -Partner-P1

STAGE / ACTIVITIES		Duration months	Deadline	Responsible	Necessary funds (EURO)		OBSERVATIONS
Stage I	**I.PROSPECTIVE ANALYSIS**	**3**	**15 02 2011**		**50000**		
	I.1 Undercurrent reviewing techniques for industrial wastewater treatment containing heavy metals	**3**		**Sinomed Filtration**	**25000**		
	I.2 Methods and techniques revision for analyzing polluted, water-based environments with heavy metals. Stripping technology application in determining the content of heavy metals in polluted waters.	**3**		**IPA**	**25000**		
Stage II	**II. Development of novel constructive AND / OR technological solutions for creating a system for determining the concentration of heavy metals ions in wastewater environments using the electrochemical (striping) methods.** • **Designing of the laboratory method of analysis** • **Optimization of the laboratory method developed (small scale)** • **GMP test (Good Manufacture Procedures). - Knowledge achievements exchange among partners.**	**10**	**15 12 2011**		**350000**		
	II.1 Recognition, monitoring and control of total parameters in the industrial electroplating section. **Database building containing all parameters involved in the technological process and in the analysis process. Model elaboration- Data transfer to IPA**	**2**		**Sinomed Filtration**	**10000**		
	II.2 Link up monitoring parameters, range measurements intervals, mistreatment conditions of the chemical process. Database building. Data transfer to Sinomed Filtration Ltd.	**2**		**IPA**	**10000**		
	II.3 Development of the Flow Measurement System Configuration Model. Block scheme Design.	**1**		**SINOMED** **IPA**	**7500** **7500**		
	II.4 Design and production of the experimental model with the connection device to the electrochemical sensor equipment.	**1**		**SINOMED**	**15000**		
	II.5 Developing of the measurement model using the stripping method.	**1**		**IPA**	**10000**		
	II.6 Survey of sampling analysis in the stainless steel electroplating plant. Conceptual sampling model improvement.	**1**		**SINOMED**	**10000**		
	II.7 Mounting the experimental model: the acquisition system and remote data transfer equipment.	**2**		**IPA**	**15000**		
	II.8 Rising the experimental model: "Quantification system for the metallic ions' contained in industrial wastewaters"	**4**		**SINOMED** **IPA**	**60000** **60000**		**Each partner will develop a model**
	II.9 Laboratory optimizations using stainless steel industrial wastewater	**3**		**SINOMED**	**20000**		

	samples processed in the laboratory.			IPA	20000	
	II.10 Study and optimization for mounting the sensitivity and selectivity of the electrochemical electrodes using bio organic-inorganic nano-structured materials.	3		SINOMED IPA	20000 20000	
	II.11 Management and exhibition of functionality and utility of the model realized in order to promote a novel solution of heavy metals analysis	1		SINOMED IPA	7500 7500	
	II.12 Intellectual propriety-Identification and protection of proprietary rights.			SINOMED IPA	5000 5000	
	II.13 (Mutual) Good practice exchange between partners. Bilateral work visits		permanent	SINOMED IPA	20000 20000	
Stage III	III.ELABORATION OF MARKETING DOCUMENTATION. ELABORATION OF TECHNICAL DOCUMENTATION FOR REALIZING THE PROTOTYPE "SENSORING EQUIPMENT FOR QUANTIFYING METAL IONS' IN INDUSTRIAL WASTEWATERS"	11	15 11 2012		240000	
	III.1 Development and design documentation for technical and economical analysis	4		Sinomed Filtration IPA	35000 35000	
	III.2 Development of technical documentation for the prototype realization.	7		Sinomed Filtration IPA	50000 50000	
	III.3 Intellectual propriety-Identification and protection of proprietary rights.		permanent	Sinomed Filtration IPA	5000 5000	
	III.4 (Mutual) Exchanges of good practice between partners. Bilateral work visits.		permanent	Sinomed Filtration IPA	30000 30000	
Stage IV	IV. Prototype: developing, verification and optimization	12	15 11 2013		360000	
	IV.1Prototype production	7		Sinomed Filtration IPA	110000 110000	Each partner will develop-realize a prototype based on the execution documentation.
	IV.2Prototype testing and verification	3		Sinomed Filtration IPA	30000 30000	
	IV.3 Developing a presentation manual/user manual	2		Sinomed Filtration IPA	5000 5000	
	IV.4 Intellectual propriety- Identification and protection of proprietary rights		permanent	Sinomed Filtration IPA	5000 5000	
	IV.5 (Mutual) Exchanges of good practice between partners. Bilateral work visits.		permanent	Sinomed Filtration IPA	30000 30000	
TOTAL		36		Sinomed Filtration IPA	500000 500000	

TOTAL PROJECT= 1000000 EURO: Duration 36 months: Start date: 15 11 2010

SINOMED FILTRATION Ltd

Robert Asimow

SINOMED FILTRATION LTD.

IPA SA

Marcel Ionica

IPA SA CIFATT Craiova