

S.C. ROMCARBON S.A.



Buzău – Romania

J/10/83/1991 – COD FISCAL

1158050

120012 Buzău. Str. Transilvaniei,
nr. 132

Tel.: 0238/711.155 ; 0338/105620



Nr.inregistrare: 2761 / 18.03.2014

To Board Administration,

We introduce and propose for approval the list of investments and argument on the opportunity to their perform according to estimation of each Profit Centre in part totaling EUR 5,503,600.00.

Structure of proposed investments

No	INVESTMENT	2014 Investment Plan–Project		Estimation of financing sources euro	
		Value EURO		Leasing finan- cial/ Lease- back /Credit bank	Own sources
		Euro	Lei		
1	Measuring and monitoring parameters equipment for MSI 94 CO test bench: air flow meter, pressure transducer, temperature and humidity transducer, paperless recorder; computer+printer; distributor+program	15,000.00	69,000.00		15,000.00
2	Special gas storing and preparing station according with legal requirement, include thermostating bath for Central Lab(3500 e), second step	13,500.00	62,100.00		62,100.00
3	Oven	2,000.00	9,200.00		9,200.00
4	Thermoscale	4,000.00	18,400.00		18,400.00
	TOTAL LABORATORY	€ 34,500.00	158,700.00 lei	€ 0.00	€ 34,500.00
5	PU dosing head for Cannon machine	10,000.00	46,000.00		10,000.00
6	Device for application of Macroplast on metallic lids of filter elements	40,000.00	184,000.00	28,000.00	12,000.00
	TOTAL PROFIT CENTER 1	€ 50,000.00	230,000.00 lei	€ 28,000.00	€ 22,000.00
7	Winding device for Venus coextruder	60,000.00	276,000.00	42,000.00	18,000.00
8	Off-line 8 layers pleating device	25,000.00	115,000.00	17,500.00	7,500.00
9	Extruder D=55 mm for foils with 2-3 m widths	50,000.00	230,000.00	35,000.00	15,000.00
10	1800 mm Dolci mold reconditioning	15,000.00	69,000.00		15,000.00
	TOTAL PROFIT CENTER 3	€ 150,000.00	690,000.00 lei	€ 94,500.00	€ 55,500.00
11	Space reorganization – drainage, louver, lockers	35,000.00	161,000.00		35,000.00
	TOTAL PROFIT CENTER 5	€ 35,000.00	161,000.00 lei		€ 35,000.00
12	Manual sewing machine New long-5 pcs	17,000.00	78,200.00		17,000.00
13	Extruder 1500ES and 24 loom	1,760,000.00	8,096,000.00	1,232,000.00	528,000.00
	TOTAL PROFIT CENTER 6	€ 1,777,000.00	8,174,200.00 lei	€ 1,232,000.00	€ 545,000.00

14	Storage spaces arrangement	285,000.00	1,311,000.00		285,000.00
15	Calcination oven	55,000.00	253,000.00	38,500.00	16,500.00
16	Recycling line Corema (extruder)	750,000.00	3,450,000.00	525,000.00	225,000.00
17	Erema doser	20,000.00	92,000.00		20,000.00
18	Washing and recycling line for big bag, HDPE/PP bottles water treatment plant, space arrangement	2,250,000.00	10,350,000.00	1,575,000.00	675,000.00
	TOTAL PROFIT CENTER 7	€ 3,360,000.00	15,456,000.00 lei	€ 2,138,500.00	€ 1,221,500.00
19	Forklift CP3 – 1,5t-5,5m	30,000.00	138,000.00		30,000.00
20	Medical space arrangement	1,600.00	7,360.00		1,600.00
21	Server Atlantis	10,500.00	48,300.00		10,500.00
22	Computers network	45,000.00	207,000.00		45,000.00
23	Xerox	1,500.00	6,900.00		1,500.00
24	Rehabilitation waterproofing ST1-PT1 Iasi	8,500.00	39,100.00		8,500.00
	TOTAL ADMINISTRATIVE	€ 97,100.00	446,660.00 lei	0.00	€ 97,100.00
	TOTAL INVESTMENTS	€ 5,503,600.00	25,316,560.00 lei	€ 3,493,000.00	€ 2,010,600.00

Description of proposed investments

➤ ***PROFIT CENTER NO. 1***

• **Polyurethane dosing head for Cannon machine**

✓ Estimated value of investment: 10.000 euro

✓ It is proposed to replace the old head which shows the high degree of wear. During operation appear disorders that lead to increased consumption of materials. Require higher maintenance expenses, losses causing interruption of manufacture (labor and materials) and non-compliant products.

• **Device for application of Macroplast on metallic lids of filter elements**

✓ Estimated value of investment : 40.000 euro

✓ It is proposed to increase the productivity of the operation which is currently done by dispensing components, mixing and manual application. Applying of this solution will lead to reduction in specific consumption and product quality increasing. The main products in the portfolio are presented bellow, Excel file.

Using this equipment, reducing costs opens the possibility of widening of the product range with natural gas air filters and oil filter with large dimensions thus completing the advantage of investments already made by purchasing of blades folded machine.

✓ Profit growth resulting with value 50.758,91 lei (11.035 euro) for these filters, according with 2014 Sales Plan. ie 6,2%.

✓ Payback – 3,6 years.

Cod filtru	cost redus dupa investitie	cost lista 18 nov	% reducer e cost	buc bugetate	reducere de cost	pret buget	%profit buget	profit buget	%profit marit	crestere a profit	valoare bugetata	profit marit
FA P2642	155,96	160,4	2,85	100	444	376,3	134,60%	50650,36	141,28%	6,68%	37630	53163,5
FC P960	91,51	95,97	4,88	80	356,8	197,7	106,00%	16765,26	116,04%	10,04%	15816	18353,2
FA P1098/D	98,78	100,68	1,92	162	307,8	139	38,06%	8570,62	40,72%	2,66%	22518	9168,6
FA P2643/B	52,66	54,08	2,7	200	284	150	177,37%	53210,06	184,85%	7,48%	30000	55453,8
FU P2553	122,81	124,57	1,43	450	792	144,35	15,88%	10314,36	17,54%	1,66%	64957,5	11393,0
FU P475/B	97,64	100,91	3,35	1200	3924	119,36	18,28%	26187,99	22,24%	3,96%	143232	31861,5
FU P475/A	103,25	106,59	3,23	1200	4008	183,19	71,86%	157977,53	77,42%	5,56%	219828	170199,0
FA P2551/A	104,27	106,88	2,5	300	783	266,3	149,16%	119162,27	155,39%	6,24%	79890	124144,7
FU P402	47,56	48,75	2,5	400	476	85,29	74,95%	25571,25	79,33%	4,38%	34116	27064,6
FA P1094	89,47	91,71	2,5	60	134,4	125,83	37,20%	2808,85	40,64%	3,44%	7549,8	3068,1
FA P864	69	70,82	2,6	60	109,2	113,56	60,35%	4112,02	64,58%	4,23%	6813,6	4400,2
FA P1588	134	138,08	3	40	163,2	291,8	111,33%	12994,06	117,76%	6,43%	11672	13745,0
FA P2169/B	103,31	106,41	3	40	124	152,25	43,08%	2623,49	47,37%	4,29%	6090	2884,5
FA P2650	148,21	152,66	3	60	267	733,3	380,35%	167345,73	394,77%	14,42%	43998	173691,3
FA P2653	267,43	275,45	3	60	481,2	476	72,81%	20794,00	77,99%	5,18%	28560	22274,0
FA P2427	441,3	456,75	3,5	121	1869,45	711,98	55,88%	48140,03	61,34%	5,46%	86149,58	52841,5
FA P2643/B	52,76	54,08	2,5	150	198	150	177,37%	39907,54	184,31%	6,94%	22500	41468,5
FU P545	25,57	26,21	2,5	400	256	59,27	126,14%	29904,10	131,80%	5,66%	23708	31245,5
FA P1836	123,13	126,21	2,5	16	49,28	209,5	65,99%	2212,09	70,15%	4,15%	3352	2351,2
FU P904	12,18	12,49	2,5	596	184,76	25,66	105,44%	16125,98	110,67%	5,23%	15293,36	16925,6
FU P906/M	41,89	42,94	2,5	126	132,3	77,04	79,41%	7708,66	83,91%	4,50%	9707,04	8145,2

823.086,25

873.845,161

➤ **PROFIT CENTER NO. 3**

- **Winding device for Venus coextruder**
- **Off-line 8 layers pleating device**

- ✓ Estimated value of investment : 85.000 euro
- ✓ The need for accurate winding and folding in 8 are determined by the market demand for quality products . We refer here to 4000-10000 mm size range between 90-200 microns thick made of color and natural recycled material and products made from virgin material to occupy as little space for transport and storage. In the case of long distance transport for widths between 10,000-12,000 mm can be loaded up to 13 tons in a truck 22 tons. In terms of folding in 8 we will be able to load 22 tons and transport costs per unit of product for distances of 1500-2500 km will decrease by 40 % from 100 EUR / t to 60 € / ton. Palletizing when folding in 4 which we have currently is almost impossible in the case of export orders to be shipped long distances . Delivery of roller unpalletized is unaccepted by Western European customers . We believe that the two above investments will bring increased of foils sales from 300 tons / year 2014 at 500 tons / year in 2015 and 700 tons / year in 2016 and an annual increase in profit of 40.000 EUR for products defined above .
- ✓ The two investments will help us to use small head of big co-extruder for foils from color regranulated material to increase volumes sold to Germany, Switzerland, Netherlands. They will bring larger quantities sold with 400 tons / year and higher profits with 15.000 EUR / year (5% margin) for products from color regranulated, width 6000-10000 mm, thickness 90-200 microns.
- ✓ Payback : 1,5 years

- **Extruder D=55mm for foils with 2-3 m widths**

- ✓ Estimated value of investment : 50.000 euro
- ✓ Since 2013 we started working with the company Prodinger Switzerland which has a consumption of 40 tons per month foils from color regranulated with width 2000-3000 mm, which occupied together with national orders entire capacity of the three existing similar extruders .
- ✓ Considering buying a single extruder of this type can estimate a capacity of 32 tons per month with a margin products added by 50 EUR / ton which means an annual profit of 19.200 EUR.
- ✓ Payback: 2,6 years.

- **1800 mm Dolci mold reconditioning**

- ✓ Estimated value of investment : 15.000 euro
- ✓ This mold gives the opportunity to obtain 2-3 seasons foil with 12 m width with a thickness (0.15-0.18 mm) corresponding to resistance, while the mold currently used with width 1200 mm are obtained film thicknesses from 0.095 to 0,13 mm, film thicknesses not recommended for 2-3 seasons foil.

➤ **PROFIT CENTER NO. 5**

- **Space reorganization**

- ✓ Estimated value of investment : 35.000 euro
- ✓ After the control of the Public Health Direction have received recommendations of organization of space with reference to the flow separation of personal access to and from the production sectors (by doubling capacity for locker space for both women and men).
- ✓ Creating a network of drainage water from rainfall on the area of the former maturation hall to avoid the appearance of water stationary on concrete platform.
- ✓ Furnishing of maturation deposit with louvers to protect eps foil from environmental factors.

➤ **PROFIT CENTER NO. 6**

- **Extruder 1500ES and 24 looms**

- ✓ Estimated value of investment : 1.760.000 euro
- ✓ Necessity of purchasing of new equipment, performant appeared due to the fact that in the market, product quality is getting higher at low prices.

Advantages:

1. New machines make it possible to cover the orders from extra-season by taking orders from external customers requesting the high quality at low prices.
2. Increased profitability margin throughout the year, but especially in the season, due to lower production costs due to increased productivity.
3. Important customer retention that can generate large volumes of sales and who are interested in not only price but also high quality packaging (eg AZOMURES, AGRANA etc.).

Recovery of investment through:

1 Reduce of manpower value			
Name	Capacity kg/day	Manpower value lei/year	
Old extruders(7 lines)	12.000	773.453	
New extruder	8.900	229.458	
Old extruder (3 lines)	4.500	193.363	
Economy		350.632 lei/year	
		76.224 euro/year	
2 Reduce of electricity consumption			
Name	Consumption kw/day	Consumption value lei/year	
Old extruders(7 lines)	7.147 €	1.003.439	
New extruder	2.400 €	336.960	
Old extruder (3 lines)	4.000 €	561.600	
Economy		104.879 lei/year	
		22.800 euro/year	
3 Decreasing cost of spare parts			
Economy		80.000 lei/year	
		17.391 euro/year	
4 Reduce of wastages			
Name	Estimate quantity 2014 (tons)	Waste (tons)	Section cost semifabric (lei)
Old extruders(7 lines)	3786	75,72	
New extruder	2347,32	23,47	
Old extruder (3 lines)	1438,68	28,77	
Economy		23,47	5,6
		131.449,92 lei	
		28.576 euro/year	
TOTAL economy 1-4		144.991 euro/year	

- ✓ Add to this the value resulted from the unification range of textures: different textures will be eliminated: 550, 600, 630 with average price 8903,85 lei / ton and will be made the texture of 10x10/500 with price 9119,61 lei/ ton. Result savings of 96.565,00 euro per year.
- ✓ The actual capacity of looms is 96 looms x 2000 ml / day x 30 days = 5.76 million ml / month with a monthly production of 320.5 tons / month.
The new capacity will become:
60 old looms x 2000ml/zi x 30 days = 3.6 million ml x 56g/ml = 202 tons / month
24 new looms x 2000ml/zi x 30 days = 2.88 million ml x 56g/ml = 161 tons / month.

Resulting average monthly capacity of 6.48 million ml / 363 tons. Capacity increases by 42.5 tons / month, which is approximately 13%. Decrease the average cost of production estimated to be 6%. Give an annual value obtained from the difference in costs of 186 857 euros.

- ✓ Total savings : 428.413 euros
- ✓ Payback: 4,11 years
 - **New Long hand sewing machines - 5pcs**
- ✓ Estimated value of investment : 17.000 euro
- ✓ Necessity of purchasing new sewing machines derives from the market opportunities increasingly higher for amounts contracting of increased hemming bags. This is visible again this year when we got this constant orders also from internal customers (eg. AGRANA, EXPERGO etc.), which resulted in last months to excess capacity in this operation manual.

➤ **PROFIT CENTER NO. 7**

- **Storage spaces arrangement**

- ✓ Estimated value of investment : 285.000 euro

The works consist of:

- ✓ Making a closed deposit (approximate dimensions LxWxH = 24.00x10.00x6.00 m) for storage of polymer fractions supplied as a "walking floor" ; this deposit is connected to the production line through network feed conveyors.
- ✓ Making a roofs (same size with warehouse 1) with the destination waste storage of polymers that can be affected by humidity.
- ✓ Arrangement of the free space from inside of CP7 in order to make a deposit for small components required in production activity.
- ✓ Arranging a concrete platform with an area of about 850 square meters, with the role of polymer waste storage are not affected by humidity.
- ✓ Change the destination of CP3 warehouse, the storage for agriculture foil in storage for plastic fraction supplied in big bag.
- ✓ Changing the destination of space in which worked Zentyss by partitioning in order to have storage of product storage resulted from the CP7.
- ✓ Practicing an access door size WxH = 4.00x3.00 m in CP3 finished goods warehouse to take over and storage agriculture foil rolls with length of 3.00 m .

- **Corema regranulation line**

- ✓ Estimated value of investment : 750.000 euro
- ✓ COREMA brings together all the benefits of recycling and compounding in one system for the first time. The proven, robust EREMA technology is used to turn recycling raw material (e.g. PP nonwoven, PE edge trim, PA fibres etc.) into a filtered melt which then goes directly to a co-rotating twin-screw extruder from Coperion. With its excellent mixing and gas removal properties, this part of the system can handle all compounding tasks. Besides the dosing of a wide variety of additives, fillers and reinforcing agents can be admixed in doses that are higher than those previously possible with EREMA recycling systems.

- ✓ Taking as example the product RPP BE5, it could produce using one regranulation achieving a yearly saving of 102.960 euro / year, relative to 858 tons / year.
- ✓ The acquisition of this line gives the possibility to approach a wider range of waste resources (thermoformed, fractions with low density), eg PS, for which there are a number of potential customers with quantities of 836 tonnes / year at a value of 718.520 EUR / year (with a 10% profit - 71.852 euro / year)
- ✓ Payback : 4,29 ani

- **Big bag, HDPE/PP bottles washing-Recycling line**

- ✓ Estimated value of investment : 2.250.000 euro
- ✓ The plant is able to process waste mainly polyolefins: packaging HDPE / PP, big bags, films and sheets, hangers, toys, small household, plastic tanks, barrels, bars, car bumpers, labels and caps.
- ✓ By purchasing this line will open access to a valuable source of PP big bag of post-consumption. At the moment we use this type of PP in recipes for automotive. Due to growing demand, just for a customer, „Chimica”, with 3-4 trucks per month, already faced with a shortage of supply. At the moment only Ecofriend Aydenyz Medgidia has the ability to process big-bag waste. The new line of washing is estimated increasing of compounds based on PP raffia production at approx. 150-200 tons / month, which will be reflected in an increase in turnover by 1.2 to 1.6 million / year (where a capacity of 0.5 t / h is taken into account).
- ✓ Payback : 14 years
- ✓ Payback if it reduces hall construction costs by placing the line in an existing space: estimated 1.6 million Euro: 10 years
- ✓ Payback if the turnover increase to 2.94 million euros / year (assuming a capacity of 1 t / h) and 1.6 million Euro investment amount: 5.4 years.

- **Calcination oven**

- ✓ Estimated value of investment : 55.000 euro
- ✓ Calcination oven removes organic contamination on metal parts (sieves, extruder head, etc..) through a process of thermal decomposition under vacuum.
- ✓ The cost of thermal and chemical treatment to Ettlinger is 585 euro. If treated 20 times / year (change the filter every 22 tons, 22 days / year working on recycled products at a capacity of 800 kg / h) recover investment: 4.7 years.

- **Dosing unit Erema**

- ✓ Estimated value of investment: 20.000 euro
- ✓ Mounting of a dosing unit on Erema extruder unui dozator pe extruderul Erema allow dosing of color masterbatch during extrusion eliminating the second phase of regranulation.
- ✓ Payback: considering dates -100 euro / t processing cost Coperion * 5t/day capacity of Erema = 500 euro/day- can be estimated that the recovery is done in less than one year depending on the structure of commands.

➤ **LABORATORY**

• **Measuring and monitoring parameters equipment for MSI 94 CO test bench:**

air flow meter, pressure transducer, temperature and humidity transducer, paperless recorder; computer + printer; distributor+program

- ✓ Estimated value of investment: 15.000 euro
- ✓ Provision of such equipment is required to comply with European norms - EN 404/2005.
- **Special gas storing and preparing station**
- ✓ Estimated value of investment: 13.500 euro
- ✓ Provision of such equipment is required to comply with legislation for special gas use and storage
- **Oven**
- **Thermoscale**
- ✓ Estimated value of investment: 6000 euro
- ✓ Are needed for conditioning specimens and for determining moisture in active carbon.

➤ **ADMINISTRATIVE**

- **Electric forklift**
 - ✓ Estimated value of investment : 30.000 euro
 - ✓ We require the acquisition of an electric forklift to reduce and simplify the operating costs (eg.: remove diesel) and to eliminate downtime of the processes and the pollutants emitted.
 - ✓ Using the same type of forklift existing in other sectors allows the use of battery backup at both forklifts. In addition, existing forklift trucks have proved reliable and practical.
 - **Medical space arrangement**
 - **Atlantis Server**
 - **Computer network**
 - **Xerox**
 - **Rehabilitation waterproofing ST1-PT1 Iasi**
 - ✓ Estimated value of investment : 67.100 euro
- We kindly ask you to approve the proposed investments with value , according the offers , 5,503,600.00 euros and to empower the General Manager and Financial Manager to sign any necessary documents related to the fulfillment of the Administration Board's approval.

General Manager,

Eng. Radu Andrei



Financial Manager,

Ec. Viorica Zainescu



Tehcnical Manager,

Eng. Mihai Titi



INVESTMENT PLAN 2014-PROJECT

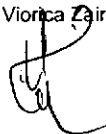
1 EURO = 4.6 RON

No	INVESTMENT	Investment Plan 2014 -Proposal		Estimation of financing sources 2014	
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	TOTAL Laboratory	€ 34.500,00	158.700 lei	€ 0,00	€ 34.500,00
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	TOTAL	€ 5.503.600,00	25.316.560 lei	€ 3.493.000,00	€ 2.010.600,00

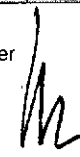
General Manager
 Eng. Radu Andrei



Financial Manager
 Ec. Viorica Zainescu



Technical Manager
 Eng. Mihai Titi





S.C. ROMCARBON S.A.



Certificat SGS
RO07/0003TS

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Nr.inregistrare: 2761 /18.03.2014

Catre Consiliul de Administratie

Va prezentam si va propunem spre aprobare lista investitiilor precum si argumentarea privind oportunitatea acestora conform estimarilor fiecarui Centru de Profit in parte, in valoare totala de 5,503,600.00 euro.

Structura investitiilor propuse

Nr	INVESTITII	Propuneri Plan Investitii 2014		Estimare surse de finantare 2014	
		Valoare-EURO-	Valoare-Ron-	Credit /Leasing 70%	Surse proprii
1	Echipamente de masurare si monitorizare a parametrilor pentru standul de incercare la CO a MSI 94: rotametrul aer, traductor presiune, traductor temp. Si umiditate; inregistrator fara hartie; calculator +imprimanta, distribuitor+ program	€ 15,000.00	69,000 lei		€ 15,000.00
2	Statie de depozitare si preparare gaze speciale in conformitate cu cerintele legale, include baie termostatare pt. Lab. Central(3500 e) etapa 2	€ 13,500.00	62,100 lei		€ 13,500.00
3	Etuva	€ 2,000.00	9,200 lei		€ 2,000.00
4	Termobalanta	€ 4,000.00	18,400 lei		€ 4,000.00
	TOTAL Laborator	€ 34,500.00	158,700 lei	€ 0.00	€ 34,500.00
5	Cap dozare poliuretan pentru masina de dozat poliuretan Cannon	€ 10,000.00	46,000 lei		€ 10,000.00
6	Aplicator de adeziv bicomponent tip Macroplast pe capace metalice	€ 40,000.00	184,000 lei	€ 28,000.00	€ 12,000.00
	TOTAL CENTRU PROFIT 1	€ 50,000.00	230,000 lei	€ 28,000.00	€ 22,000.00
7	Infasurator coextruder Venus 100/100/150	€ 60,000.00	276,000 lei	€ 42,000.00	€ 18,000.00
8	Pliator in 8 off-line	€ 25,000.00	115,000 lei	€ 17,500.00	€ 7,500.00
9	Extruder D=55 mm	€ 50,000.00	230,000 lei	€ 35,000.00	€ 15,000.00
10	Reconditionare Matrita Dolci 1800 mm	€ 15,000.00	69,000 lei		€ 15,000.00
	TOTAL CENTRU PROFIT3	€ 150,000.00	690,000 lei	€ 94,500.00	€ 55,500.00
11	Reorganizare spatiu –vestiare, canalizare, jaluzele	€ 35,000.00	161,000 lei		€ 35,000.00
	TOTAL CENTRU PROFIT5	€ 35,000.00	161,000 lei		€ 35,000.00
12	Masina de cusut manual New long-5 buc	€ 17,000.00	78,200 lei		€ 17,000.00
13	EXTRUDER 1500ES si 24 razboaie	€ 1,760,000.00	8,096,000 lei	€ 1,232,000.00	€ 528,000.00

	TOTAL CENTRU PROFIT 6	€ 1,777,000.00	8,174,200 lei	€ 1,232,000.00	€ 545,000.00
15	Amenajare spatii depozitare CP7	€ 285,000.00	1,311,000 lei		€ 285,000.00
16	Cuptor calcinare	€ 55,000.00	253,000 lei	€ 38,500.00	€ 16,500.00
17	Linie de regranulare Corema	€ 750,000.00	3,450,000 lei	€ 525,000.00	€ 225,000.00
18	Dozator Erema	€ 20,000.00	92,000 lei		€ 20,000.00
19	Linie de spalare-reciclare bb ,PP/PE, statie de tratare apa, amenajare spatii	€ 2,250,000.00	10,350,000 lei	€ 1,575,000.00	€ 675,000.00
	TOTAL CENTRU PROFIT 7	€ 3,360,000.00	15,456,000 lei	€ 2,138,500.00	€ 1,221,500.00
20	Motostivuitoare 1 buc CP3 – 2t-5,5m	€ 30,000.00	138,000 lei		€ 30,000.00
21	Amenajare spatii dispensar	€ 1,600.00	7,360 lei		€ 1,600.00
22	Server Atlantis	€ 10,500.00	48,300 lei		€ 10,500.00
23	Retea calculatoare	€ 45,000.00	207,000 lei		€ 45,000.00
24	Copiator	€ 1,500.00	6,900 lei		€ 1,500.00
25	Refacere hidroizolatie ST1-PT1 Iasi	€ 8,500.00	39,100 lei		€ 8,500.00
	TOTAL Ad-tiv	€ 97,100.00	446,660 lei	€ 0.00	€ 97,100.00
	TOTAL	€ 5,503,000.00	26,316,360 lei	€ 1,432,000.00	€ 2,016,600.00

Descriere investitiei propuse

➤ **CENTRU PROFIT NR. 1**

• **Cap dozare poliuretan pentru masina de dozat poliuretan Cannon**

- ✓ Valoare estimata investitie: 10.000 euro
- ✓ Este propus pentru inlocuirea capului vechi ce prezinta grad de uzura ridicat. In timpul functionarii apar dereglari ce conduc la consumuri sporite de materiale. Necesita cheltuieli mari de intretinere, cauzeaza pierderi datorate intreruperii fabricatiei (manopera si materiale) si produse neconforme.

• **Aplicator de adeziv bicomponent tip Macroplast pe capace metalice**

- ✓ Valoare estimata investitie : 40.000 euro
- ✓ Este propus pentru cresterea productivitatii operatiei care in prezent se face prin dozarea componentelor, amestecare si aplicare manuala. Aplicarea acestei solutii tehnologice va duce si la reducerea consumurilor specifice si a cresterii calitatii produselor. Principalele produse din portofoliu sunt: fisier Excel atasat.

Utilizarea acestui echipament, prin reducerea de costuri va deschide posibilitatea largirii gamei de produse cu filtre de aer de gaz natural si de ulei de mari dimensiuni, completand astfel avantajul investitiei deja realizate prin achizitionarea masinii de pliat cu lamele.

Cod filtru	cost redus dupa investitie	cost lista 18 nov	% reducer e cost	buc bugetate	reducere de cost	pret buget	%profit buget	profit buget	%profit marit	crestere a profit	valoare bugetata	profit mari
FA P2642	155,96	160,4	2,85	100	444	376,3	134,60%	50650,36	141,28%	6,68%	37630	53163
FC P960	91,51	95,97	4,88	80	356,8	197,7	106,00%	16765,26	116,04%	10,04%	15816	18353
FA P1098/D	98,78	100,68	1,92	162	307,8	139	38,06%	8570,62	40,72%	2,66%	22518	9168
FA P2643/B	52,66	54,08	2,7	200	284	150	177,37%	53210,06	184,85%	7,48%	30000	55453
FU P2553	122,81	124,57	1,43	450	792	144,35	15,88%	10314,36	17,54%	1,66%	64957,5	11393
FU P475/B	97,64	100,91	3,35	1200	3924	119,36	18,28%	26187,99	22,24%	3,96%	143232	31861
FU P475/A	103,25	106,59	3,23	1200	4008	183,19	71,86%	157977,53	77,42%	5,56%	219828	170199
FA P2551/A	104,27	106,88	2,5	300	783	266,3	149,16%	119162,27	155,39%	6,24%	79890	124144
FU P402	47,56	48,75	2,5	400	476	85,29	74,95%	25571,25	79,33%	4,38%	34116	27064
FA P1094	89,47	91,71	2,5	60	134,4	125,83	37,20%	2808,85	40,64%	3,44%	7549,8	3068
FA P864	69	70,82	2,6	60	109,2	113,56	60,35%	4112,02	64,58%	4,23%	6813,6	4400
FA P1588	134	138,08	3	40	163,2	291,8	111,33%	12994,06	117,76%	6,43%	11672	13745
FA P2169/B	103,31	106,41	3	40	124	152,25	43,08%	2623,49	47,37%	4,29%	6090	2884
FA P2650	148,21	152,66	3	60	267	733,3	380,35%	167345,73	394,77%	14,42%	43998	173691
FA P2653	267,43	275,45	3	60	481,2	476	72,81%	20794,00	77,99%	5,18%	28560	22274
FA P2427	441,3	456,75	3,5	121	1869,45	711,98	55,88%	48140,03	61,34%	5,46%	86149,58	52841
FA P2643/B	52,76	54,08	2,5	150	198	150	177,37%	39907,54	184,31%	6,94%	22500	41468
FU P545	25,57	26,21	2,5	400	256	59,27	126,14%	29904,10	131,80%	5,66%	23708	31245
FA P1836	123,13	126,21	2,5	16	49,28	209,5	65,99%	2212,09	70,15%	4,15%	3352	2351
FU P904	12,18	12,49	2,5	596	184,76	25,66	105,44%	16125,98	110,67%	5,23%	15293,36	16925
FU P906/M	41,89	42,94	2,5	126	132,3	77,04	79,41%	7708,66	83,91%	4,50%	9707,04	8145
								823.086,25				873.845,16

Rezulta o crestere a profitului valoric cu 50.758,91 lei (11.035 euro) pentru aceste filtre, conform Planului de vanzari 2014, respectiv cu 6,2%.

✓ Recuperare investitie: 3,6 ani.

➤ **CENTRU PROFIT NR. 3**

• **Infasurator coextruder Venus**

• **Pliator in 8 straturi off-line**

✓ Valoare estimata investitie 85.000 euro

✓ Necesitatea infasurarii corecte si a plierii in 8 sunt determinate de cererea pietei pentru produse de calitate. Ne referim aici la gama dimensionala 4.000-10.000 mm cu grosimi cuprinse intre 90-200 microni executate din material reciclat color si material reciclat natur, dar si la produse executate din material virgin care sa ocupe cat mai putin spatiu de transport si depozitare. In cazul transportului la distante mari pentru latimi cuprinse intre 10.000-12.000 mm se pot incarca maxim 13 tone marfa pe camion de 22 tone util. In conditiile plierii in 8 vom reusi incarcarea a 22 tone si costurile de transport pe unitate de produs pentru distante de 1500-2500 km se vor diminua cu 40%, de la 100 EUR/tona la 60 EUR/tona. Paletizarea in cazul plierii in 4 pe care o avem in acest moment este aproape imposibila in cazul comenzilor de export ce trebuie livrate pe distante foarte lungi. Livrarea rolelor nepaletizate este neacceptata de catre clientii Europei

Vestice. Consideram ca cele 2 investitii de mai sus ne vor aduce o crestere a vanzarilor de folii de la 300 tone/an 2014 la 500 tone/an 2015 si 700 tone/an 2016 si o crestere anuala a profitului de 40.000 EUR pentru produsele definite mai sus.

- ✓ Cele doua investitii ne vor ajuta sa folosim coextruderul mare cu capul mic pentru executarea foliilor din material regranulat color in vederea cresterii cantitatilor vandute catre Germania, Elvetia, Olanda. Acestea ne vor aduce cantitati mai mari cu 400 tone vandute/an si profituri mai mari cu 15.000 EUR/an (5% marja) pentru produsele din regranulat color 6000-10000 mm cu grosimi de 90-200 microni.
- ✓ Recuperarea investitiei : 1,5 ani.
 - **Extruder D=55mm**
- ✓ Valoare estimata investitie : 50.000 euro
- ✓ Incepand cu 2013 am inceput colaborarea cu firma Prodingel Elvetia care are un consum de 40 tone pe luna folii din material regranulat color de dimensiuni 2000-3000 mm care au ocupat, impreuna cu comenzile de intern deja existente, intreaga capacitate a celor 3 extrudere similare existente.
- ✓ In conditiile achizitiei unui singur extruder de acest tip putem estima o capacitate de 32 tone produse lunar cu o marja adaugata de 50 EUR/tona ceea ce inseamna un profit anual de 19.200 EUR.
- ✓ In aceste conditii investitia s-ar recupera in 2,6 ani.
 - **Reconditionare matrita 1800 mm Dolci**
- ✓ Valoare estimata investitie: 15.000 euro
- ✓ Aceasta matrita da posibilitatea realizarii foliei de 2-3 sezoane de 12 m latime cu o grosime (0,15-0,18 mm) corespunzatoare rezistentei, pe matrita utilizata in prezent de 1200 mm latime obtinandu-se grosimi de folie de 0,095-0,13 mm, grosimi nerecomandate pentru folia de 2-3 sezoane.

➤ **CENTRU PROFIT NR. 5**

- **Reorganizare spatiu**
- ✓ Valoare estimata investitie 35.000 euro
- ✓ In urma controlului Autoritatii sanitar -veterinara s-au primit recomandari de organizare a spatiului cu referire la separarea fluxului de acces personal spre si dinspre sectia de productie (prin dublarea capacitatii spatiilor pentru vestiare atat pentru femei cat si pentru barbati)
- ✓ Realizarea unei retele de drenare a apei provenite din ploii pe suprafata fostei hale de maturare pentru evitarea aparitiei stationarilor de apa pe platforma betonata.
- ✓ Dotare depozit maturare folie eps cu jaluzele in vederea protejarii rolurilor de eps de factorii de mediu.

➤ **CENTRU PROFIT NR. 6**

- **Extruder 1500ES si 24 razboaie**
- ✓ Valoare estimata investitie : 1.760.000 euro
- ✓ Necesitatea achizitionarii unor utilaje noi, performante a aparut ca urmare a faptului ca, in piata, calitatea produselor este din ce in ce mai ridicata la preturi scazute.

Avantaje:

1. Utilajele noi dau posibilitatea acoperirii comenzilor si in extrasezon prin preluarea de comenzi de la clientii externi care solicita calitate ridicata la preturi scazute.
2. Cresterea marjei de profitabilitate pe tot parcursul anului, dar mai ales in sezon, ca urmare a scaderii costurilor de productie datorata productivitatii crescute.
3. Fidelizarea unor clienti importanti care pot genera volume mari de vanzari si care sunt interesati nu numai de pret ci si de o calitate ridicata a ambalajelor (ex: AZOMURES, AGRANA etc.)

Recuperarea investitiei prin:

1 Reducerea valorii manoperei			
Denumire	Capacitate kg/zi	Valoare manopera lei/an	
Extrudere vechi(7 linii)	12.000	773.453	
Extruder nou+	8.900	229.458	
Extruder vechi(3 linii)	4.500	193.363	
Economie		350.632 lei/an	
		76.224 euro/an	
2 Reducerea consumului de energie electrica			
Denumire	Consum kw/zi	Valoare consum lei/an	
Extrudere vechi(7 linii)	7.147 €	1.003.439	
Extruder nou+	2.400 €	336.960	
Extruder vechi(3 linii)	4.000 €	561.600	
Economie		104.879 lei/an	
		22.800 euro/an	
3 Scadere cheltuieli piese de schimb			
Economie		80.000 lei/an	
		17.391 euro/an	
4 Reducerea cantitatii de deseuri			
Denumire	Cantitate estimata 2014 (tone)	Deseuri (tone)	Cost sectie semifabricat (lei)
Extrudere vechi(7 linii)	3786	75,72	
Extruder nou+	2347,32	23,47	
Extruder vechi(3 linii)	1438,68	28,77	
Economie		23,47	5,6
		131.449,92 lei	
		28.576 euro/an	
TOTAL economie 1-4		144.991 euro/an	

- ✓ La aceasta se adauga valoarea obtinuta ca urmare a uniformizarii gamei de texturi: se vor elimina diferite texturi de 550, 600,630 la pret mediu 8903,85 lei/tona si se va realiza textura de 10x10/500 cu pretul de 9119.61 lei/tona. Rezulta o economie pe an de 96.565 euro.
- ✓ Capacitatea actuala a razboaielor este: 96 razboaie x 2000 ml/zi x 30 zile = 5 760 000 ml/luna cu o productie lunara de 320,5 to/luna.

Noua capacitate va deveni:

60 razboaie vechi x 2 000ml/zi x 30 zile = 3 600 000 ml x 56g/ml = 202 to/luna

24 razboaie noi x 4 000ml/zi x 30 zile = 2 880 000 ml x 56g/ml = 161 to/luna.

Rezulta o capacitate medie lunara de 6 480 000 ml/ 363 to. Capacitatea creste cu 42,5 to/luna, ceea ce inseamna aproximativ +13%.

Scaderea costului mediu de productie estimat va fi de 6% .

Rezulta o valoare anuala obtinuta din diferenta de costuri de 186.857 euro .

- ✓ Total economii : 428.413 euro
- ✓ Recuperare investitie: 4,11 ani.

- **Masini de cusut manual NewLong – 5bucati**

- ✓ Valoare investitie : 17.000 euro
- ✓ Necesitatea achizitionarii unor noi masini de cusut deriva din faptul ca pe piata exista oportunitati din ce in ce mai mari pentru contractarea de cantitati sporite de saci tiviti. Acest lucru este vizibil inca din acest an cand am obtinut astfel de comenzi constante si de la clienti interni (de ex. AGRANA, EXPERGO etc.), fapt care a dus in unele luni la depasirea capacitatii pe aceasta operatie manuala.

➤ **CENTRU PROFIT NR. 7**

- **Amenajare spatii depozitare**

- ✓ Valoare estimata investitie: 285.000 euro

Lucrarile constau in :

- ✓ Realizarea unui depozit inchis (dimensiuni aproximative LxIxH = 24.00x10.00x6.00 m) pentru depozitarea macinaturii de polimeri aprovizionata in sistem “walking floor”; conex acestui depozit este un sistem de alimentare linie productie prin retea de benzi transportoare .
- ✓ Realizarea unei copertine (de dimensiuni relative identice cu depozitul 1) cu destinatia depozitarii deseurilor de polimeri ce pot fi afectate de umiditate.
- ✓ Amenajarea spatiului eliberat din incinta cladirii CP7, in vederea realizarii unui depozit pentru mici componente necesari activitatii de productie CP7;
- ✓ Amenajarea unei platforme betonate cu o suprafata de aproximativ 850 mp, cu rol de depozitare deseuri de polimeri care nu sunt afectate de umiditate .
- ✓ Schimbarea destinatiei magaziei, din spatiu de depozitare folie agricultura – CP3, in spatiu de depozitare macinatura deseuri polimeri aprovizionata in containere BigBag.

- ✓ Schimbarea destinației spațiului în care și-a desfășurat activitate Zentyss, prin partitionare pentru a realiza un spațiu de depozitare produse finite rezultate din activitatea CP7.
- ✓ Practicarea unei uși de acces de dimensiuni LxH = 4.00x3.00 m în actuala magazie produse finite CP3 pentru a prelua și depozitarea foliei de agricultură în role cu lungime de 3.00 m

- **Linie de regranulare Corema**

- ✓ Valoare estimată investiție : 750.000 euro
- ✓ COREMA reunește toate beneficiile de reciclare și de compoundare într-un singur sistem pentru prima dată. Aceasta tehnologie este folosită pentru a transforma materiile prime (de exemplu, PP fir, folii PE, fibre PA, etc.), într-o topitură filtrată care apoi se introduce într-un extruder dublu snec co-rotational de la Coperion. Cu proprietățile sale excelente de amestecare și de eliminare a gazelor, această parte a sistemului poate gestiona toate sarcinile de compoundare. Se poate doza o gamă largă de materiale de umplură, aditivi și agenți de ranforsare în doze mai mari decât cele posibile anterior cu sisteme de reciclare Erema.
- ✓ Luând drept exemplu produsul rPP BE5, acesta s-ar putea produce folosind o singură regranulare realizându-se o economie anuală de 102.960 euro/an, raportată la 858 tone/an.
- ✓ Achiziția acestei linii da posibilitatea abordării unei game mai largi de resurse de deseuri (termoformate, macinături cu densitate mică), exemplu, PS, pentru care există un număr de potențiali clienți cu cantități de 836 tone/an la o valoare de 718.520 euro/an (cu un profit de 10% - 71.852 euro/an)
- ✓ Recuperare investiție: 4,29 ani

- **Linie de spălare – reciclare big bag, ambalaje HDPE/PP**

- ✓ Valoare estimată investiție: 2.250.000 euro
- ✓ Instalația este capabilă să proceseze deseurile în principal din poliolefine: ambalaje HDPE/PP, big bag, filme și folii, umerase, jucării, plastic din electrocasnice mici, rezervoare, butoaie, bare auto, ladite, etichete și dopuri.
- ✓ Prin achiziția acestei linii se va deschide accesul la o sursă valoroasă de polipropilenă din big bag post-consum. În momentul de față folosim acest tip de PP în rețete de compounduri de r-PP pentru industria auto. Având în vedere cererea tot mai mare, doar pentru un client, Chimica, pentru 3-4 camioane lunar, ne confruntăm deja cu un deficit de aprovizionare. În momentul de față doar Ecofriend Aydenyz de la Medgidia, are capacitatea de a procesa deșeurile big-bag. Cu noua linie de spălare este estimată o creștere a producției de compounduri bazate pe PP -rafie de aprox. 150-200 tone / luna, care se va reflecta într-o creștere a cifrei de afaceri cu 1.2 la 1.6 milioane euro / an (în cazul în care o capacitate de 0,5 t/oră este luată în considerare)
- ✓ Recuperare investiție: 14 ani
- ✓ Recuperare investiție în cazul în care se reduc costurile cu construcția halei prin amplasarea liniei într-un spațiu existent -estimat 1,6 mil. Euro : 10 ani
- ✓ Recuperare investiție în cazul creșterii cifrei de afaceri la 2,94 mil euro/an (considerând o capacitate de 1 t/h) și valoare investiție 1,6 mil. Euro : 5,4 ani.

- **Cuptor calcinare**

- ✓ Valoare estimata investitie: 55.000 euro
- ✓ Cuptorul de calcinare indeparteaza contaminarea organica de pe reperete metalice (site, cap extruder, etc.) printr-un proces de descompunere termica sub vacuum.
- ✓ Costul pentru o tratare termica si chimica la Ettliger este de 585 euro. In cazul in care se trateaza de 20 ori/an (schimbare sita la fiecare 22 tone, 22 zile/an lucru pe produse reciclate, la o capacitate de 800 kg/h) investitia se recupereaza: 4,7 ani.

- **Dozator Erema**

- ✓ Valoare estimata investitie: 20.000 euro
- ✓ Montarea unui dozator pe extruderul Erema permite dozarea concentratului de culoare in timpul extrudarii materialului, eliminandu-se a doua faza de regranulare.
- ✓ Recuperare investitie : considerand datele -100 euro/t cost procesare Coperion* 5t/zi capacitate Erema= 500 euro/zi se poate estima ca recuperarea se face in mai putin de 1 an in functie de structura comenzilor.

➤ **LABORATOR**

- **Echipamente de masurare si monitorizare a parametrilor pentru standul de incercare la CO a MSI 94:**

rotametrul aer, traductor presiune, traductor temp. Si umiditate; inregistrator fara hartie; calculator +imprimanta, distribuitor+ program.

- ✓ Valoare estimata investitie: 15.000 euro
- ✓ Este necesara dotarea cu aceste echipamente in vederea conformarii cu normele europene - SR EN 404/2005

- **Statie de depozitare si preparare gaze speciale**

- ✓ Valoare estimata investitie: 13.500 euro
- ✓ Este necesara dotarea cu aceste echipamente in vederea conformarii cu legislatia pentru utilizare si depozitare gaze speciale.

- **Etuva**

- **Termobalanta**

- ✓ Valoare estimata investitie : 6000 euro
- ✓ Sunt necesare pentru conditionarea epruvetelor si pentru determinarea umiditatii la carbune activ

➤ **ADMINISTRATIV**

- **Electroshivuitor**

- ✓ Valoare estimata investitie : 30.000 euro
- ✓ Solicitam achizitia unui shivuitor electric pentru a reduce si simplifica cheltuielile de exploatare (de ex.: eliminare motorina) si pentru eliminarea timpilor morti din procesul tehnologic si a noxelor degajate .
- ✓ Utilizarea aceluiasi tip de shivuitor cu cele existente in alte sectoare permite folosirea bateriei de rezerva la ambele shivuitoare. In plus, shivuitoarele existente s-au dovedit fiabile si practice.

- Amenajare spatiu dispensar
 - Server Atlantis
 - Retea calculatoare
 - Copiator
 - Refacere hidroizolatie STI-PTI Iasi
- ✓ Valoare estimata investitie : 67.100 euro

➤ Va rugam sa aprobati efecturea investitiilor avand o valoare totala, conform ofertelor , de 5,503,600.00 euro in structura de finantare propusa si sa imputerniciti Directorul General si Directorul Financiar sa semneze orice acte necesare in legatura cu ducerea la indeplinire a hotararii Consiliului de Administratie .

Director General,

Ing. Andrei Radu



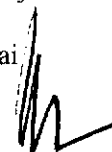
Director Financiar,

Ec. Zainescu Viorica



Director General Adjunct Tehnic,

Ing. Titi Mihai



Plan de investitii an 2014 - PROIECT-

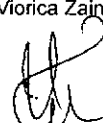
1 EURO = 4.6 RON

Nr	INVESTITII	Propuneri Plan Investitii 2014		Estimare surse de finantare 2014	
		Valoare-EURO-	Valoare-Ron-	Credit /Leasing 70%	Surse proprii
1	Completarea de masurare si montare a parametrilor pentru standul de incercare la CO a MSI 94: rotamtru aer, traductor presiune, traductor temp. Si umiditate; inregistrator fara hartie; calculator	€ 15.000,00	69.000 lei		€ 15.000,00
2	Statie de depozitare si preparare gaze speciale in conformitate cu cerintele legale, include baie termostatare pt. Lab. Central(3500 e) etapa 2	€ 13.500,00	62.100 lei		€ 13.500,00
3	Etuva	€ 2.000,00	9.200 lei		€ 2.000,00
4	Termobalanta	€ 4.000,00	18.400 lei		€ 4.000,00
	TOTAL Laborator	€ 34.500,00	158.700 lei	€ 0,00	€ 34.500,00
5	Cap dozare poliuretana pentru masina de dozat poliuretana Cannon	€ 10.000,00	46.000 lei		€ 10.000,00
6	Aplicator de adeziv bicomponent tip Macroplast pe capace metalice	€ 40.000,00	184.000 lei	€ 28.000,00	€ 12.000,00
	TOTAL CENTRU PROFIT 1	€ 50.000,00	230.000 lei	€ 28.000,00	€ 22.000,00
7	Infasurator coextruder Venus 100/100/150	€ 60.000,00	276.000 lei	€ 42.000,00	€ 18.000,00
8	Pliator in 8 off-line	€ 25.000,00	115.000 lei	€ 17.500,00	€ 7.500,00
9	Extruder D=55 mm	€ 50.000,00	230.000 lei	€ 35.000,00	€ 15.000,00
10	Reconditionare Matrita Dolci 1800 mm	€ 15.000,00	69.000 lei		€ 15.000,00
	TOTAL CENTRU PROFIT3	€ 150.000,00	690.000 lei	€ 94.500,00	€ 55.500,00
11	Reorganizare spatiu -vestiare, canalizare, jaluzele	€ 35.000,00	161.000 lei		€ 35.000,00
	TOTAL CENTRU PROFIT5	€ 35.000,00	161.000 lei		€ 35.000,00
12	Masina de cusut manual New long-5 buc	€ 17.000,00	78.200 lei		€ 17.000,00
13	EXTRUDER 1500ES si 24 razboaie	€ 1.760.000,00	8.096.000 lei	€ 1.232.000,00	€ 528.000,00
	TOTAL CENTRU PROFIT6	€ 1.777.000,00	8.174.200 lei	€ 1.232.000,00	€ 545.000,00
15	Amenajare spatii depozitare CP7	€ 285.000,00	1.311.000 lei		€ 285.000,00
16	Cuptor calcinare	€ 55.000,00	253.000 lei	€ 38.500,00	€ 16.500,00
17	Linie de regranulare Corema	€ 750.000,00	3.450.000 lei	€ 525.000,00	€ 225.000,00
18	Dozator Erema	€ 20.000,00	92.000 lei		€ 20.000,00
19	Linie de spalare-reciclare bb ,PP/PE, statie de tratare apa, amenajare spatiu	€ 2.250.000,00	10.350.000 lei	€ 1.575.000,00	€ 675.000,00
	TOTAL CENTRU PROFIT 7	€ 3.360.000,00	15.456.000 lei	€ 2.138.500,00	€ 1.221.500,00
20	Motostivuitoare 1 buc CP3 - 2t-5,5m	€ 30.000,00	138.000 lei		€ 30.000,00
21	Amenajare spatiu dispensar	€ 1.600,00	7.360 lei		€ 1.600,00
22	Server Atlantis	€ 10.500,00	48.300 lei		€ 10.500,00
23	Retea calculatoare	€ 45.000,00	207.000 lei		€ 45.000,00
24	Copiator	€ 1.500,00	6.900 lei		€ 1.500,00
25	Refacere hidroizolatie ST1-PT1 lasi	€ 8.500,00	39.100 lei		€ 8.500,00
	TOTAL Ad-tiv	€ 97.100,00	446.660 lei	€ 0,00	€ 97.100,00
	TOTAL	€ 5.503.600,00	25.316.560 lei	€ 3.493.000,00	€ 2.010.600,00

Director General,
Ing. Radu Andrei



Director Financiar,
Ec. Viorica Zainescu



Director General Adjunct Tehnic,
Ing. Mihai Titi

