



**Indústria Carbonífera Rio Deserto Ltda.**

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**W**e think beyond results. We seek to identify and implement actions that contribute to the lives of employees and their families. We want everyone to work in a safe, healthy, happy, and fulfilling environment. We know that if this happens, if this bond of willingness exists, we will be increasingly united and strong to face the daily challenges.

It is in thinking that the actions carried out with the communities, mainly where our units are located, get stronger each year. Helping others and contributing to education, culture, sport and leisure is one of our purposes. We know that tomorrow is in the hands of young people, and that is why opportunities must be offered so they can develop and become fair people and concerned about what is good for the community. Thus, we maintain several partnerships, whether with sports schools such as football and basketball, charities, and the community in general. We seek, in a wide range, always to support projects that make a difference in society.

Internally, our employees have made us proud each year in each edition of the Innovation and Quality Program (PIQ). In 2017, improvement projects were developed that have had and keep having great prominence

in the Rio Deserto Companies. For us, it is immensely satisfying to follow the dedication of the employees in studying and implementing new techniques in the sectors where they work. This shows the enormous potential of each and how much they have to contribute to the development of the company.

This innovative thought of everybody that is part of the Rio Deserto Companies, combined with technology, leads us to the concept of the new industrial age: the so-called Industry 4.0. The topic is very recurrent and highlights items such as creativity, initiative, trust and cooperation among all who are part of the organizations. Altogether, Industry 4.0 would be a "virtual mirror of the real world", making the various subsystems of a company communicate with each other and optimize the production cycle. It's something we are getting ready for.

At last, it should be noted that the actions related to innovation, technology and support to the social environment, promoted by Rio Deserto Companies, gain even more recognition for the awards they have won over the years. In 2017, the organization was honored with the Excellence Award of the Brazilian Mining and Metallurgy Industry, with the ADVB / SC Citizen Company Award, and with the title Destaque Içarense. These acknowledgments are the results of teamwork, of

partnership between employees.

That is why we are sure that with union, professionalism and integrity we will achieve our goals and will continue with the development of the company. May we continue to work in this way, because the future holds good results for everybody.

**Heitor Agenor Zanette**  
**Giovanni Pagnan Zanette**  
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**João Gabriel Pagnan Zanette**

Administrators of Rio Deserto Companies



06. : History



10. : Ideology



18. : Technology,  
Innovation,  
Safety and Quality



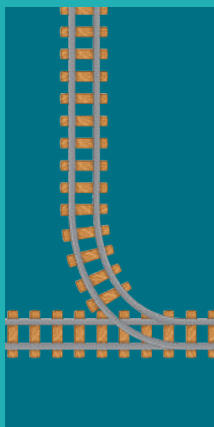
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# History

People valuing attention to the environment, adequate planning and process innovation are principles that lead all the activities of Rio Deserto Companies.

For decades it has been a symbol of solidity and experience in the carboniferous region of Southern Santa Catarina. The organization has more than 600 employees distributed in 17 production, administrative and research units.

With significant investments in technology and professionalization, as well as with a wide understanding of the need for updating and training to keep up with the present context and to remain in the future, Rio Deserto Companies have developed new techniques in order to provide products with a guaranteed quality and competitive costs. And, today, they are recognized for their respect for technical standards, for the correct treatment they give to the environment, for the importance they give their customers, employees and social

payback in the communities in which they work.

The Carboniferous Industry Rio Deserto Ltda., The company that gave rise to the group, was not only the pioneer in the exploitation of coal on an industrial scale in the region, but also the first to use more modern methods for extraction and processing, such as the use of continuous miner, lamella thickener, filter press, dense media, backfill and so on.

In addition to the coal industry, the businesses of Rio Deserto companies cover segments such as afforestation and reforestation, metallurgy, agribusiness, ceramic, among others.

The attribute of this longevity is due to the entrepreneurship of the twin brothers João and Gabriel Zanette (in memoriam). It was the courage of businessman João Zanette, combined with the knowledge of partners and employees, that the company knew how

to position itself in the market in a solid and perennial way. The progressive vision of this descendant of Italian immigrants boosted the direction and development of the company. At the head of the organization is still the Zanette family, now in the third generation.

The succession contemplated the maintenance of the main value transmitted by the twins: simplicity, emphasizing a familiar environment, that nourish the good and healthy relationship between the employees.

Currently, the Rio Deserto Companies are represented by its trustees: Heitor Agenor Zanette, Valcir José Zanette, Giovanni Pagnan Zanette and João Gabriel Pagnan Zanette, and are present in at least nine cities of Santa Catarina, with certifications in their units, according to national and international standards.





João and Gabriel Zanette - Founders of Rio Deserto Companies

# Productive, Administrative and Research Units

## Rio Deserto Companies

**Correia Pinto – SC**  
**Mineração e Pesquisa Brasileira Ltda.**  
Fonolito  
Nepheline  
Sodalite  
Filter Plus

**Lages – SC**  
**Mineração e Pesquisa Brasileira Ltda.**  
Fonolito

**Treviso – SC**  
**Indústria Carbonífera Rio Deserto Ltda.**

- **Extraction Mine Cruz de Malta**  
Power Coal  
Management System Certificate NBR ISO 9001: 2008  
and NBR ISO 14001: 2004

**Siderópolis – SC**  
**Indústria Carbonífera Rio Deserto Ltda.**

- **Metallurgical**  
Equipment for mining and maintenance
- **Boarding Box**  
Energy Charcoal for ENGIE Brasil Energia  
Management System Certificate NBR ISO 9001: 2008 and NBR ISO 14001: 2004

**Criciúma – SC**  
**Indústria Carbonífera  
Rio Deserto Ltda.**

- **Central Office**  
General Administration

- **Extraction Novo Horizonte Mine**  
Power Coal  
Management System Certificate NBR ISO 9001: 2008 and  
NBR ISO 14001: 2004

**Oriental  
Administração de  
Patrimônio Ltda.**  
Mobile goods and real  
estate





**Içara – SC**  
**Indústria Carbonífera**  
**Rio Deserto Ltda.**

• **Extraction Mine Cento e Um**  
Power Coal  
Management System Certificate NBR  
ISO 9001: 2008 and  
NBR ISO 14001: 2004

**Capivari de Baixo – SC**  
**Indústria Carbonífera**  
**Rio Deserto Ltda.**

• **Capivari de Baixo (Consortium)**  
Power Coal  
Mineral Coated Pellets (Marumbado)  
Management System Certificate NBR  
ISO 14001: 2004

**Cocal do Sul – SC**  
**Indústria Carbonífera Rio Deserto Ltda.**

• **RD São Geraldo**  
Environmental Recovery

**Floresul Florestamento e**  
**Reflorestamento Sul Ltda.**  
Eucalyptus

**Urussanga – SC**  
**Indústria Carbonífera Rio Deserto Ltda.**

• **Laboratory Division**

Chemical and physical-chemical analyzis in general. Research, development and innovation.  
Management System Certificate NBR ISO 9001: 2008  
Registered in MAPA as a provider of laboratory analysis services in the area of fertilizers, inoculants and correctives  
Environmental Certificate - Certificate of laboratory recognition for water and effluent analysis - FATMA (currently called the Environment Institute of Santa Catarina - IMA)

**RD Mineral Solutions • Production Unit II – Rio Deserto**

Industrialization of mineral supplies:  
Fuel (Coke of Calcined Oil)  
Bormix  
Pyrite  
CATA - Coal for Water Treatment Filters  
Management System Certificate NBR ISO 9001: 2008

**Mineração e Pesquisa Brasileira Ltda.**

• **Ceramics**

Nepheline  
Benpox  
RD Glas

• **Fertilizer**

Great Protect GP Plus

• **Agribusiness**

Sodalite Calcosodic  
Notox  
Notox Poultry  
Notox Reproduction  
Bugram Protect  
Great Protect Natural Insecticide  
Top Clean  
Certified GMP + B2 Production of Feed Ingredients,  
Management System Certificate NBR ISO 9001: 2008  
Ecocert certificate for organic use: Bugram Protect and Great Protect Natural Insecticide.



## Business

Supply of mineral inputs.



## Mission

To contribute to national development through the extraction, industrialization and commercialization of mineral products, transforming mineral resources into solutions.



## Vision

To be a national reference in the supply of mineral inputs.



## Values

The behavior of Rio Deserto Companies is a reflection of the thought of the country's socioeconomic development. All actions are taken towards growth, both the company and its employees, customers, suppliers, community and partners in general.

### **Innovation:**

Technological improvement, development and valorization of the employees' initiative, in search of continuous results for organization.

### **Commitment:**

With customers, employees, suppliers, Inspection agents, community and security.

### **Ethics:**

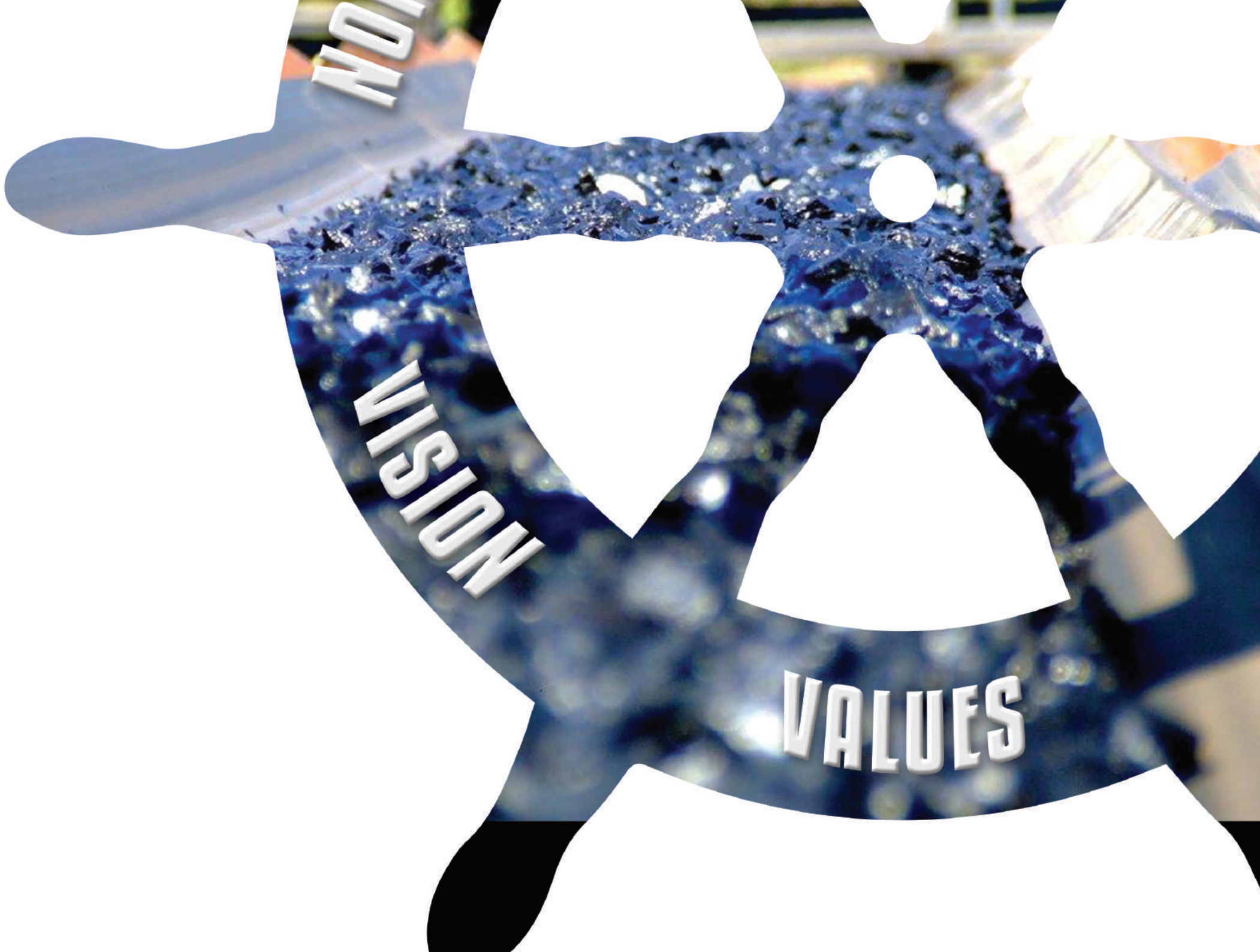
Respect of principles, policies and practices defined by the company, regulated by law and by society, working with honesty, professionalism and transparency.

**Socio-environmental Responsibility:** To contribute to the conscious and sustainable development of society, favoring the full exercise of citizenship and respecting the environment.

ADDITION

VISION

VALUES



# Products









### ► Power Line, Carbon Source, Elastomer and Sulfur



**Energy Coal:** It is obtained after the beneficiation of the ROM (Raw Coal). In the whole process are adjusted to the granulometry, the contents of ash, sulfur, volatile matter, calorific value, always according to the needs of the market.

**Application:** It is used in thermal plants, as fuel (heat source).



**Fuel:** It is the result of calcination of green petroleum coke.

**Application:** Correction of carbon (carburizing process) in iron and steel castings, of various industrial processes.



**Bormix:** Is reached through a rigorously selected and controlled charcoal.

**Application:** It is widely used as a catalytic agent for ebonite and as a semi-reinforcing charge for composing low-cost moulds, in elastomeric composites.



**Pyrite (Iron Sulphide):** Results from the selective processing of coal.

**Application:** Correction of sulfur content in cast iron as a source of sulfur.

### ► Sanitation Line



#### Coal for Water Treatment Filters

**(CATA):** Produced from specific mineral coal and controlled processes, the product has different angular particles, providing perfect filtration.

**Application:** Used in water treatment filters, increases the filtration rate, the efficiency of removal of impurities and increases the quality of water in several aspects, such as turbidity, color, coliforms and other microorganisms.



**Filter Plus:** It is manufactured from mineral rock with high percentage of silica, with characteristics of high hardness and density.

**Application:** Its main function is to improve the water quality, reducing metals, total and dissolved solids. Due to mechanical action, Filter Plus eliminates bacteria, protozoa and the small particles that stick around Filter Plus.

## ► Ceramics, Glass and Steel Line



**Phonolite:** It is a proven natural product of volcanic rocks, with high alkali content.

**Application:** In glass manufacturing. Substitute of fluorite in the manufacture of steel and ceramics.



**Nephelin:** It is a proven natural product of volcanic rocks, with high alkali content and low iron content.

**Application:** Manufacture of glass. Substitute of fluorite in the manufacture of steel and ceramics.



**Sodalite:** Proven natural product of volcanic rocks, with high alkali content.

**Application:** It improves the flowability and allows the sintering of the ceramic bodies at lower temperatures or with less amount of vitrifying agent.



**RD Glass:** Product molded by minerals that, after processing and classification, confer properties to ceramic glazes.

**Application:** They are used in ceramic enamels with a function of improving texture and fusibility.



**Benpox:** They are argillominerals that, after processing and selection, can be used industrially, as they confer intrinsic properties of technological interest to ceramic glazes.

**Application:** They are used in enamels, fattening and in masses with function of giving stability and a white color.

## ► Veterinary Line



**Top Clean:** It is a hygienic sand for cats, composed of clay, which, after processing and sizing, give characteristics of high cationic capacity. It has two versions: one with fragrance and the other without.

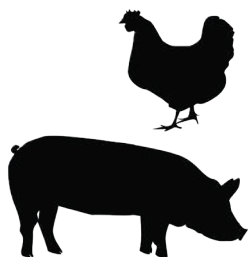
**Application:** Sanitary product intended for the adsorption of odors existing in the urine of cats. Through its cation exchange capacity, it significantly reduces the ammonia present in the urine, helping to prevent the proliferation of bad smell. When in contact with the urine of the cats, they dilate the spaces between the leaves of the chemical structure, happening a phenomenon called thixotropy, forming a gel. Due to the binder characteristic, the product allows the formation of clod.

### ► Animal Nutrition Line



**Calcosodic Sodalite:** It is an adsorbent additive of mycotoxins, composed of Calcium Aluminosilicate and sodium, tested in vivo for birds.

**Application:** Calcosodic Sodalite is a natural product destined to all species of animals. When used in the feed, it forms a highly stable complex with mycotoxins. When ingested by the animal, it adsorbs and retain the aflatoxins, inhibiting its absorption before it reaches the bloodstream, thereby eliminating its toxicity along with feces, allowing the best utilization of nutrients. The product has no odor or taste.



**Notox:** It is an adsorbent additive of mycotoxins, composed of activated sodium calcium aluminosilicate Argilomineral, tested in vivo for poultry and swine.

**Application:** Intended for all animal species, Notox is also added to the feed, being effective in combating fumonisins and aflatoxins, which can harm the health of animals. "It has no smell and taste, does not absorb vitamins, minerals and other feed additives, and does not cause side effects on the level of nutrients of the animal feeding." When ingested, it adsorbs and retains mycotoxins, inhibiting the absorption by the organism.



**Notox Poultry:** It is an adsorbent additive of broad spectrum mycotoxins, composed of special aluminosilicates and organic additives, with in vivo confirmation.

**Application:** It is a product intended for birds. When ingested by the animal, it absorbs and retains mycotoxins (zearalenone, aflatoxins, fumonisins, ochratoxins, T2 and deoxynivalenol), avoiding absorption by the organism. It has ample adsorption capacity of polar mycotoxins (through cation exchange) and apolar (through porosity and surface area), generating more stability in the adsorption of mycotoxins with different molecular weights.

**Notox Reproduction:** Product with specific characteristics. Broad spectrum additive in the fight against mycotoxins.

**Application:** Notox Reproduction (a product of innovative technology) is a broad spectrum additive effective in combating mycotoxins such as zearalenone, aflatoxins, fumonisins, ochratoxins, T2 and deoxynivalenol. The product must be used in the pigs' food and is indicated for the breeding phase. With Alkaline pH, the adsorption of Notox Reproduction begins in the mastication, passing to the stomach and then through the small intestine of the animal, where the chemical digestion and adsorption of mycotoxins continues, preventing them from reaching the bloodstream.



## ► Agriculture Line



**Gran Protect Natural Insecticide:** Product registered in the Ministry of Agriculture, Livestock and Supply (MAPA) as an inorganic contact insecticide. It is a natural inert powder, from fossilized marine diatomaceous rocks, consisting mainly of amorphous silica.

**Application:** It is a contact insecticide and should be applied by spraying the product in the grains, before entering the silos, warehouses or depots. The microscopic particles of the product adhere to the body of the insects causing abrasion in the integumento as they travel through the mass of grains, causing their death through dehydration, having the benefit of conferring prolonged protection.



**Bugram Protect:** Product registered in the Ministry of Agriculture, Livestock and Supply (MAPA) as anti-caking additive. It is a compound that comes from natural rocks and consists mainly of silica.

**Application:** For animal feed. The product acts on stored grains, bran and food, absorbing moisture and controlling fungi and toxins. Widely works as anti-aging, protecting products against damage from excessive moisture.



**Gran Protect GP Plus:** Product registered in the Ministry of Agriculture, Livestock and Supply (MAPA) as a mixed mineral fertilizer for foliar application. Contains silicon from fossilized rocks of marine diatomaceous algae, added phosphorus macronutrients in the form of phosphites and potassium, in addition to copper micronutrient.

**Application:** Gran Protect GP Plus is a homogenous suspension that acts in the maximum protection of plants, combating pests and diseases. It is applied directly to the leaves, increasing natural resistance, preventing damage and improving productivity. The product also preserves the plant from factors such as temperature, frost, drought, and the toxic action generated by agrochemicals. Gran Protect GP Plus is suitable for all crops.

# Technology, Innovation, Safety and Quality











Four main pillars form the support basis of the Rio Deserto Companies for the future: technology, innovation, safety and quality in all processes. By understanding that these areas need to be in balance for the objectives to be achieved, the organization continues to invest in improvements in research, extraction and production techniques. In 2017, the total value applied for innovation was R\$ 129,689.14. Besides the investment,

it is also highlighted that the processes of extraction of the raw material and disposal of the tailings are going through modernization, in order to comply with the norms and laws.

Currently, the main subject related to technology and innovation in the world is Industry 4.0. The term gained prominence in Germany in 2011, and aims to decentralize the control of production processes and the creation of a system of



physical-cybernetic production. This advance requires smarter, more digital machinery as well as more and more skilled professionals. Industry 4.0 allows production to be larger, but with less time and cost, and also reduces unnecessary spending.

Thinking of the coming years and the progress of the economy of the southern coal region of Santa Catarina, Rio Deserto Companies are investing in technology and in the specialization of employees. For this, the organization has a multidisciplinary engineering team, responsible for developing studies and research for the modernization of methods and equipment. The goal is to implement new processes gradually, improving production and contributing to the health, safety and well-being of all.

In the mining sector, the company has already made several advances

in the extraction and production process. Among the mechanisms applied are the Continuous Miner, Roader Header, Lamella Thickener, Dense Media, Filter Press, Industrial Mine Drain Treatment, Drills, Backfill, among others.

Rio Deserto Companies are committed to following all standards to maintain quality in their processes, products and services, especially those related to the environment. The Management Systems implemented in the units obey the requirements of the certification agents, allowing the achievement of recertifications and new certifications in national and international scope. The recognition proves the commitment and dedication of the employees, as well as the responsibility of the company with the activities performed.



## ► PIQ – Innovation and Quality Program

In 2003, Rio Desert Companies created the Innovation and Quality Program (PIQ). The initiative aims to stimulate the creativity of employees, since they can propose solutions and improvements to the processes of the units, as well as recognize the successful efforts of innovation of each team.

### PIQ TOPICS:

- Labor Lawsuits;
- Work Environment;
- Internal / external communication;
- Community;
- Waste;
- Education;
- Innovation/Creativity;
- Logistics;
- Marketing;
- Environment;
- Productivity;
- Quality (product, processes);
- Human Resources;
- Costs reduction;
- Social Responsibility;
- Reuse, recycling and recovery;
- Health;
- Safety;
- Information Technology.

#### Category 1:

Reduction of costs, waste, productivity, innovation / creativity and quality (product, processes).

#### Category 2:

Safety, health, work environment and labor lawsuits.



The V edition of the Innovation and Quality Program (PIQ) was attended by 48 teams, totaling 236 employees - equivalent to 41% of the company's effective staff. In 2016/2017, 139 projects were implemented, of which 73 were completed and evaluated. Another highlight in this edition of the PIQ was the launching of a new evaluation methodology, with the creation of four categories, with projects registered and awarded according to established criteria.

The PIQ awards ceremony is always accompanied by employees' family members. Rio Deserto Companies consider this integration of employees' families and company culture and values of fundamental importance.

#### Category 3:

Environment, reuse, recycling and recovery.

#### Category 4:

Education, internal / external communication, human resources, social responsibility, marketing, community, logistics and information technology.

► **Meet the 10 finalist projects of PIQ 2017:**  
**Category 1**

COMPANY – UNITY/SECTOR	TEAM	PROJECT
ICRDL – Extraction Unit Cento e Um	Fenix	Adapting Hoses in the Sender of the Continuous Miner Tank
ICRDL – Cruz de Malta Mine Extraction Plant	Manutenção da Tafona	Rejection Projection Rail
ICRDL – Extraction Unit Cento e Um	Galos da Madrugada	Reusing of the Continuous Miner's Fuse Axis
ICRDL – Production Unit II – Rio Deserto	Homens de Ferro	Bagger for Filter Plus

**Category 2**

COMPANY – UNITY/SECTOR	TEAM	PROJECT
ICRDL – Cruz de Malta Mine Extraction Plant	Manutenção da Tafona	Protection of the Eccentric Axis
ICRDL – Metallurgic	Trabalhar para Evoluir	Disassembly of Equipment Mounted Hoses

**Category 3**

COMPANY – UNITY/SECTOR	TEAM	PROJECT
ICRDL – Extraction Unit Cento e Um	Os Filhos da Rio Deserto	Use of P2 Powder
ICRDL – Laboratory Division	Sinergia	Rational Use of Water

## Category 4

COMPANY – UNITY/SECTOR	TEAM	PROJECT
ICRDL – Laboratory Division	Sinergia	Knowing to Understand
ICRDL – Central Office	ValoRHumano	ValoRHumano

► The winning projects of V PIQ 2017 were:



### Winner Category 1:

Phoenix Team, Cento e UM Mine Extraction Unit: project "Adapting Hoses in the sender of the Continuous Miner Tank"



### Winner Category 2:

Manutenção da Tafona Team, Cruz de Malta Extraction Unit: "Eccentric Axis Protection"



### Winner Category 3:

Team Os Filhos da Rio Deserto, Cento e UM Mine Extraction Unit: project "Use of P2 Powder"



### Winner Category 4:

Team Sinergia, Laboratory Division: "Knowing to Understand"



# Safety Programs











### Emergency Brigades

The Emergency Brigades of the Rio Deserto Companies are formed by employees trained by the Military Fire Brigade, being able to intervene in situations of risk and urgency, and to act in the prevention of accidents. The employees that integrate the Emergency Brigades of the Rio Deserto Companies go periodic improvement with a view to the best performance.

The Specialized Service in Safety Engineering and Occupational Medicine (SESMT) is responsible for the training of the Emergency Brigades of the Rio Deserto Companies. The purpose is to comply with the requirements of the Regulatory Rules, issued by the Ministry of Labor. The concepts determine requirements and protection measures, covering planning, organization and execution, in order to guarantee the health and safety of employees who perform emergency care and develop preventive actions.

### DDSS – Daily Health and Safety Dialogue

The Daily Health and Safety Dialogue (DDSS) is a practice implemented by the Rio Deserto Companies in order to prevent occupational accidents and diseases. The action is characterized by the daily realization of a quick meeting at the beginning of each shift of the productive units to clarify doubts and warn about possible risks in the workplace. Ministered by security technicians, DDSS is one of the factors that contributed to the reduction of cases of work accidents in the Rio Deserto Companies.



### SIPAT/MIN

With the theme "Innovation and Safety", the Internal Week of Prevention of Work Accidents in Mining (SIPAT / MIN) of the Rio Deserto Companies was held from November 20 to 24, 2017. For a week, employees participated in lectures and dynamics related to health and safety. The subjects covered were environmental awareness, mental health and healthy lifestyle, ergonomics at work, communication in safety and risk analysis.



## SESMT

Rio Deserto Companies maintains a Specialized Team in Safety Engineering and Occupational Medicine (SESMT) composed of engineers, technicians, doctors and other professionals. The goal is to promote the health and safety of all employees regardless of the work environment. All units also apply the participatory security management method, where each employee has responsibilities for his / her area of action, promoting self-safety and other colleagues.

In 2017, the work-related accident rate was reduced by 8.14% compared to the year 2016. Meanwhile, cases of serious accidents decreased by 40.6%.

Among the main actions carried out in 2017 are:

- ▶ Implementation of OHSAS 18001
- ▶ Standardization of the Security Management System in all units
- ▶ Training
- ▶ Adequation of equipment to NR 12
- ▶ Maintenance of the implanted controls

## Training and Development

With the objective of offering qualification to employees, Rio Deserto Companies conduct training throughout the year. In 2017, there were 78,654 hours of training aimed at professional development and specific expertise for each function.



**BRIGADA DE EMERGÊNCIA**  
EMPRESAS RIO DESERTO

COMPANY – UNITY/SECTOR	PROFESSIONAL DEVELOPMENT / SPECIALIZED IN FUNCTION (HOURS OF TRAINING)
ICRDL – Sector Caixa de Embarque	51,80
ICRDL – Central Office	186,00
ICRDL – Laboratory Division	127,31
ICRDL – Metallurgic Qualification and Specialization	1.542,50 2.160,00
ICRDL – Extraction Mine Cento e Um Qualification and Specialization	15.123,80 16.248,00
ICRDL – Extraction Mine Cruz de Malta Qualification and Specialization	12.439,71 27.400,00
ICRDL – Extraction Mine Novo Horizonte Qualification and Specialization	326,65 800,00
ICRDL – Setor São Geraldo Qualification and Specialization	152,52 400,00
ICRDL – Productive Unity II – Rio Deserto Qualification and Specialization	400,00 1.295,71
<b>TOTAL</b>	<b>78.654</b>

# Benefits, Health and Welfare









### Life Insurance

Employees of Rio Deserto Companies can have life insurance. The benefit is made available to all interested parties. The company undertakes to pay 50% of the full amount of the monthly payment, the other 50% paid by the employee monthly, through a payroll discount.



### Transportation

The Rio Deserto Companies provide transportation, with pre-established itinerary, to the employees who work in the extraction units.



### Internal Assistance

Doctors, psychologists, nursing professionals and Physical Education professionals make up the specialized health team of Rio Deserto Companies. These professionals are responsible for guiding the employees regarding health care, being carried out preventive work, periodic exams, vaccines, consultations and emergency care. In addition, specialist consultations and other tests are also referred by health care.



### Convention Clinics and Laboratories

To facilitate the access of employees and their families to medical exams, Rio Deserto Companies have agreements with laboratories and clinics. In addition to the aid, the partnership makes possible the exams for different values.



### Periodic Exams

All employees of the industrial units of Rio Deserto Companies must undergo periodic exams. The tests are done all year round and correspond to the function performed by each employee. In the list, are exams such as:

- Visual acuity;
- Audiometry;
- Spirometry;
- Clinical Examination;
- X-ray of Column;
- X-ray of Chest.



### Company Meal

For the convenience and well-being of the employees, the Rio Deserto Companies have a cafeteria in all units. Meals are provided by industrial kitchens and follow the advice of a professional nutritionist. The company is responsible for the payment of 80% of the value of the meal, the other 20% being deducted from the employee in payroll.



### **Uniform**

As a matter of standardization and organization, the Rio Deserto Companies offer uniform to employees of the productive units, being the obligatory use.



### **PPR - Profit Sharing Program**

Created for employees to have a stake in the company's results, the Rio Deserto Companies Profit Sharing Program (PPR) returned in the second half of 2017. The initiative allows for additional compensation through the achievement of established targets. In this way, it provides the recognition of the effort and dedication of each professional, generating improvements in quality, increased productivity and the search for better performances.



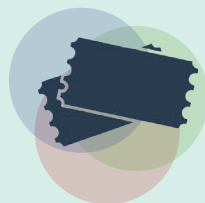
### **Health Insurance Rio Deserto Companies**

Since 2017, the employees of the Rio Deserto Companies have a health insurance that offers access to consultations, examinations and procedures with more affordable values. The company assists in the payment of the monthly payments of the employees with support that can vary from 30 to 70% of the value, according to the salary range.



### **Acicard Card**

Rio Deserto Companies offer employees the Acicard Card, which works as an exclusive credit card for the purchase of medicines. Expenses are deducted from payroll.



### **Food Aid**

The employees of the Carboniferous Industry Rio Deserto Ltda. receive, in the month of vacation, a food voucher. This benefit is valid for all units, except for the Metallurgical Unit that complies with the Metallurgists Union Convention.



### **Milk**

All employees of Rio Deserto Companies receive 24 liters of milk monthly. The benefit is the result of a trade union agreement of the Carboniferous Industries Convention. The agreement establishes the delivery of milk only to the employees who work in the extraction of coal, but the company extended the delivery to all employees.

# Education











## Education

The Coal Workers' Assistance Society (SATC) was founded in May 1959 to support workers in the coal industry as well as their families. As a result of the initiative of the Carboniferous Industry of Santa Catarina, the institution is about to turn 60 and today is called the Charitable Association of the Carboniferous Industry of Santa Catarina. A few years ago, the organization became philanthropic and nonprofit, serving the entire population.

Rio Deserto Companies, as well as the other coal companies that make up the Coal Extraction Industry Union of the State of Santa Catarina (Siecesc), collaborate with SATC, passing on approximately 1% of the revenues to the institution. The resource is used for the maintenance of the campus of Education and Technology.

After the launch of the new visual identity in 2016, the entity was formed by the Colégio SATC - which includes the Elementary, Middle, High and Technical education; by SATC College - with undergraduate, post-graduate and masters courses; by the Free Courses - with short duration training directed to the workers of the industry; and by the Clean Coal Technological Center (CTCL) - specializing in research.

With more than 7,000 students and a focus on the qualification of the labor force for the labor market, the entity also has a Language Unit (UDI) offering courses in English, Spanish and Italian.

**AMOUNT INVESTED IN EDUCATION  
BY RIO DESERTO COMPANIES**

**IN 2017:**

**R\$ 1.320.839,55**

## Scholarship

In addition to being one of the maintainers of SATC, the Rio Deserto Companies also seek education. The organization offers scholarships to employees, and can request them after two years of registration in the Carboniferous Industry. The Human Resources (HR) department is responsible for analyzing all requests, accounting for the investments made in the period and evaluating the importance of the training in view of the needs of the employee in the company.

**High School:** 100% Discount

**Technical School:** 80% Discount

**Graduation:** 80% Discount

**Post-Graduation:** 60% Discount

**Languages:** 50% Discount





# Environment







## ► Investments in recovery, afforestation and reforestation

Socio-environmental responsibility is one of the values that guide the future and development of Rio Deserto Companies. In this way, the behavior of the human being in relation to the preservation of the environment is a recurring subject in actions and campaigns carried out by the organization. Rio Deserto Companies also have a specific sector responsible for preparing studies, as well as identifying preventive measures and process innovations.

With the purpose of fulfilling the socio-environmental responsibility, the company carries out the recovery and revitalization of areas degraded by the extraction of coal. Between 2010 and 2017, almost 2.5 million square meters were recovered (part of this territory does not include the environmental liabilities of the Rio Deserto Companies).

In the last eight years, Rio Deserto's investment in recovery and revitalization of areas degraded by coal mining was R\$ 32 million. The estimate for 2018 is that more than R\$ 3 million are destined to the recovery of degraded areas.

2010: + than R\$ 5.700.000,00

2011: + than R\$ 3.333.000,00

2012: + than R\$ 2.405.000,00

2013: + than R\$ 3.806.000,00

2014: + than R\$ 4.146.000,00

2015: + than R\$ 5.700.000,00

2016: + than R\$ 4.100.000,00

2017: + than R\$ 2.900.000,00

**Total: + than R\$ 32.000.000,00**



**SIDERÓPOLIS** -> 3 million square meters of native area.

**ORLEANS** -> 5 million square meters of native area.

In 2017, therefore, the Companies Rio Deserto recovered 250 thousand square meters of degraded areas. The organization has also forested approximately 3 million square meters and currently maintains native forest areas in the cities of Orleans and Siderópolis in southern Santa Catarina.

### Complete and efficient environmental recovery process

In compliance with the requirements of the Technical Advisory Group (GTA), the recovery processes carried out by the Rio

Deserto Companies ensure the removal of the wastes in Permanent Preservation Areas (APPs), as well as the topographical conformation and waterproofing of the land with clay, channels for water conduction and recovery of soil fertility with the introduction of new vegetation.

After the processes are completed, Rio Deserto Companies continue to monitor recovery sites. Thus, visits and maintenance are carried out regularly to certify the quality of the recovery and the balance of the ecosystem, including water, animals and vegetation.



With the intention of aligning items such as economy, social environment, the processes executed by Rio Deserto Companies comply with all principles of sustainability. Often, the department responsible for the area invests in studies, providing more actions with fewer resources, due to the reuse in the production of raw materials and at the factory poles.

### Environmental Management

Always alert to the responsibilities related to environmental management, Rio Deserto Companies conduct training and lectures in order to clarify the requirements of certification agents. Throughout the year, audits are carried out in the units to improve the Management Systems in place. The organization also has national and international certifications, such as the GMP + B2 Production of Feed Ingredients. In addition, all the extraction units of the company have Environmental Management Systems certified by NBR ISO 9001: 2008 and NBR ISO 14001: 2004.



### Central of Solid Waste

The Solid Waste Management Program (PGRS) is implemented in all units of the Rio Deserto Companies. The initiative includes the collection of the waste deposited in the selective collection bins and the separation according to the classification. The waste is then collected by licensed companies.



### Effluent Treatment Plant – ETE

Effluent Treatment Stations (ETE) are installed in the extraction units of Rio Deserto Companies, which serve to treat effluents from mining, percolation of wastewater and used in support activities (toilets, cafeteria and workshops). For the procedure, techniques such as aeration, neutralization and sedimentation in waterproofed basins are used. The treated water returns to the subsoil, where it will be reused in the extraction process, preparation of the lime solution and cleaning, and it can also be used in local industry and agriculture. The surplus is released into the water resource, fully complying with the requirements of environmental legislation.

# Valorization of People





**Seja um  
doador de  
Sangue**

HEMOSC

*Sangue bom  
faz bem!*





## ► Internal Campaigns



### White January

The importance of the balance between emotional health and physical health are issues that are usually addressed during activities related to White January - a month in which actions on the mental health theme gain evidence in Rio Deserto Companies. In the year 2017, the lecture "Mente sã, Corpo sã" was given by the psychologist and human resources analyst of the company, Alice Constantino Joaquim, and by the nutritionist Luana Stangherlin. The activity took place in the Laboratory Unit, located in Urussanga (SC).



### Carnival

The medical department of Rio Deserto Companies develops awareness campaigns every year, the week before the Carnival festivities. In 2017, the professionals visited the productive units to answer questions and provide guidelines regarding Sexually Transmitted Diseases (STDs). In addition to the clarifications, condoms and informational materials on diseases were delivered, highlighting the forms of prevention.



### Vaccination

With a view to the health and well-being of employees, since 2011, the vaccination campaign against influenza, where vaccines are offered free of charge, has been carried out in all units of the Rio Deserto Companies. The action is the result of a partnership with the Social Service of Industry (Sesi), which provides nursing technicians for the application of vaccines. In 2017, 482 people were immunized, among employees and trainees.



### Campaign to combat smoking

Aiming to alert employees and the community about the harmful effects of smoking, the medical department of Rio Deserto Companies conducts an annual prevention campaign. In each unit there are orientation lectures given by health professionals. In 2017, the initiative involved 41 students from the 8th year of primary education at two schools, one from Içara and another from Treviso, Santa Catarina municipalities where the extraction units of the company are located. In the action, the students developed awareness designs that were exposed in the units and then evaluated by a committee made up of professionals from the Department of Human Resources and the company's Department of Occupational Medicine. The most creative design of each class received a special award and the other students participating in the contest also received gifts from the company.



### Labor Gymnastics

In 2017, the Rio Deserto Companies implemented the pilot project of labor gymnastics in the Metallurgical, Mina Cruz de Malta and Mina 101 units. The activities are carried out at the beginning of the shifts, with approximately 15 minutes duration. The main objective is to motivate employees to follow a healthier life and prepare them for work, avoiding the onset of muscular injuries. In addition, workout contributes to mental health, easing stress, depression, anxiety and strengthening the cognitive part of the worker.



### Good Blood Friend

In 2017, the Good Blood Friend Program of Rio Deserto Companies continued to encourage employees to donate blood. The milestone of the action was in November, when the National Volunteer Donor Day of Blood was celebrated. The initiative has the partnership of Criciúma HEMOSC.





### Pink October

Several initiatives and actions mark the Pink October in the units of the Companies Rio Deserto. The month is marked by activities dedicated to the prevention of breast and cervical cancer. In 2017, the internal campaign was carried out with the use of personalized pink t-shirts and delivery of informative material alerting to the care and treatment of diseases.



### Blue November

Encouraging employees to take care of their health is the main objective of the Rio Deserto Companies' Blue November campaign. During the month of prevention against prostate cancer, the company offers lectures on the health of the man, since they are great majority of the collaborators. In 2017, the PSA was also made available to all workers over 50 years of age and those with cases of the disease in the family.





### Yellow September

The Rio Deserto Companies understand the importance of maintaining direct contact with employees on a wide range of subjects. Thus, every year, the Yellow September Campaign is held in the units. The initiative is part of the Program for Quality of Life and Health, and highlights the prevention of suicide. In 2017, the action was done in partnership with the Center for Appreciation of Life (CVV). A lecture was also given by a representative of the Life Protection Network to the employees of the Central Office and Laboratory units.



# Internal Celebrations









The realization of actions that encourage the valuation of people is already part of the calendar of the Companies Rio Deserto. With the union of the departments, the celebrations bring the employee and family members of the organization together.



### International Women's Day

In order to celebrate International Women's Day, the Rio Deserto Companies gave all women employees the opportunity to participate in a lecture on the influences of technology in life and the changes of behavior between the generations in 2017. The event was organized by the Chamber of Women Entrepreneurs of Criciúma (CMEC) in partnership with the Brazilian Association of Human Resources (ABRH). The event took place at the Criciúma Business Association (ACIC).



### Mother's Day

"Choose to be happy" was the theme of the talk given to the employees of the Rio Deserto Companies in honor of Mother's Day in 2017. With a special coffee offered by the organization, professionals with children could talk and exchange experiences about motherhood. Mothers were also presented with a room flavoring.



### Father's Day

The emotion marked all the actions in honor of the Day of the Parents, held in the units of the Rio Deserto Companies. The Human Resources department was responsible for taking a message to all employees who are fathers. All were also presented with lanterns, symbolizing their being light in the children's lives. The initiative also highlighted the importance of living together and the participation of fathers in the education of children.



## Christmas

To mark the end of the year, Rio Deserto Companies maintains the "Designing Christmas Rio Deserto" Project, which is one of the company's best-known programs. The initiative proposes that children of employees make drawings to illustrate the company's Christmas card. In 2017, in its 4th edition, the project had the theme "Christmas and Safety" and received the registration of 57 drawings. Meet the winners of each category of the "Designing Christmas Rio Deserto 2017" project:

### Category 4 to 6 years old

#### 1<sup>st</sup> Place



**Izabelly Demenck da Silva**, daughter of the employee Edmilson Neves da Silva, from ICRDL – Extraction Unit Mina Cruz de Malta

#### 2<sup>nd</sup> Place



**Alice Demétrio Dutra**, Daughter of the employee Fabricio Damásio Dutra, ICRDL – Metallurgical Unit

### Category 7 to 9 years old

#### 1<sup>st</sup> Place



**Luiz Gabriel P. Uggioni**, son of the employee André Gustavo Puccho, from ICRDL – Extraction Unit Mina Cruz de Malta

#### 2<sup>nd</sup> Place



**Layla Schuch**, Daughter of the employee Fernando Schuch, ICRDL – Extraction Unit Mina Cruz de Malta

### Category 10 to 12 years old

#### 1<sup>st</sup> Place



**Maria Luiza Elias Pescador**, Daughter of the employee Reginaldo Pescador, ICRDL – Metallurgical Unit

#### 2<sup>nd</sup> Place



**Heitor Zanini Formanski**, son of the employee Leonardo Stachowski Formanski, from ICRDL – Extraction Unit Mina Cento e Um

# Certifications



# CERTIFICADO

BRTUV

BRASIL



AS RIO DESERTO  
**ÍFERA RIO DESERTO LTDA**  
Vargas, 515 - Centro  
Criciúma - SC - Brasil

de Gestão da Qualidade para a  
de aplicação:  
**o de carvão mineral.**

conformidade com a norma:  
**2008**

016  
018  
10  
2019  
02730

SGS Product & Process Certification declares that  
the process(es) production of feed additives  
location complies with the applicable requirements

**GMP+ I**

production of clay minerals and industrial minerals of feed  
certification is valid from January 5, 2019  
Certified with

## CERTIFICATIONS

In order to comply with the requirements of national and international certifying agents, Rio Deserto Companies adopt and respect all the measures that ensure the certifications. Professionalism, commitment to the environment and the search for improvements encourage the maintenance of certificates.

### MANAGEMENT SYSTEM CERTIFIED IN NBR ISO 9001: 2008



**Caixa de Embarque**  
Siderópolis/SC.

**Extraction Mina Cento e Um**  
Içara/SC.

**Extraction Mina Cruz de Malta**  
Treviço/SC.

**Extraction Mina Novo Horizonte**  
Criciúma/SC.



**RD Soluções Minerais**  
Urussanga/SC (Productive Unity II – Rio Deserto).



**Laboratory Division**  
Urussanga/SC.



**Mineração e Pesquisa Brasileira Ltda.**  
**Agronegócio**  
Urussanga/SC.

## MANAGEMENT SYSTEM CERTIFIED IN NBR ISO 14001: 2004



**Caixa de Embarque**  
Siderópolis/SC.

**Extraction Mina Cento e Um**  
Içara/SC.

**Extraction Mina Cruz de Malta**  
Treviso/SC.

**Extraction Mina Novo Horizonte**  
Criciúma/SC.



**Capivari de Baixo Unity**  
Capivari de Baixo/SC.



**Certified at GMP + B2 Production of Feed Ingredients**  
Mineração e Pesquisa Brasileira Ltda. Agronegócio - Urussanga/SC.



For the seventh consecutive time, Rio Deserto Companies received the Certificate of Social Responsibility of Santa Catarina, promoted by the Catarinense Legislative Assembly. The congratulation aims to identify and publicize entities with non-economic purposes and public and private companies that carry out socio-environmental actions.



Again in 2017, Rio Deserto Companies were recognized with the Certificate of Environmental Highlight (Sele Verde), delivered by the Environmental Journal of the State of São Paulo. The awards characterize the company's compliance with current environmental policies and the adoption of development practices based on preservation of the environment.



# Social and Environmental Programs

# PROGRAMA DE EDUCAÇÃO AMBIENTAL



As atividades oferecidas pelo Programa de Educação Ambiental englobam palestras, visitas em datas ecológicas, produção e divulgação de materiais educativos, oficinas, cursos, atividades de campo, trilha interpretativa e



## ► Social and Environmental Programs



### ► Içara + Sweet

To encourage trade and strengthen the region's economy, since 2010 the Rio Deserto Companies have partnered with the Beekeepers Association of Içara (API). As in previous years, in 2017, 50,000 seedlings of eucalyptus trees were donated. The project aims to encourage the production of honey.



### ► Felines of Aguaí

Aimed at protecting the environment in the southern Santa Catarina carboniferous region, with emphasis on the conservation of protected areas, which are fundamental for the protection of wild felines, the Felines do Aguaí Project is developed in the Águaí State Biological Reserve. The initiative exists since 2006 and is maintained in partnership with the Rio Deserto Companies.

The work has already been awarded at the state and national levels. In 2009, it received the Von Martius Sustainability Awards and Fritz Müller. In 2010, it was congratulated with the Citizen Company ADVB / SC and Ecology Expression awards. In 2016, it received the Prize Ser Humano SC,

in the category Socio-environmental Cases.

In addition to the education and research part carried out by the Felines of Aguaí Project, other actions that took place during 2017 were supported by professionals working on the project. This was the case of the activities of the Environment Week, with lectures and activities in the cities where the Rio Deserto Companies are located.

In 2017, Felines of Aguaí Project also made important progress, with the software Fauna Soft - a system that operates, as a database, the records obtained by the researchers in the reserve. Also in 2017, the project started to count on the aid of the radiotelemetry for the monitoring of the wild felines.



## ► Programs with social benefits

The actions aimed at solidarity have always been constant in the Rio Deserto Companies, and several projects are supported throughout the region. The socio-environmental responsibility of the organization can be identified in cultural, educational and social activities.

In addition to the projects described in this item, in the year of 2017 the Rio Deserto Companies had significant attitudes in several other actions, among them the Environment Week, the monthly support to the Bairro da Juventude, the donation of resources and / or materials to educational, cultural, sports and social events, among other initiatives.



### ► Futsal Parents and Friends Association - APAF

Believing that the sport is a mean for the education of young people, Rio Deserto Companies collaborate with the Futsal Parents and Friends Association (APAF). The monthly financial aid granted is used to maintain the project, which aims to train new athletes. With training at São Bento School in Criciúma, APAF currently has men's futsal teams from sub-6 to sub-17. From sub-6 to sub-15 teams, players participate in school and competition teams. Already from the sub-17 category, the athletes compete for the state championship representing the city of Criciúma



### ► Benevolent Association Semeando Vida

In 2017, Rio Deserto Companies maintained their support for the Semeando Vida Beneficent Association, which serves around 90 children living in the neighborhoods Ana Maria, Vida Nova, Cristo Redentor and Loteamento Girassóis, all in Criciúma. The financial contribution is used to maintain the project that offers music, volleyball and soccer classes to children aged between 8 and 16 years.



### ► Criciúma Basketball Club

Monthly, Rio Deserto Companies contribute to the Criciúma Basketball Club (CBC) through donation of financial resources. The project encourages the practice of sport through partnerships with public and private schools, with women's and men's teams from sub-12 to sub-17 and adult.



### ► Judecristi

The Rio Deserto Companies maintain a monthly financial support to Criciúma Association of the Physically Disabled (Judecristi). Founded in 1981, the institution defends the rights of people with disabilities and stimulates social inclusion through actions related to sports, culture and leisure.



► For a further year, the Rio Deserto Companies contributed financially to the Criciúma APAE. Currently, the organization maintains 280 students, from newborns to people over 60 years of age. The resource is used to maintain the institution.

# Internal Programs



PROGRAMA DE  
**ESTÁGIO**  
RIO DESERTO





### ► Winter Clothing Campaign

The intense participation of employees marked the Rio Deserto Winter clothing Campaign, held in 2017. In total, 950 items were collected, of which 896 pieces of clothing, 44 pairs of shoes, as well as blankets and other accessories were collected. The action was carried out in partnership with the Multi-Institutional Team of Criciúma. The donations were sent to families from the Vila Miguel and Rio Bonito neighborhoods, located in Criciúma, and also to residents of the Serra Catarinense.



### ► Solidarity Milk

For more than ten years, the Solidarity Milk Project has contributed to needy entities and families in the southern region of Santa Catarina. It works as follows: every month the employees of the Rio Deserto Companies receive 24 liters of milk and may choose to donate a portion. The amount donated by employees is always doubled by the company, allowing more entities to benefit. In 2017, 5,217 liters of milk were donated. The amount was enough to serve 14 institutions of six municipalities in the Carboniferous Region of Southern Santa Catarina. Also in 2017, the Solidarity Milk Project gained prominence in the state stage when it was awarded in the category of Community Participation, by the Citizen Company Award, promoted by the Association of Sales and Marketing Directors of Santa Catarina (ADVB / SC).



### ► Internship Program Rio Deserto

By understanding the meaning of education for young people and understanding the importance of entering the labor market, Rio Deserto Companies maintain the Internship Program. For more than a decade in activity, the program has been strengthened and consolidated, enabling students to complement the teaching of academic education through practical experience. In the program, trainees have the opportunity to develop skills, learn to work as a team and increase knowledge. In 2017, the Internship Program generated 37 internships, including compulsory and non-compulsory Internships. Of these, 53% were hired and, at the end of the year, the number of 15 trainees was active. It is also worth noting that the Rio Deserto Companies allow employees to internally carry out the mandatory internship to complete the training course.



### Paths & Choices

Based on the Innovation and Quality Program (PIQ), the Paths & Choices project was incorporated into the human resources sector, with its second edition in 2017, aimed at providing professional guidance to employees and / or family members. The initiative aims to support and transmit the professional choice in a conscious and safe way in deciding which profession to follow, as well as contribute in professional orientation of technical or graduation training according to preferences and abilities. The Paths & Choices of Rio Deserto Companies is directed to those who are finishing high school or attending pre-college courses.



### Development and Training of Leaders

The Program for the Development and Training of Leaders, of the Rio Deserto Companies, is conducted through meetings. The purpose is to improve skills and increase knowledge. In addition, the initiative gives employees the chance to analyze and foster their leadership skills.



### Quality of life and Health

Taking into account the health and well-being of employees, several actions and campaigns are carried out by Rio Deserto Companies during the year. They are part of the Quality of Life and Health Program, which aims to promote the health of workers, whether through laboratory tests, rapid tests, vaccines, or other activities.



### Listen to Evolve

In recent years, Rio Deserto Companies have maintained the Listen to Evolve program, which seeks to strengthen the relationship between the organization, leaders and employees. Through tools such as mood survey, termination interviews, and satisfaction surveys, the action encourages employees to express their opinions and make suggestions about the processes adopted by the company and practices in the workplace.

# Awards







 1ª EDIÇÃO PRÊMIO  
CIDADÃ  
ADVBSC

INDÚSTRIA CARBONÍFERA  
RIO DESERTO LTDA

Participação Comunitária  
Case: Projeto Leite Solidário





**19th Excellence Award of the Brazilian Mining and Metallurgy Industry**

For the fifth time, Rio Desert Companies were recognized with the Excellence Award of the Brazilian Mining and Metallurgy Industry, delivered by the Minérios & Minerales Magazine. The award-winning project in the 19th edition was "Improvement of the tool used for ceiling shoring" of the Delta Team, formed by employees of the Extraction Mine Unit 101. The study is based on the replacement of the old model of mixer used in drilling of the ceiling and the resin mixture for tie anchorage.



**Citizen Company ADVB/SC**

The Rio Deserto Companies were recognized in 2017 by the Association of Sales and Marketing Directors of Santa Catarina (ADVB / SC) with the Citizen Company Award. The project was Solidarity Milk, awarded in the category of Community Participation. The Citizen Company Award recognizes community, environmental and cultural actions developed by institutions and companies from Santa Catarina.



**Destaque Içarense**

Once again the newspaper Içarense awarded Rio Deserto Companies with the title Destaque Içarense in 2017. The award is important for recognizing and valuing the companies that contribute to the development and growth of the city of Içara. The Rio Deserto Companies have in the city the Mining Extraction Unit 101, generating approximately 300 direct jobs.



## EXTRACTION UNITS ARE CLASSIFIED AMONG THE SAFEST MINES IN BRAZIL

The Mina Cruz and Mina 101 Mine Extraction Units of Rio Deserto Companies were classified among the safest mines in Brazil as regards work safety. The evaluation, published in the 391st edition of Minérios & Minerales Magazine, used as a criteria the number of hours worked without accidents with medical leave. The assessment considers in the analysis of surface and underground mines of the whole country.

In the period from July 6, 2016 to September 30, 2017, Mina Cruz de Malta, located in Treviso (SC), recorded 459,003 hours without accidents with medical leave. The

data guaranteed the 17th place in the magazine's ranking. Mina 101, located in Içara (SC), was ranked 22nd because it presented 30,228 hours worked without accidents between September 15 and October 13, 2017. The two extraction units of Rio Deserto Companies also won the 3rd and 4th place, respectively, in the ranking of investments in environmental preservation. The Mine Extraction Unit 101 also ranked as the 5th mine in Brazil with more investments in safety programs.

According to Jonathann Nogueira Hoffmann, the engineer and work safety coordinator



of the Rio Deserto Companies, if the research evaluated only the underground mines, which represent more risks, both units of the Rio Deserto Companies would be among the five safest in Brazil. "The recognition shows that we are on the right path and that the processes the company executes follow the rules. This is not just a job for 2017, but a job of five, six years. It is a result of the encouragement of security practices, the realization of DDSS (Daily Health and Safety Dialogue), application of NR 12, involvement of all operational, administrative and other staff. We will continue to strive for improvements, adaptations and enforcement of existing controls to achieve total safety," explains Hoffmann.

For the mining engineer and manager of the Mine Extraction Unit 101, Fábio Vanzeloti da Rosa, the recognition is the result of excellence and dedication. "Being related among large companies in the 'security' category is a coronation for the work of the entire team. All the campaigns and programs implemented over the last few years have generated a culture change in an industry that has been worn out by the neglect of the past in coal mines. The Rio Desert Companies show that security is one of their strongest organizational skills and that we are on the right track," he says.





### Ethics and Behavior Code of Rio Deserto Companies

Rio Deserto Companies, committed to an ethical and transparent business environment, established their Ethics and Behavior Code in 2017. Addressing issues such as bullying, health and safety, relationships with customers and suppliers, the document aims to guide the behavior of the employees in daily activities. The Ethics and Behavior Code was delivered to all employees of the company and is also available on the organization's website ([www.riodeserto.com.br](http://www.riodeserto.com.br)).



### Internship Program Rio Deserto Guide

Also in 2017, Rio Desert Companies have launched the Internship Program Guide. The document details the current internship legislation, as well as the benefits, structure and stages of the Internship Program. The manual also provides guidelines and explanations for trainees on rights and obligations.

# RIO DESERTO COMPANIES

01/01 A 31/12/2017

## INTERNAL SOCIAL INDICATORS

FOOD  
HEALTH (MEDICAL AND HOSPITAL CARE)  
SAFETY AND HEALTH AT WORK  
EDUCATION  
TRAINING AND PROFESSIONAL DEVELOPMENT

R\$

1.439.965,35  
625.942,06  
628.046,95  
1.320.839,55  
124.340,94

## EXTERNAL SOCIAL INDICATORS

FEDERAL TAXES  
STATE TAXES  
MUNICIPAL TAXES

R\$

7.327.309,83  
4.467.773,22  
2.158.431,95

## ENVIRONMENTAL INDICATORS

COMPANY OPERATIONS  
ENVIRONMENTAL RECOVERY

R\$

2.017.392,17  
2.977.542,49



# EMPRESAS RIO DESERTO



