GENERAL INFORMATION

EXPERIENCE IN SOLID WASTE

2008
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PRESENTATION

SANTALÓ, ESTUDIOS Y PROYECTOS, S.A. DE C.V. [SEPSA], was founded in 1976 with the main objective of providing specialized technical services, to support the growth and development of Mexican industry and infrastructure.

The company was created, joining the knowledge and experience of prestigious companies and professionals in Mexican engineering and consulting.

Today, more than 30 years away from that beginning of operations, SEPSA continues showing a solid and rising path; not only in consulting and industrial projects, but also in offering specialized services to various social, environmental and productive sectors; helping, through all this time, to optimize the efficient use of the increasingly urged resources of the world in which we live.

In SEPSA, we have technical and administrative personnel, specialized in each discipline that encompass our services; personnel that updates continually their knowledge according to the scientific and technological dynamism of this time. Additionally we count with a wide portfolio of external advisors and consultants, all with high experience, preparation and recognition in different specialized fields.

With all this, we can assure the quality and versatility of the services that we offer and can say that we have proven the satisfaction of our clients needs.
SERVICES

SERVICES FOR STAGES PREVIOUS TO INVESTMENT

- Marketing studies.
- Feasibility studies and projects (technical, economic and financial).
- Business plans.
- Studies for processes and technologies selection.
- Studies for the location and the capacity definition of industrial plants.
- Project engineering for industrial plants (basic and detailed) in the following disciplines: Process, fluids, civil, architectural, mechanical, electrical and instrumentation.
- Project management.
- Project and construction evaluation.
- Project and construction supervision.
SERVICES

ENVIRONMENTAL AND INFRASTRUCTURE SERVICES

- Master plans, studies and projects for the managing, treatment, recovery and final disposal of municipal, industrial and/or hazardous waste.

- Master plans, studies and projects for hydraulic infrastructure.

- Transportation related studies and projects

- Solid waste and hydraulic infrastructure project management, supervision, administration and evaluation

- Environmental impact studies [Registration No. PSIA S62/94 at the INE (National Institute for Ecology) in the specialties of: General communication infrastructure and federal tourist developments. Chemical, petrochemical, siderurgy, paper, sugar, beverages, cement and automotive industries. Treatment and final disposal facilities of hazardous and/or radioactive waste. Power generation and electricity transmission and, Risk studies].

- Risk analysis studies.

- Environmental audits.
SERVICES

TRAINING AND CONSULTING

- Training and consulting in process re-engineering.
- Training and consulting in process optimization, operations, time and motion and industrial productivity.
- Training and consulting in environmental management.
- Strategic planning training and consulting.
- Training and consulting in Project management and evaluation.
- Training and consulting in systems and management procedures.
- Training and consulting in solid waste managing, treatment and final disposal systems.
- Training and consulting in inventories and storage buildings management.
- Cost management training and consulting.
- Training and consulting in organizational analysis.
- Training and consulting in financial management.
- Training and consulting in marketing.
SPECIFIC EXPERIENCE
IN SOLID WASTE
As the demographic and development levels of the urban and industrial centers increase, the handling, treatment and final disposal of solid and dangerous waste constitute an enormously complex problem.

That is why, according to our objectives, in SEPSA we have developed interesting experience within this problematic field of modern life. Experience related to the diagnosis of complete and particular systems; the generation identification and its quantitative and qualitative characteristics; with the solid waste management programs, plans, and system design (collection, transfer and general management, with the development of treatment and final disposal systems).

The following is a list of some of the main projects related specifically with this area that we in SEPSA have carried out:
BORDER ENVIRONMENT COOPERATION COMMISSION (BECC).
Solid waste master plan for the Coal Region of Coahuila State, basic and detailed engineering project of the sanitary landfill and environmental impact study.
Solid waste master plan for Ojinaga, Chihuahua, closure project of the solid waste open dump site, basic and detailed engineering project of the sanitary landfill and environmental impact study.
Studies for the diagnosis of basic environmental infrastructure, in solid waste and waste water matters, for the following municipalities: Ahumada, Ascensión, Coyame, Janos and Manuel Benavides in Chihuahua State.
Financial analysis for the construction of Cananea City landfill.
Closure project of the solid waste open dump site, basic and detailed engineering for the sanitary landfill and environmental impact study for Cananea City.
Closure project of the solid waste open dump site, financial analysis and environmental impact study for the sanitary landfill of Naco City.
Adaptation and modifications for de Sanitary Landfill Project of Naco, Sonora.
Solid Waste project for Ascensión y Puerto Palomas, Chihuahua.
Engineering project, Environmental Impact Study for a solid waste transfer station and a new Sanitary Landfill in Río Bravo, Tamaulipas.

DURANGO, DURANGO GOVERNMENT.
Solid waste master plan for Durango City, Dgo., basic and detailed engineering project of the sanitary landfill and environmental impact study.

ENVIR EAU DE MÉXICO, S.A. DE C.V.
Technical assistance for the “Organizational Development Program for Municipal Solid Waste Operation Offices”, of the Social Development Ministry.

ENVIRONMENT NATIONAL INSTITUTE.
(GENERAL DIRECTION OF MATERIALS, WASTE AND RISKY ACTIVITIES)
Update of national statistics involving solid waste generation, and estimation of the investment requirements for the next 15 years.
Elaboration of information packages for national and foreign companies interested in the investment on infrastructure for industrial waste management in the Central Region of Mexico.
Development of strategies for the formulation of solid waste master plans in Mexican northern border.
Study for the updating of industrial solid waste generation in Mexico
Development of methodologies and recommendations for the management and final disposal of hospitals waste.
Study for verification of the national inventory of hazardous waste generation.

GERMAN SOCIETY FOR TECHNICAL COOPERATION (GTZ)
Data processing and evaluation for the hazardous waste management metropolitan program (Mexico City urban area).

JUÁREZ, CHIH. GOVERNMENT.
Solid Waste Collection Routes plan design for Ciudad Juárez, Chihuahua.
KANPRA, S.A. DE C.V.
Solid waste master plan for Aguascalientes City, Ags., basic and detailed engineering project of the sanitary landfill and environmental impact study.
Development of methodologies for the installation of synthetic liners in sanitary landfills cells and hazardous waste confinements.

MEXICO CITY GOVERNMENT.
(GENERAL DIRECTION FOR URBAN SERVICES)
Integral functionality and operative study for the solid waste transfer station in Coyoacán.
Topographic and physical dimension survey at the solid waste transfer station in Coyoacán.
Environmental audit for the solid waste transfer station located in Miguel Hidalgo.
Environmental audit for the solid waste transfer station located in Azcapotzalco.
Study of solid waste generation and determination of recycling possibilities in residential areas located in Azcapotzalco, Cuauhtémoc, Gustavo A. Madero and Venustiano Carranza.
Environmental audit for the solid waste transfer station located in Venustiano Carranza.
Study of solid waste generation and determination of recycling possibilities in residential areas located in Cuajimalpa, Magdalena Contreras, Milpa Alta and Tláhuac.
Financial analysis study for the solid waste incinerating plant of San Juan de Aragón.
Study of solid waste generation and identification of expected levels of citizen participation in recycling programs, in residential buildings, opened areas and markets in Mexico City.
Supervision, management and projects execution of paving works in several streets of Mexico City
Technical advising and general coordination of the basic and detailed engineering of a solid waste by products selection plant, with a capacity of 4,500 tons per day.
Study of commercial, technical and economic prefeasibility of three alternatives for the treatment and/or utilization of organic solid waste generated in supply centers or large markets of Mexico City.
Study for the identification of the problems represented by potentially hazardous solid waste generated at not industrial levels within Mexico City and, recommendations for their management.
Integral study on the economic and operational aspects of a high capacity by products selection plant; including analysis of the industrial market of the main types of by products, as well as the analysis of the economic viability of various operation stages.
Study for the analysis of the collection mechanism of the quota for municipal solid waste collection, managing and final disposal, generated in commercial, industrial and similar establishments, of Mexico City.
Analysis of different proposals on alternatives of treatment of the solid waste generated in Mexico City.
Asesoría técnica y coordinación general de la ingeniería básica y de detalle de una planta de selección de subproductos de residuos sólidos, con una capacidad de 4,500 toneladas por día.
Development of optimization mathematical models, as well as processes and operation simulation, for the solid waste treatment systems of Santa Catarina, San Juan de Aragón and Bordo Poniente.
Economic analysis studies of the solid waste treatment systems of Santa Catarina, San Juan de Aragón and Bordo Poniente.
Economic, operative and simulation consulting, for the preoperative stage of the solid waste treatment plant of Bordo Poniente.
Development of operation handbooks for a recyclable recovery plant of 1,500 tons per day of capacity.
Preoperation tests evaluation at the solid waste treatment plant of Bordo Poniente.
Market research and operations simulation for solid waste by-products collection centers integrated to transfer stations.
Studies for the definition and update of industrial development strategies, for the Mexico City solid waste treatment systems.

Supervision and technical control of the equipment, installations and buildings maintenance, of the solid waste treatment plant at San Juan de Aragón.

Supervision and technical control of the equipment, installations and buildings maintenance, of the solid waste treatment plant at Bordo Poniente.

Technical and economic feasibility study, analyzing the convenience of moving San Juan de Aragón and Santa Catarina solid waste treatment plants, to Bordo Poniente final disposal site.

Unity generation study, volumetric weight and physical composition of solid waste in sidewalks and primary roads network.

**MEXICO STATE GOVERNMENT.**

**(ECOLOGY MINISTRY)**

Environmental audit for the solid waste final disposal site "Las Torres" located in Cuautitlán, Mex.

Closure project of the solid waste open dump site of Tecámac, Mex.

Closure project of the solid waste open dump site of "Las Torres" in Cuautitlán, Mex.

**MÚZQUIZ, COAHUILA GOVERNMENT.**

Engineering project for the solid waste final disposal site in Múzquiz, Coah.

**NORTH AMERICAN DEVELOPMENT BANK.**

Institutional development for Nogales solid waste department.

Modifications to the Ojinaga City landfill basic and detailed engineering.

Closure project of the solid waste open dump site and old sanitary landfill in the city of Matamoros, Tamaulipas.

**PLANS, S.A. DE C.V.**

Development of a handbook for solid waste management and final disposal in small communities.

Development of the conceptual frame for SEMARNAP’s functions and resources decentralization.

**SAN JUAN DEL RÍO, QRO. GOVERNMENT.**

Basic and detailed engineering project and environmental impact study for the sanitary landfill of San Juan del Río, Qro.

**SOCIAL DEVELOPMENT MINISTRY.**

**(SOLID WASTE DIRECTION)**

Solid waste master plan for the Mexican Republic (accomplished projects together with Paul C. Rizzo Associates Inc., that included the diagnosis of the complete solid waste systems generation, collection, transport, treatment and final disposal of 50 Mexican cities, as well as the development of preliminary designs of management and final disposal including environmental impact studies for 25 cities)

Solid waste master plan, basic and detailed engineering project and environmental impact study for the sanitary landfill of Mexicali, B. C.

Development of a handbook of financial and accounting procedures, for urban solid waste management systems.

Development of a handbook for costs management and actualization, involved in urban solid waste systems.
Solid waste master plan, basic and detailed engineering project and environmental impact study for the sanitary landfill of Manzanillo, Col.

Development of a handbook for the closure of solid waste open dump sites.

Solid waste master plan, basic and detailed engineering project and environmental impact study for the sanitary landfill of Uriangato and Moroleón, Gto.

Development of an investment projects handbook for the integral management of municipal solid waste.

Solid waste master plan, basic and detailed engineering project and environmental impact study for the sanitary landfill of Obregón City, Son.

Solid waste master plan, basic and detailed engineering project and environmental impact study for the sanitary landfill of Orizaba, Ver.

National training program for solid waste management and final disposal local operators.

Basic and detailed engineering project and environmental impact study for the sanitary landfill of Tecate, B.C.

Solid waste master plan, basic and detailed engineering project and environmental impact study for the sanitary landfill of San Cristóbal de las Casas, Chis.

Solid waste master plan for Mexicali, Baja California.

Solid waste master plan for Talcotalpan, Veracruz.

Solid waste master plan for Tijuana, Baja California.

Legislation Study for the use regulation of methane gas generated in solid waste final disposal sites.

Sanitary Landfill Project for Zacatecas, Zacatecas.

Closure Workshop for the following Pilot Project: Technologies for Landfill Methane Use.

Closure project of the solid waste open dump site and old sanitary landfill in the city of Matamoros, Tamaulipas.

Engineering Project and Environmental Impact Study for a Solid waste transfer station and a new Sanitary Landfill in Río Bravo, Tamaulipas.

Urban and Special Management Solid waste master plan for Aguascalientes, Ags.

Urban and Special Management Solid waste master plan for León, Gto.

Urban and Special Management Solid waste master plan for Chihuahua, Chih.

Urban and Special Management Solid waste master plan for Puerto Peñasco, Son.

URBAN DEVELOPMENT AND ECOLOGY MINISTRY.

(GENERAL DIRECTION FOR THE PREVENTION AND CONTROL OF ENVIRONMENTAL POLLUTION)

Feasibility study in matter of solid waste management and final disposal (including complete generation study, operative diagnosis, administrative, organizational and economical analysis, routing evaluation and redesign, possibilities of recycling analysis and general recommendations) for Villahermosa, Tab.

Feasibility study in matter of solid waste management and final disposal (including the same aspects that for Villahermosa) for Oaxaca, Oax.

Feasibility study in matter of solid waste management and final disposal (including the same aspects that for Villahermosa) for Puerto Escondido, Oax.

Basic and partial detailed engineering project of the sanitary landfill of Huilango, Mex.

Basic and partial detailed engineering project of the sanitary landfill of Tecámac, Mex.
OTROS TRABAJOS REALIZADOS
ABBOTT LABORATORIES DE MÉXICO, S.A.
Basic and detailed engineering projects in all the disciplines, for the remodeling and expansion of the tablets area in the pharmaceutical facilities of Mexico City.

ACERMEX, S.A.
Detailed engineering project of the power distribution and lighting systems, for the metallic manufacturing plant in Hidalgo State.

ADMINISTRATIVE COMMITTEE OF A CONDOMINIUM BUILDING IN MEXICO CITY
Technical study for the determination of the damages caused by the earthquake of September 19 of 1985 in the building, as well as quantification and costing of the necessary repairs.

AGRARIAN REFORMATION MINISTRY
Detailed air conditioning project for the building Nº B 4 at H. Escuela Naval Militar Ave. Nº 701, Mexico City.

AGRICULTURE AND HYDRAULIC RESOURCES MINISTRY
(MICHOACAN STATE OFFICE)
Civil, industrial, mechanical, electrical, and process detailed engineering projects for a fruit selection and packaging plant in Jungapeo, Mich.

AGRICULTURE AND HYDRAULIC RESOURCES MINISTRY
(NAYARIT STATE OFFICE)
Marketing, technical, economic and financial feasibility studies, for the transfer of the Agroindustrial Complex of San Francisco, Nay, to the Unión de Ejidos Bahía de Banderas.

AGRICULTURE AND HYDRAULIC RESOURCES MINISTRY
(GENERAL DIRECTION FOR THE AGROINDUSTRIAL DEVELOPMENT)
Marketing, technical, economic and financial feasibility studies, for the creation of a slaughterhouse Federal Inspection Type (TIF) for bovine cattle in the State of Chi.
Marketing, technical, economic and financial feasibility studies, for the creation of a slaughterhouse Federal Inspection Type (TIF) for bovine cattle in Tuxtepec, Oax.
Marketing, technical, economic and financial feasibility studies, for the creation of a slaughterhouse Federal Inspection Type (TIF) for bovine cattle in Pinotepa Nacional, Oax.
Marketing, technical, economic and financial feasibility studies, for the creation of a slaughterhouse Federal Inspection Type (TIF) for bovine cattle in Juchitán, Oax.
Diagnosis study of the bovine cattle production in Oaxaca State.

ALDAMA, TAMAULIPAS CATTLE ASSOCIATION.
Marketing, technical, economic and financial feasibility studies, for the establishment of a Federal Inspection Type (TIF) slaughterhouse in Tamaulipas State.

ALMACENES NACIONALES DE DEPÓSITO, S.A.
Detailed engineering project and technical specifications of equipment, for the mechanization of the grain storage warehouses in Cuernavaca, Mor.; Irapuato, Gto. and Morelia, Mich.
Detailed electrical engineering project for the mechanization of the grain storage warehouses in Irapuato, Gto.; Morelia, Mich.; Cuernavaca, Mor.; Saltillo, Coah. and Gómez Palacio, Dgo.

**AUTOPLAS, S.A.**
Structure calculations review in a cars plastic accessories plant in San Luis Potosí, S.L.P.

**BLANCO ACTIVIDAD COMERCIAL, S.A. DE C.V.**
Redesign of the organizational structure of the company, and development of organizational manuals.

**BODEGAS RURALES CONASUPO, S. A. DE C.V.**
Structural analysis and design, of a prototype project for the construction of a grains storage warehouse of 3,000 tons of capacity.
Structural calculations review and project redesign of a grains storage warehouse in Hecelchakam, Camp.

**BUFETE DE ARQUITECTOS Y URBANISTAS, S.A. DE C.V.**
Environmental impact study for a general hospital in Morelos State.

**CALEFACCIÓN Y VENTILACIÓN, S.A. DE C.V.**
Environmental impact study for a factory and a warehouse in Mexico City
Environmental impact study for a factory and warehouse enlargement.

**CANNUMEX, S.A. DE C.V.**
Management services for equipment and materials purchases, as well as follow-up of equipment construction, for the C.F.E.’s nucleoelectrical program.

**CAPRE, S.A.**
Review of the civil engineering project of the metallic manufacturing plant in Tlalnepantla, Mex.

**CELANESE MEXICANA, S.A. DE C.V.**
Detailed engineering project, for the facilities supply (water, steam, electrical energy, etc.) to the high density polypropylene film plant in Zacapu, Mich.
Complement of detailed engineering in all the disciplines, for the internal residence area, in the petrochemical complex of Coatzacoalcos, Ver.
Conceptual, basic and detailed engineering projects, for the relocation of a plastics extruding plant to the industrial complex at Zacapu, Mich.

**CEMENTOS ANÁHUAC, S.A. DE C.V.**
Design of a cement pneumatic conveying, as well as a trail conveyor system, for the plant in Barrientos Tlalnepantla, Mex.

**CEMENTOS APASCO, S.A. DE C.V.**
Detailed electrical and of pipe design projects for the cement plant in Macuspana, Tab.
CEMENTOS MEXICANOS, S.A. DE C.V.
Detailed mechanical and electrical engineering projects, of the automatic raw materials conveyors systems for the asbestos-cement pipes plant in Monterrey.
Structural engineering project for supports and cement ducts, for the plant of Monterrey, N. L.

CENTER FOR THE DEVELOPMENT OF THE ENTREPRENEURIAL COMPETITIVENESS (CETRO)
Specialized training services in their programs of “Internal Consultants Development” and, “External Consultants Training”.
Development of the methodology for specialized consulting to groups of small companies, into the CETRO-CRECE web.

CLARIANT MÉXICO, S.A. DE C.V.
Physical dimension survey and redesign of waste eater homogenization tanks in the plant at Santa Clara, Mex.
Physical dimension survey and drawings for one of the process lines in the plant at Santa Clara, Mex.
Technical assistance for the environmental laboratory in the plant at Santa Clara, Mex.

CLIMAS ARTIFICIALES SANTALÓ, S.A. DE C.V.
Pipelines and ducts quantification, for the air conditioning installation in a "four star" hotel in Manzanillo, Col.
Detailed air conditioning project for a "five star" hotel in Playa de la Audiencia, Col.

CLUB AQUAVIDA, S.C.
Marketing, economic and financial feasibility studies for the installation of a gym in Mexico City northern area.

CODINSA
Marketing, technical, economic and financial feasibility studies, for the installation of a plant of dairy products in Ixhuatlancillo, Ver.

COMMUNICATIONS AND TRANSPORTS MINISTRY
(PHUALING GENERAL DIRECTION)
Study for the identification of the national industrial development restrictions in transportation matter, related to the general communication infrastructure.
Study for the determination of the infrastructure problems in industrial corridors, related to the operation of the national transportation systems.

COMMUNICATIONS AND TRANSPORTS MINISTRY
(RAILROADS GENERAL DIRECTION)
Civil and structural detailed engineering projects, for different superior and inferior railroad crossings.

COMMUNICATIONS AND TRANSPORTS MINISTRY
(DIRECTION FOR THE BROADCASTING SYSTEMS REGULATION)
Marketing study for the establishment of radio and television stations in the Mexican Republic.
COMPAÑÍA DE REAL DEL MONTE Y PACHUCA, S.A. DE C.V.
Detailed engineering project for a gross mineral mill foundation in the benefit plant of Pachuca, Hgo.
Design of the floating pumping system of the internal dam in the plant of Pachuca, Hgo.

COMPAÑÍA GALLETERA SOLY, S.A.
Production and productivity studies for the cookies factory in Mexico City.

COMPAÑÍA GALVANIZADORA NACIONAL, S.A.
Technical feasibility study for the remodeling of the galvanizing plant in Tlanepantla, Mex.
Conceptual, basic and detailed engineering projects, for the plant remodeling in Tlanepantla, Mex.

COMPAÑÍA INDUSTRIAL DE SAN CRISTOBAL, S.A.
Detailed engineering projects in all their disciplines, as well as special equipment design, for a cane bagasse packer plant in Atencingo, Pue.

COMPAÑÍA MINERA AUTLÁN, S.A. DE C.V.
Soils mechanics study, for the accomplishment of the design engineering for the installation of a dust collector in the unit of Molango, Hgo.
Civil, structural and electrical design engineering projects, for the installation of a dust collector in the plant of Molango, Hgo.
Civil work related to equipment foundations, preparations and construction of containment walls, motor control center, cleavers and dust rooms, in the modifications of the manganese nodules plant in Molango, Hgo., for the installation of the dust collector system.
Structures for ducts manufacture and assembly, in the dust collector system of the unit of Molango, Hgo.
Construction of high tension line, for the energizing of the dust collector system of the unit of Molango, Hgo.
Construction, equipment erection, and general installation of the power, lighting, compressed air and control systems, for the modifications of the manganese nodules plant in Molango, Hgo.

CONFRONTACIÓN, S.C.
Environmental impact study for a medical center at Metepec, Mexico.
Environmental impact study for a hospital at Nezahualcóyotl, Mexico.
Environmental impact study for a medical center at Zumpango, Mexico.

CONSORCIO MANUFACTURERO, S.A.
Process and engineering analysis of methods for the increase in productivity in the factory of compressors in Atizapán de Zaragoza, Mex.
Scheduling services for the electromechanical and machinery movement of the compressors plant in Atizapán de Zaragoza, Mex.

CONSORCIO MANUFACTURERO DE SAN LUIS, S.A.
Mechanical, electrical and other facilities design engineering projects, for the plant in San Luis Potosí, S.L.P.; as well as an expansion to the auxiliary services area.
CONSTRUMEX, S.A. DE C.V.
Marketing and economic feasibility study, of a parking lot building in the South of Mexico City.
Marketing study for a housing development at Colonia Portales in México City.
Marketing study for a housing development at Fraccionamiento Lomas Country in Huixquilucan, Estado de México.
Environmental impact study for a housing development at Colonia Portales in México City.

CONSTRUCTORA TEYA, S.A. DE C.V.
Regional Impact study (Water existence and resources report, Civil Defense Report, Environmental impact and risk evaluation and Incorporation and Vehicle transit Impact Report) for the construction of a ISEM Hospital in Toluca, Edo de Mex.

CONSTRUCCIONES INDUSTRIALES SANTALÓ, S.A. DE C.V.
Detailed drawings for the amplification of a manufacturing plant in San Luis Potosí State.

CONTROL DE USOS DE AGUA, S.A.
Marketing study of ecological and environmental services in Mexico.
Environmental risk study, of the company operations.

CORPORACIÓN ATSA, S.A. DE C.V.
Civil and structural engineering project, for a calcium carbonate (for the paper industry) plant in San Juan del Río, Qro.

CO₂ DE MÉXICO, S.A. DE C.V.
Basic and detailed engineering projects for the CO₂ separation and compression plant expansion in Coatzacoalcos, Ver.
Complement of the basic engineering project, as well as detailed engineering projects in all the disciplines, for the expansion of the plant of calcium carbonate in Cuautitlán, Mex.
Procurement services for the CO₂ separation and compression plant expansion in Coatzacoalcos, Ver.

CRYO-INFRA, S.A.
Detailed engineering project, in the pipelines discipline, for the air separation plant of Coatzacoalcos, Ver.

DAMM-ROMITA DE MÉXICO S.A. DE C.V.
Environmental Impact study for their new electronic card marketing office in San Pedro de los Pinos, D. F.

DESARROLLADORA DE VIVIENDA DE VARDE, S.A. DE C.V.
Environmental impact study for a housing development at Colonia Campestre Aragón in Mexico City.
**DESARROLLO Y TECNOLOGÍA, A.C.**
Conceptual engineering project, for an automotive vehicles trim plant in Hidalgo State.

**DESARROLLOS TECNOLÓGICOS MEXICANOS, S.A.**
Marketing and technical study to find technical and commercially viable alternatives for pasteurized milk containers.
Survey and as-built drawings of a pasteurizing and milk canned plant in Hidalgo State.

**DIDEA DEL TRÓPICO, A.C.**
Pipelines and instrumentation detailed engineering projects for a decaffeinated coffee processing plant in Coatepec, Ver.

**DIN INGENIEROS, S.A.**
Commercial, technical, economic and financial feasibility study, to establish a hotel in Ixtapa, Zihuatanejo.
Socio economic study for Chihuahua State.
Detailed engineering projects for the hydraulic, sanitary and other facilities, for a building and some laboratories in Mexico, D. F.

**DISCOS MELODY, S.A.**
Analysis of the information systems, as well as the viability of mechanizing them.

**DISTRIBUIDORA KAY, S.A. DE C.V.**
Marketing, technical, economic and financial feasibility study, for the establishment of a factory for the production of protection canvases and plastic greenhouses, in Santo Toribio, Tlax.
Detailed engineering for a solvents extraction systems, in a stamping plant.
Construction of a print area, and installation of a gases extraction system, in the plant located in Mexico City.
Repairs in a roofed area, by damages suffered by a hailstone; including the reinforcement of the support structure.
Metallic plate ceiling water proofing, as well as manufacture and installation of the waters receipt pluvial roof gutter.

**EDIFICACIÓN E INFRAESTRUCTURA, S.A. DE C.V.**
Technical analysis of accomplished and to be done work, in a buses parking lot in Ecatepec, Mex.

**EL NUEVO MUNDO MÉXICO, S.A. DE C.V.**
Soils mechanics study for the establishment of the project of a parking lot in Mexico City's Historic Downtown.
Demolition project of a building in Mexico City's Historic Downtown.
Detailed engineering project for the construction of a parking lot in Mexico City.

**ELABORADORA DE MATERIAS PRIMAS, S.A. DE C.V.**
Study to update the electrical power distribution and protection system of the facilities in Cuernavaca, Morelos.
Engineering and drawing development, for the update of the electrical facilities of the plant in CIVAC, Morelos.

**ELECTRICITY FEDERAL COMMISSION (CFE)**
Detailed civil and structural project of the powerhouse of the thermoelectric plant of Nava, Coah.

**ENVIRONMENT AND NATURAL RESOURCES MINISTRY**
Development of a follow up and evaluation system of their function decentralization program.

**FABRICACIONES, INGENIERÍA Y MONTAJES, S.A. DE C.V.**
Quantity analysis of materials of lighting, contacts, power, control, grounds and lightningrod systems, for the expansion of an electronic products plant in Guadalajara, Jal.

**FÁBRICAS DE PAPEL LORETO Y PEÑA POBRE, S.A.**
Consulting services for the planning of the paper production facilities.

**FÁBRICAS DE PAPEL SAN RAFAEL, S.A.**
Economic study for the determination of real human resources requirements for the quality control department.

**FERTILIZANTES MEXICANOS, S.A.**
Basic and detailed engineering projects in all the disciplines, for the solids handling system and fine materials conveyors area, in the industrial complex of Cd. Lázaro Cárdenas, Mich.

**FIDEICOMISO DE FOMENTO MINERO**
Studies of the international and national markets of dimensionable rocks (marble, granite and onyx), limestone and plaster.

**FIDEICOMISO LÁZARO CÁRDENAS**
Technical, economic and financial feasibility study, for the creation of a processing lime plant in Guerrero State.

**FILORAMA, S.A.**
Physical distribution survey and elaboration of detailed drawings, of the compressed air system.

**FINANCIERA NACIONAL AZUCARERA, S.A.**
*(FIDEICOMISSUM FOR THE SUGAR INDUSTRY WORKERS HOUSE CONSTRUCTION)*
Feasibility study for the creation of a plant, for the production of specific components for residence construction.

**GENERAL FOODS DE MÉXICO, S.A. DE C.V.**
Design and construction of a shed, for the parking lot of the Vallejo plant, Mexico City.
Shed construction for parking area, as well as pipelines supports and, movement of vigilance cabin, in the plant of Vallejo, Mexico City.
Demolition of granite floor tile and placement of concrete floor, in various areas of the plant of Vallejo, Mexico City.

GRES, S.A.
Civil engineering project for the floor tile plant in Tlaxcala, Tlax.

GRUPO CINÉTICA DE PROYECTOS, S.A. DE C.V.
Detailed engineering review of a grain storage warehouse in Guadalajara, Jal.
Mechanical detailed engineering review of some grain storage warehouses in Saltillo, Coah. and Gómez Palacio, Dgo.

GRUPO BULMAR S.A. DE C.V.
Environmental Impact study for a housing complex of 24 low income housing in Algarín, D. F.

GRUPO DEMSA
Technical, economic and financial prefeasibility study for a paper plant with 60 tons of capacity.

GRUPO MINSIA, S.A. DE C.V.
Soils mechanics study for various areas of the plant located in Tlalnepantla, Mex.
Structural analysis and detailed project of the appropriateness of a four level building to sustain a storage silo.
Civil, electrical and pipelines detailed engineering project, for a dehydrated corn production line, with a capacity of 4.0 ton/hr, in the plant of Tlalnepantla, Mex.
Supervision services of electromechanical and civil works for a packed tortilla plant in Tlalnepantla, Mex.

GRUPO FINANCIERO INTERACCIONES, S.A.
Technical and economic feasibility studies for government contracts financing projects.

GRUPO PROMETALIC, S.A. DE C.V.
Consulting services in costs management and process improvement.

GRUPO SANTILLANA, S.A. DE C.V.
Conceptual engineering for the optimization and redistribution of their warehouse and distribution center.
Analysis of the phonographic material distribution market in Mexico.
Services for the process systemizing of their warehouse and distribution center.
Analysis of the book distribution market in Mexico.
General analysis of the English and computing schools national market.

GRUPO TRICO
Marketing study (national ad international) of jams and marmalades.
Development of all their operational, production and administrative manuals.
HOTEL DEL BOSQUE
Operational analysis of the hotel operation in Mexico City.

HUMAN SETTLEMENTS AND PUBLIC WORKS MINISTRY
Complete feasibility study for the Zacatecas Airport.
Technical advising and construction supervision for the “Programa de Remodelación Integral de Cabeceras Municipales (Plan Echeverría) at Mexico State.

ICA INDUSTRIAL INGENIERÍA, S.A. DE C.V.
Review, calculation and drawing of lighting, contacts and earth systems, for a carbon complex in Lázaro Cárdenas, Mich.
Elaboration of shop drawings for several conveyor structures.
Calculations review in different process drawings.

IMMACULATE CONCEPTION CHURCH
Civil and structural project for the church chapel.

INDUSTRIAL MINERA MÉXICO, S.A. DE C.V.
Provisional works engineering project, for the zinc benefit plant in Torreón, Coah.
Detailed engineering projects in all the disciplines, for a 20 coke ovens battery in Nueva Rosita, Coah.
Basic engineering project, for a silver and zinc plant in San Martín Sombrerete, Zac.
Detailed engineering projects in all the disciplines, for the zinc and silver benefit plant, in San Martín Sombrerete, Zac.
Detailed engineering project, for a water wells pumping system of the benefit plant in San Martín Sombrerete, Zac.
Preliminary specifications formulation, as well as suppliers and contractors selection, in several projects for the plant of zinc benefit in Torreón, Coah.

INDUSTRIAS CONASUPO, S.A.
Costs control study and work supervision, for the seed oil hydrogenating plant in Tultitlán, Mex.

INDUSTRIAS DE PLÁSTICOS MAKEMAC, S.A. DE C.V.
Partial detailed engineering project for a warehouse in Tultitlán, Mex.

INDUSTRIAS FORESTALES DE GUERRERO O.P.P.S.
Study for the determination of unit and total costs, as well as cost functions, for a wood industrial complex located in Papanoa, Gro.

INDUSTRIAS MONFEL, S.A. DE C.V.
Review, complementary engineering and drawings of pipeline for the movement of the plant to San Luis Potosí.

INDUSTRIAS PERLAV, S.A. DE C.V.
Investments and production costs estimate for an optical resins plant.
ING. JAIME O’GORMAN GURZA
Environmental impact study for a new factory and a warehouse for a new trailer assembling company in “San Jacinto” Industrial Park, in Minas de Cristo, D. F.

INMOBILIARIA GIESHUBA, S.A. DE C.V.
Feasibility study for a specialized hospital to be established in Mexico City.

INMUEBLES ALGAL, S.A. DE C.V.
Marketing, economic and financial studies for several real estate projects in Mexico City.

INMUEBLES Y NEGOCIOS GZ, S.A. DE C.V.
Financial Study for a building in Colonia del Valle de la Ciudad de México.

INSTITUTE FOR HEALTH INNOVATION, S.C.
Market feasibility and financial study for a Hospital in Zitácuaro, Michoacán.

INTERNATIONAL FINANCE CORPORATION (WORLD BANK GROUP)
Business Environment Improvement in Mexico City. Administrative Process Re-engineering related to Opening a Business in Mexico City.
Business Environment Improvement in Mexico City. Administrative Process Re-engineering related to Obtaining a Construction License in Mexico City.

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
Technical cooperation in a study for training and certification of consultants for small and medium enterprises.

LABORATORIOS JULIÁN DE MÉXICO, S.A. DE C.V.
Study for the determination of the real conditions of the paved streets at the plant of Cuernavaca, Mor., as well as recommendations for their better performance.
Complete study of the electrical power distribution and protection system of the pharmaceutical plant at Cuernavaca, Mor.
Structural analysis for the erection of a new reactor, on the production platform of the pharmaceutical plant in Cuernavaca, Mor.
Development of conceptual, basic and detailed engineering projects for different expansions of the plant in Cuernavaca, Mor.
Review and redesign of the electrical system of the plant of Cuernavaca, Mor.
Integral management services of purchases, materials and equipment follow-up, planning, supervision and work control, for different plant expansions in Cuernavaca, Mor.

LATINOAMERICANA DE CABLES, S.A.
Civil and structural engineering project, of their office buildings in San Luis Potosí, S.L.P.
LATINOAMERICANA DE INGENIERÍA, S.A.

LECHE INDUSTRIALIZADA CONASUPO, S.A. DE C.V.
Feasibility study for the acquisition and utilization of a dairy plant in Jalostotitlán, Jal.
Marketing study and technical, economic and financial feasibility study, for the creation of an evaporated milk plant.
Basic and detailed engineering projects for a modification of the dairy industrial plant of Jiquilpan, Mich.
Basic engineering project for a hydrated powdered milk plant with capacity of 1'000,000 liters/day.
Conceptual engineering project for an evaporated milk (dual service: raw or powdered milk input) plant.

LINDE, A.G.
Civil, structural and electrical detailed engineering projects for two oxygen separation plants (PEMEX) in Veracruz State.
Civil, structural, electrical and air conditioning detailed engineering projects, for an air separation plant in La Cangrejera, Ver.

LUBRIMEX, S.A. DE C.V. (SHELL)
Detailed engineering projects in all the disciplines, for the motor oils plant in León, Gto.
Materials and equipment procurement services, for the first stage of their motor oils plant in León, Gto.
Construction supervision, for the first stage facilities of their motor oils plant.
Industrial building and storeyard construction, of the first stage of their motor oils plant in León, Gto.

MAIZ INDUSTRIALIZADO CONASUPO, S.A. DE C.V.
Detailed engineering projects in all the disciplines, for a corn flour plant in Tlaxcoapan, Hgo.
Electrical, pipelines and instrumentation detailed engineering projects, for new buildings in the plant of Tlanepantla, Mex.

MANUFACTURAS METALICAS LIMÓN, S.A.
Detailed engineering and structural review, of the storage and manufacture buildings of the automotive bodies plant in Naucalpan, Mex.

MEXICAN DIABETES FEDERATION
Study for the determination of the real social and economic implications of Diabetes Mellitus in the Mexican Republic.

MEXICANA DE COBRE, S.A.
Complementary detailed engineering, for the copper concentration plant in the mining and metallurgical complex of Nacoza, Son.
Detailed engineering in site, for a lime producing plant in Agua Prieta, Son.
Completion of the detailed engineering of the copper smelting plant in El Tajo, Son.
Construction and electromechanical erection supervision, as well as instrument calibration and sequence, for the mining metallurgical complex in Nacozari, Son.

**MEXICANA DE TRACTORES, S.A.**
Basic and detailed engineering projects for a plant of maintenance and storage services for construction equipment in Los Reyes, Mex.

**MEXICO CITY GOVERNMENT (GENERAL DIRECTION FOR URBAN SERVICES)**
Supervision, management and projects execution of paving works in several streets of Mexico City.

**MICONSA GUERRERO, S.A. DE C.V.**
Construction of a general project model for the plant in Acapulco, Guerrero.
Architectural project of the plant in Acapulco, Guerrero.

**MICRO, S.A.**
Basic engineering project for a waste water treatment system in the plant of Cuautitlán, Mex.

**MITSUBISHI ELECTRIC, Co.**
Civil and electrical detailed engineering project, for a communications by satellite station in Tulancingo, Hidalgo.

**NACIONAL AEROSTÁTICO, S.A.**
Calculation of the wing skin thickness of a prototype airplane.

**NACIONAL FINANCIERA, S.A.**
Evaluation of the forge and smelting market for pieces from 500 kgs. up to 40 tons.

**NATIONAL FUND INSTITUTE FOR THE WORKERS HOUSING**
Urbanization project that included divisions outlines, roads and urban equipment, for low income housing of the Infonavit in Cuautitlán Izcalli, for 20,400 housings.

**NATIONAL GOODS APPRAISAL COMMISSION**
“Administration and Public Management” and “Public Service quality and innovation” courses.
Organization Re-desing Study.
Management Pointers for the establishment of an evaluation outline about regional delegations operations.

**NUEVAS TECNICAS EDUCATIVAS, S.A.**
Engineering project for an air washing and conditioning system, in various zones of their offices in Mexico City.
Assembly and installation of an air washing and conditioning system, in various areas of their offices in Col. del Valle, Mexico City.
PEISA INGENIERÍA DE PROCESOS, S.A.
Development of detailed engineering in the pipelines discipline, for a plant of the food industry.
Civil and pipelines detailed engineering project, for the remodeling first stage of a paper plant in Atenquique, Jal.

PETROLEOS MEXICANOS, S.A.
Study for the evaluation of the efficiency of the combined cycle of steam generation with gas steam, in the turbogenerators area of the Lázaro Cárdenas refining plant at Minatitlán, Ver.
Detailed engineering projects in all the specialties, for the thermoelectric plant No. 3 of the refinery Lázaro Cárdenas in Minatitlán, Ver.
Detailed engineering project for the expansion of propane spherical storage tanks area, in the refinery of Salamanca, Gto.
Projects of detailed engineering in all the disciplines, for the gas and distilled reception, storage and distribution terminals in: León, Gto; Guadalajara, Jal; Tierra Blanca, Ver; Topolobampo, Sin; Guamuchil, Sin and Mazatlán, Sin.
Civil, architectural, mechanical and electrical, detailed engineering projects for the thermoelectric plant N° 2 of the refinery Lázaro Cárdenas in Minatitlán, Ver.
Materials and equipment procurement services, for the propane and ammonia receipt and storage terminal in Topolobampo, Sinaloa.
Materials, services and process equipment purchases and follow-up, for the thermoelectric plant N° 2 of the refinery Lázaro Cárdenas in Minatitlán, Ver.

POLIOLES, S.A.
Elaboration of technical and economic analysis, of different equipment for waste water treatment.

PROCESOS E INGENIERÍA, S.A.
Staff services for the development of the basic engineering of a potassium sulfate plant in Guerrero Negro, B. C. S.

PRODUCTORA DE ARTÍCULOS DE CELULOSA KEYES, S.A.
Detailed engineering project for the expansion of the cellulose recycled articles plant in Cuernavaca, Mor.
Detailed engineering for the construction of the fences of the plant in Cuernavaca, Mor.
Construction of a platform and walkways, as well as structural bases, for a warehouse in Mexico City.
Completion and finishing work in their warehouse offices in Mexico City.

PRODUCTOS CRISTALUM, S.A. DE C.V.
Analysis of the company’s productive systems and definition of strategies for their development.

PRODUCTOS QUÍMICOS NATURALES, S.A. DE C.V.
Civil, architectural, mechanical, pipelines, electrical and instrumentation detailed engineering, for the expansion of their pharmaceutical products pilot plant in Ixtaczoquitlán, Ver.

PROFESIONALES EN AVALÚOS, S.A.
Development of a work methodology, as well as information handling system for a valuations company.
Design of computerized systems for the managing of industrial machinery and equipment valuations.
PROMO INFLABLES EURO, S.A. DE C.V.
Consulting services in cost management, programming, production control and process improvement.

PROMOTORA MADRID, S.A. DE C.V.
Environmental Impac Study for a 28 apartment building to be built in Colonia Roma de la Ciudad de México.

QUÍMICA HOECHST DE MÉXICO, S.A. DE C.V.
Detailed engineering in their different disciplines, for several expansions in various areas of their plants of Santa Clara, Mex; San Angel, D.F. and Ocoyoacac, Mex.
Civil detail engineering project, as well as of reinforcements and slabs for the AZO plant in Santa Clara, Mex.
Calculations, drawings and reports elaboration for the Labor Authorities of several pressure storage tanks.
Instruments location and signs routes drawings elaboration, as well as of lists of materials for centrifugal, in the Farma plant in Santa Clara, Mex.
Electrical as-built drawings, including field survey for several areas of the plant.
Detailed engineering project in all its disciplines, for the construction and erection of the Jet Mill Nº 2, in the plant of Sta. Clara, Mex.
Construction supervision and contractors control, in various expansion projects of their chemical and pharmaceutical plants in Santa Clara, de Mex., and San Angel, D.F.

REYNOLDS ALUMINIO, S.A.
Civil and electrical detailed engineering projects, of the extruded and laminated aluminum plants in their facilities in Mexico State.

RODHIA MEXICANA, S.A.
Study for the determination of the required investments amounts in detailed engineering, equipment, material, construction, erection and facilities installations for an aromatic products plant in Mexico City.

SALEJ OURFALI JASQUI Y COPROPIETARIOS
Environmental Impact Study for the remodeling of a twelve-storey building and the construction of a new four-storey building for the installation of new offices in the 2nd perimeter of Mexico City Downtown.

SANTALÓ Y CIA., S.A.
Feasibility study for the creation of a computing company.
SCIENCES AND TECHNOLOGY NATIONAL COUNCIL
Design of two industrial packages, as well as the methodology for their implementation (footwear and shirt manufacture plants for export).

SERVICIOS CORPORATIVOS PACKSA, S.A. DE C.V.
Completion and finishing works in their corporate offices in Mexico City.

SERVICIOS INTEGRADOS AHMSA INGENIERÍA Y ASOCIADOS, S.A. DE C.V.
Environmental Impact Study for a 21 apartment building in Col. Roma Sur, D. F.

SERVICIOS METROPOLITANOS, S.A. DE C.V.
Study for the identification of untilled land lots and analysis of the possibilities of their utilization on the part of Mexico City government.

SERVIMAQUINARIA, S.A.
Feasibility study, analysis, design and implementation of a personnel remuneration system, as well as reports generation, in the offices in Huehuetoca, Mex.

SHERWIN WILLIAMS, S.A. DE C.V.
Environmental impact study for new facilities in the plant at Industrial Vallejo, Mexico City.
Risk simulation study for a toluene storage tank in the plant at Industrial Vallejo, Mexico City.

SOCIAL SECURITY MEXICAN INSTITUTE
Environmental impact study for a general hospital at San Pedro Xalpa, Mexico City.

SOCIEDAD MEXICANA DE QUÍMICA INDUSTRIAL, S.A. DE C.V.
Detailed engineering in their different disciplines, for several expansions in various areas of the plant in Santa Clara, Mex.
Design and shop drawings of pressure storage tanks for flammable gas managing.
Basic and detailed engineering for several instrumentation systems of the plant, in Santa Clara, Mex.
Calculations and drawings review of 81 pressure storage tanks, for the different substances handled in the production area.
Electrical as-built drawings in various zones of the plant in Santa Clara, Mex.
Construction supervision and contractors control, in several expansion projects of their chemical plant in Santa Clara, Mex.

TANQUES FABRICADOS, S.A.
Productivity study in the storage tanks and metallic structures plant in Los Reyes, Mex.

TAX ADMINISTRATION SERVICE / CUSTOMS GENERAL ADMINISTRATION
(CUSTOMS PLANNING CENTRAL ADMINISTRATION)
Development of Technical and Operational aspects to be considered in the services provision of a Customs Office.
TECNOLÓGIA EN ALIMENTOS BALANCEADOS, S.A.
Design of an equipment for sorghum fermentation, used in the food production for fowl.

TUBE TURNS DE MÉXICO, S.A.
Marketing study for a large diameter rolled rings plant.
General construction supervision for the pipe connections of the manufacture plant in Los Reyes, Mex.

UNILEVER DE MÉXICO, S.A. DE C.V.
Development of an environmental contingencies program, for the Anderson Clayton plant at Tultitlán, Mexico.

UNIVERSIDAD AUTÓNOMA DE TAMAULIPAS
Basic and detailed design of an experimental grains rotary dryer prototype with low capacity.
Design engineering project of a laboratory fermentation equipment.
Support services for the design of an experimental high temperature pop-corn dryer of low capacity.
Construction of an experimental rotary grains dryer prototype of low capacity.
Manufacture of a laboratory fermentation equipment.
Construction supervision of an experimental high temperature pop-corn dryer of low capacity.

VALLE DEL CARRIZO AGROINDUSTRIAL ASSOCIATION
Detailed engineering projects in all their disciplines for a wheat flour plant at Valle del Carrizo, Sin.
Construction supervision of a wheat flour plant in Valle del Carrizo, Sin.

WACKER MEXICANA, S.A. DE C.V.
Detailed engineering in various disciplines for some plant expansions in Santa Clara, Mex.
As-built drawings of the chemical plant electrical system.

WAL-MART, S.A. DE C.V.
Environmental impact study for a Superama store to be built in Colonia Las Águilas, Mexico City.
Environmental impact study for a Bodega Aurrerá store and a Vips restaurant to be built in Ixtapaluca, Edo. De México.
Environmental impact study for a Wal Mart Supercenter store to be built in Los Mochis, Sin.
Environmental impact study for a Bodega Aurrerá store to be built in Tuxtla Gutiérrez, Chis.
Environmental impact study for a Sam’s Club store to be built in Los Mochis, Sin.