



APPROVED MANUFACTURER'S LIST

FOR THE CARTAGENA REFINERY EXPANSION PROJECT

CB&I CONTRACT NO. 166000

Prepared by: Robert Suhr – 6001 Rogerdale Drive, Houston TX

Doc. No.: 166000-000-PL-PT03-0001

Information Class: ☐ Confidential ☒ Business ☐ Public

Rev. No.	Rev. Date	Revision Description	Prep. By:	Chk By:	App. By:
A	4/24/08	Issue for Review	CRS	CDM	SG
0	6/5/08	Issue for Approval	MLR	KLJ	CDM
1	08/26/08	Issue For Approval	PM	CDM	CDM
2	10/16/08	Issue for Use	PM	CDM	CDM
3	03/26/09	Issue for Use	JG	CDM	CDM
4	06/22/09	Issue for Information	EHO	JG	CDM
5	06/15/10	Issue for Use	MG	CDM	DB
6	11/16/10	Issue for Use	MG	CDM	DB
7	08/01/11	Issue for Use	MG	CDM	DB
8	01/06/12	Issue for Use	MG	RS	DB
9	06/13/12	Issue for Use	MG	RS	DB
10	05/02/13	Working Progress – Client Review	FM	RS	

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APPROVED MFG'S LIST TABLE OF CONTENTS

Asterisks (*) Indicate Suppliers Added by Technip and Will Not be Removed

Triangles (△) Indicate New Manufacturers Added for the Current Revision

1 GROUP – EXCHANGERS

- 1.1 Carbon Steel and Stainless Steel, Up to 40 inch ID
- 1.2 Heat Exchangers, Shell & Tube, Carbon Steel and Stainless Steel
- 1.3 Heat Exchangers, Air Cooler
- 1.4 Heat Exchangers, Double Pipe/Multi-Tube Double Pipe
- 1.5 Heat Exchangers, Double Pipe/Finned Tubes
- 1.6 Heat Exchangers, Plate & Frame
- 1.7 Heat Exchangers, Electric Heaters
- 1.8 Heat Exchangers, Plate Fin
- 1.9 Heat Exchangers, Surface Condensers

2 GROUP – PRESSURE VESSELS

- 2.1 Pressure Vessel, Carbon Steel, Small up to 20 T
- 2.2 Pressure Vessel, Carbon Steel, Medium Up To 40 T
- 2.3 Pressure Vessel, Carbon Steel, Large Over 40 T
- 2.4 Pressure Vessel, Stainless Steel, Small Up To 20 T
- 2.5 Pressure Vessel, Stainless Steel, Medium Up To 40 T
- 2.6 Pressure Vessel, Stainless Steel, Large Over 40 T
- 2.7 Pressure Vessels, Clad Steel, Small & Medium Sizes, Up To 40 T
- 2.8 Pressure Vessels, Heavy Wall, Over 2.4 Inches (All Materials)
- 2.9 Column Trays Draw-Off and Calming Sections and HIFI
- 2.10 Schoepentoeters – Vane Type
- 2.11 Demisting Screens – Metal/Synthetic
- 2.12 Packing
- 2.13 Vane or Other Proprietary Internals

3 GROUP – FURNACES

- 3.1 Regenerant Furnaces (Less than 20 MM BTU/hr)
- 3.2 Regenerant Furnaces (Greater than 20 MM BTU/hr)

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- 3.3 Burners Etc
- 3.4 Thermal Oxidizers/ Incinerators
- 3.5 Flare and Stack
- 3.6 Electric Heaters
- 3.7 Defrost Gas Heaters
- 3.8 Heaters (Hot Oil & Gas)
- 3.9 Heaters Ancillary Equipment

4 GROUP – ROTATING EQUIPMENT

- 4.1 Diaphragm Pump
- 4.2 Pumps, Centrifugal, Horizontal, Single & Multi-Stage, API 610
- 4.3 Pumps, Centrifugal, AGRU Services, API 610
- 4.4 Pumps, Centrifugal, Vertical Submerged, API 610 (Radial Split) – Sea Water pumps
- 4.5 Pumps, High Speed
- 4.6 Centrifugal Pumps (Non API)
- 4.7 Vertical In-Line Pumps (BS 4082.Class R)
- 4.8 Pumps, Rotary Single Screw (Progressive Cavity)
- 4.9 Pumps (Sump Type)
- 4.10 Pumps, ASME B73
- 4.11 Reciprocating Dosing Pumps
- 4.12 Rotary Positive Displacement Pumps
- 4.13 Sealless Pump
- 4.14 Sulfur Pump
- 4.15 Firewater Pumps
- 4.16 Compressor, Centrifugal, In Accordance with API 617
- 4.17 Compressor, Integrally Geared, (Process) API 672
- 4.18 Compressors, Instrument Air Compressors, A1014 API 617
- 4.19 Compressors, Reciprocating, to API 618
- 4.20 Gas Turbines, Power Generation Units (G.E. Frame 5 or Equivalent)
- 4.21 Electric Motors (API 541)
- 4.22 Electric Motors (IEEE 841)
- 4.23 Electric Motors (API 546)
- 4.24 Electric Generators (3000 KW and Smaller)
- 4.25 Electric Generators (Larger than 3000 KW)

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- 4.26 Expanders – Turbines, Liquid, Cryogenic
- 4.27 Centrifugal Compressors, API 617 – Except MR Type
- 4.28 Screw Air Compressor (Integral Gear)
- 4.29 Process Screw Compressors
- 4.30 Blowers/Fans
- 4.31 Steam Turbines (General Purpose) with API 1611
- 4.32 Steam Turbines (Special Purpose) with API 1612
- 4.33 Gearboxes, General Purpose
- 4.34 Gearboxes, API 613
- 4.35 Diesel Engines and Diesel Engine Generator Drivers, For 250 KW and Over
- 4.36 Couplings (For Compressors)
- 4.37 Mechanical Seals
- 4.38 Centrifugal & Axial (For Process Gas)
- 4.39 Centrifugal (API 672) Plant & Instrument Air
- 4.40 Reciprocating (For Process Gas)
- 4.41 API 685 – Canned Pump

5 GROUP – SPECIAL EQUIPMENT

- 5.1 Interceptors/Corrugated Plates (CPI)
- 5.2 Desalination Units
- 5.3 Sea Water Screen Equipment
- 5.4 Electro-Chlorination Units
- 5.5 Ion Exchanger Softener
- 5.6 Chemical Injection Packages
- 5.7 Instrument Air Dryers
- 5.8 Vacuum Package
- 5.9 Steam-Vacuum Condensers
- 5.10 Nitrogen Production Units (Nitrogen Storage/Vaporizer/Package)
- 5.11 Process Filters
- 5.12 Backwash Filters
- 5.13 Packaged Equipment, Air Filters
- 5.14 Bag Filter
- 5.15 Sanitary Treatment Equipment, Including Lift Stations
- 5.16 API Separators

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- 5.17 Electro Chlorinators
- 5.18 Seawater RO Unit/Electron ionization
- 5.19 Drinking Water Treatment Package
- 5.20 Carbon Filter
- 5.21 Strainers, General Purpose
- 5.22 Strainers, Feed Gas
- 5.23 PIG Receivers
- 5.24 Slug Catcher – Design Fabricators
- 5.25 Mixers, Top Entry
- 5.26 Mixers, Static In-Line
- 5.27 Glycol Dehydration System
- 5.28 Molecular Sieves
- 5.29 Reverse Osmosis Unit
- 5.30 Seismic Isolators
- 5.31 Marine Loading Arms
- 5.32 Sulphur Storage Tank Roof Coil Package
- △ 5.33 Refractory Lined Equipment
- △ 5.34 Track Washing System

6 GROUP – SOLIDS PROCESSING EQUIPMENT

- 6.1 Hoists and Cranes
- 6.2 Handling Equipment, General
- △ 6.3

7 GROUP – UTILITY EQUIPMENT

- 7.1 Boilers
- 7.2 Deaerators
- 7.3 Waste Heat Boiler

8 GROUP – STRUCTURAL

- △ 8.1 Gangway
- △ 8.2 Steel Structures
- 8.3 Aluminium Plate and Structural

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9 GROUP – FIRE & SAFETY

- 9.1 UV/IR Fire Detectors (Flame)
- 9.2 Fire Detectors (Heat/Rate of Rise/Rate Compensated)
- 9.3 Fire Detectors (Smoke)
- 9.4 Combustible Gas Detectors
- 9.5 Toxic Gas Detectors
- 9.6 Manual Call Point
- 9.7 Water Systems
- 9.8 Spray/Sprinklers/Deluge Valves in Spray Systems
- 9.9 Fire Extinguishers, Wheeled and Portable
- 9.10 Foam Hose Reels, Water Hose Reels, Fire Fighting Equipment, Hydrants (Fabricated)
- 9.11 Post Indicator Valves
- 9.12 NFPA 20, Fire Pumps (UL Listed/FM Approve)
- 9.13 High Expansion Foam System
- 9.14 Dry Chemical Fixed Systems
- 9.15 Clean Agent or CO2 Extinguishing System for Buildings, Gas Turbines, Compressors
- 9.16 Safety Showers & Eye Wash
- 9.17 Ambulances
- 9.18 Foam Trucks
- 9.19 Fire Fighting Equipment
- 9.20 Breathing Air System

10 GROUP – CHEMICAL & CATALYST

- △ 10.1 Chemical and Catalyst
- 10.2 Paint and Coating
- 10.3 Catalyst and Additives Addition Systems
- 10.4 Fiberglass/Insulation

11 GROUP – REACTOR INTERNALS

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11.1 Feed Nozzles

12 GROUP – SOLID SEPARATORS

12.1 Cyclones

13 GROUP – FCCU SLIDE VALVES

14 GROUP – DELAYED COKER VALVES

15 GROUP – ELECTRICAL

- 15.1 Motor Control Centers
- 15.2 Power Control Centers / Substations
- 15.3 Controls Transformers
- 15.4 Meter and Protection Transformers
- 15.5 Oil, Distribution Transformers
- 15.6 Dry & Resin, Distribution Transformers
- 15.7 Power Transformers
- 15.8 Switchgear and 6.3 kV Circuit Breakers
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- 15.10 Contactors
- 15.11 Low Voltage Protection Relays
- 15.12 Medium Voltage Protection Relays
- 15.13 Power and Control Cables (STD: UL-1072 / NEMA WC-7)
- 15.14 Electrical Conduits and Terminal Boxes for Non-Classified Areas
- 15.15 Electrical Boxes for Classified Areas
- 15.16 Galvanized Conduit Tubing Diameter ½" to 4"
- 15.17 Galvanized Conduit Tubing Diameter 2" to 6"
- 15.18 Cable Trays
- 15.19 Electrical Boards for Non-Process Applications
- 15.20 Flexible Conduit Tubing
- 15.21 Flexible Conduit Steel Mesh

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15.22	Flexible Conduit Liquid Tight
15.23	Local Control Switches
15.24	Lighting Panels
15.25	Lighting Fixtures for Classified Areas (STD: UL-886 / ANSI C-33.27 / CSA-C22.2 / NEMA 3.4)
15.26	Lighting Fixtures for Un-Classified Areas (STD: UL-514B / FED-SPEC W-C-5860 / CSA-C22.2 / ANSI C-33.84)
15.27	Explosion Proof Outlets (120V)
15.28	Welding Outlets (600V, Safety Switch)
15.29	Electrical Terminals
15.30	Industrial Batteries (Positive Plate Tubular Type)
15.31	Invertors
15.32	125 VDC Un-Interruptible Power Systems (UPS)
15.33	Battery Chargers
15.34	Direct Current System
15.35	Air Conditioning and Refrigeration Systems
15.36	Air Conditioning for Computerized Control Rooms
15.37	Explosion Proof Water Coolers Low Flow
15.38	Explosion Proof Water Coolers High Flow
15.39	Explosion Proof Window Air Conditioners
15.40	Electronic Governors (STD: See Group Standard Four-/NUM. 58.4)
15.41	Emergency Shower and Eye Wash Installations Haws Corrosion Resistant/Emergency Station all Stainless
15.42	Emergency Shower and Eye Wash Installations
15.43	Emergency Shower and Eye Wash Installations Push Button, Vibrating Signal Bell, Obstructing Light
15.44	Substations Supervisory System
15.45	Variable Frequency Drivers Low Voltage
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15.47	Electronic Meters for Electrical Systems
15.48	AC/DC UPS (Uninterruptable Power Supplies)
△ 15.49	Heat Tracing System
15.50	Cathodic Protection System

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GROUP – PIPE

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- △ 16.1 Carbon Steel Seamless
16.2 Carbon Steel ERW
16.3 Carbon Steel EFW
16.4 Carbon Steel DSAW
16.5 Stainless Steel Seamless
16.6 Stainless Steel ERW
16.7 Alloy Seamless
16.8 Alloy Welded
16.9 Alloy DSAW
16.10 Reinforced Concrete Pipe
16.11 RTRP Pipe
16.12 HDPE Pipe
16.13 Flanges Figure & Drip Rings
16.14 Interlock System

17 GROUP – FITTINGS

- 17.1 Carbon Steel
17.2 Stainless Steel
17.3 Alloy
17.4 PVC/CPVC Fittings
17.5 Tube Fittings
17.6 BW Fittings
17.7 Compression Fittings
17.8 Blinds

18 GROUP – FORGED FITTINGS

- 18.1 Carbon Steel
18.2 Stainless Steel
18.3 Alloy
18.4 Block Type Forged Steel Fittings

19 GROUP – FLANGES

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- 19.1 Carbon Steel
- 19.2 Stainless Steel
- 19.3 Alloy

20 GROUP – O'LETS

21 GROUP – PIPE SUPPORTS

- 21.1 Pipe Supports
- 21.2 **SECTION DELETED – REFICAR'S REQUEST**
- 21.3 Spring Hangers
- 21.4 Wear Pads

22 GROUP – VALVES

- 22.1 Butterfly Valves
- 22.1.1 High Performance Butterfly Valves
- 22.2 Cast Bronze Gate, Globe & Check
- 22.3 Cast Iron Gate, Globe & Check Valves
- △ 22.4 Small Bore Forged Steel Valves Gate, Globe & Check (Carbon/Alloy/SS)
- 22.5 Large Bore Carbon Steel Gate, Globe & Check Valves
- 22.6 Stainless Steel Gate, Globe & Check Valves
- 22.7 Alloy Gate, Globe & Check Valves
- 22.8 Plug Valves
- 22.9 Wafer Check Valves
- 22.9.1 Ball Valves (Non Cryogenic)
- 22.10 Diaphragm Valves
- 22.10.1 Ball Valves Stainless Steel (Cryogenic)
- 22.11 Y-Pattern & Blow Down Valves
- 22.12 Non-Slam Check Valves (Axial)
- 22.13 Steam Traps/Vacuum Traps
- 22.14 Through Conduit Valves
- 22.15 Control Valves
- 22.16 On/Off (Ball and Butterfly Type) Valves

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- 22.17 Severe Service (High DP)
- 22.18 Acid Gas Diverter Valves
- 22.19 Electric Motor Valve Operations
- 22.20 Pneumatic Actuators
- 22.21 Other Actuators
- 22.22 Solenoid Valves
- 22.23 Safety Relief Valves
- 22.24 Rupture Discs
- 22.25 Transducers
- 22.26 Positioners
- 22.27 Electronic Valve Operators
- 22.28 Valve-Control, Globe and Angle
- 22.29 Valve-Manifold Needle, Tubing, Etc.
- 22.30 Valve-Pressure, Self-Operated
- 22.31 Valve Position Indicator / Switch
- △ 22.32 Decantation Valve
- 22.33 Line Blind Valves
- △ 22.34 Deluge Valves

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GROUP - MISCELLANEOUS

- 23.1 Metallic Expansion Joints
- 23.2 Non-Metallic Expansion Joints
- 23.3 Rubber Expansion Joints
- 23.4 Ring Type Joint Gaskets
- 23.5 Transition Joints (Low Temp/Low Pressure)
- 23.6 Flexible Metal Hose
- △ 23.7 Bolts, Nuts, and Washers
- 23.8 Gaskets – Flat Ring
- 23.9 Gaskets – Flexible Graphite
- 23.10 Gaskets – Spiral Wound
- 23.11 Insulation Gasket Kit
- 23.12 Simple Ejectors and Eductors
- 23.13 Steam Desuperheaters
- 23.14 Elevators
- 23.15 Electronic Transmitters
- 23.16 Instrument and Fiber Optic Cables

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- 23.17 Manifold Blocks – DELETED-SEE SECTION 32.19
- 23.18 Refractory

24 GROUP – COKE DRUM

- 24.1 Coke Drum

25 GROUP – TEMPERATURE INSTRUMENTS

- 25.1 Thermometers (Bi-Metallic) and Wells
- 25.2 Thermometers, Filled System
- 25.3 Temperature Transmitters
- 25.4 Temperature-Multipoint Transmitters
- 25.5 RTD's, Thermocouples, Thermowells, Assemblies and Wells
- 25.6 Multipoint Sensor
- 25.7 Tubeskin Thermocouples
- 25.8 Temperature Switches
- 25.9 Thermocouple Switches
- 25.10 Thermocouple Extension Cable

26 GROUP – FLOW INSTRUMENTS

- 26.1 Flow Transmitters- (DP and Multivariable Type)
- 26.2 Variable Area Flow Meters and Rotameters
- 26.3 Orifice Plates, Meter Runs, Orifice Flanges
- 26.4 Orifice Unions
- 26.5 Sight Flow Glasses
- 26.6 Positive Displacement Meters
- 26.7 Magnetic Flowmeters
- 26.8 Turbine Meters
- 26.9 Vortex Meters (Insertion Type)
- 26.10 Vortex Flow Meters (Inline)
- 26.11 Averaging Pitot
- 26.12 Thermal Dispersion Flow Elements and Switches
- 26.13 Mass Flowmeter Controls
- 26.14 Flow Controller Recorders, Local

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- 26.15 Flow (Differential) Indicators – DELETED – SEE SECTION 28.4
- 26.16 Flow Meters, Provers
- 26.17 Flow Tubes and Venturis
- 26.18 Anemometers
- 26.19 Ultrasonic
- 26.20 Flow Switches
- 26.21 Flow Meter, Wedge

27 GROUP – LEVEL INSTRUMENTS

- 27.1 Level (Disp. Type) Controller Recorders Local
- 27.2 Transmitters-Level Displacement Type
- 27.3 Servo Driven Displacer
- 27.4 Capacitance/RF Devices
- 27.5 Level Transmitter – (DP Type)
- △ 27.6 Guided Wave Radar Level Transmitter
- 27.7 Radar Level Transmitter (Non-Contacting Type)
- 27.8 Gauge Glasses
- 27.9 Level Gauges, Steam Drum
- 27.10 Level Indicators, Capacitance
- 27.11 Level Indicators, Float and Type
- 27.12 Level Indicators (Magnetic)
- 27.13 Level Indicators, Radio Active and Nuclear (Neutron Backscatter)
- △ 27.14 Level Indicators, Radio Active and Nuclear (Gamma Type)
- 27.15 Level Indicators, Ultra-Sonic
- 27.16 Tank Level Gauges Float (Servo Type)
- 27.17 Solids
- 27.18 Switches, Level Capacitance
- 27.19 Switches, Level Diaphragm
- 27.20 Switches, Level Float
- 27.21 Switches, Level Sonic
- 27.22 Switches, Level, Vibrating Reed

28 GROUP – PRESSURE INSTRUMENTS

- 28.1 Differential Pressure Transmitters

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- 28.2 Pressure Transmitters
- 28.3 Pressure Gauges
- 28.4 Pressure Instruments Differential Indicators
- 28.5 Specialty Gauges
- 28.6 Draft Gauges
- 28.7 Pressure Switches

29 GROUP – PANEL MOUNTED INSTRUMENTS

- 29.1 Purge Systems
- 29.2 Alarm Annunciators
- 29.3 Terminal Strips
- 29.4 Barriers
- 29.5 Junction Boxes

30 GROUP – ANALYZER

- 30.1 Analyzer Housing
- 30.2 Analyzer Opacity
- 30.3 Analyzer Oxygen
- 30.4 Area Monitors-H₂S, LEL and Fire
- 30.5 Magnetic Resonance
- 30.6 O₂ Sensors/Transmitters
- 30.7 O₂ Sensors/Transmitters (Hector Process Control)
- 30.8 H₂O and Combustible Gas Detectors – Electro Chemical
- 30.9 Conductivity/pH
- 30.10 pH
- 30.11 Dew Point
- 30.12 H₂S/SO₂ Analyzers
- 30.13 Continuous Emissions Monitors
- 30.14 GC Analyzers – DELETED – SEE SECTION 30.18
- 30.15 NOX
- 30.16 Tail Gas Analyzer
- 30.17 Diaphragm Seals
- 30.18 Analyser – Gas Chromatographs
- 30.19 Analyser - Infrared (CO-CO₂-SO₂-etc.), Thermal Conductivity, H₂

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30.20	Dissolved Oxygen
30.21	Color
30.22	Flash Point
30.23	Freeze Point
30.24	Fluoride Ion
30.25	Sulphur
30.26	Wobbe Index
30.27	Oil In Water
30.28	H2 PURITY
30.29	DENSITY
30.30	TOC

31 GROUP – CONTROL SYSTEMS

31.1	Process Control Systems
31.2	Controller and Recorder Systems
31.3	Networking and Communication Components
31.4	Security and Surveillance
31.5	Programmable Controllers
31.6	Electronic Over Speed Protection
31.7	Vibration Monitoring Systems
31.8	Compressor Anti-Surge and Capacity Control
31.9	Single Loop Pneumatic Controllers
31.10	Single Loop Electronic Controllers
31.11	Local HMIs
31.12	SIS
31.13	Single Isolators/Converters, Electronic

32 GROUP – MISCELLANEOUS INSTRUMENTS

32.1	Combustion Monitors (Fired Heaters)
32.2	Filters
32.3	Diaphragm Seals – DELETED – SEE SECTION 30.17
32.4	Fire and Flame Detectors
32.5	UV and IR
32.6	Sulphur Reactor

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- 32.7 Tank Blanketing
- 32.8 Turbine Governors
- 32.9 Flare Pilot and Smoke Detectors
- 32.10 Remote Seals Calibration Rings
- 32.11 Tubing Bundles
- 32.12 Speed Transmitters
- 32.13 Transmission Cable, Electronic
- 32.14 Tubing-Multi-Tube Bundles, Etc.
- 32.15 Tubing Fittings
- 32.16 Motion Switches
- 32.17 Speed Switches
- 32.18 Vibration Switches
- 32.19 Instrument Valve Manifolds
- 32.20 Instrument Enclosures
- 32.21 Oil Mist Systems

33 GROUP – VESSELS, TOWERS, DRUMS, REACTORS, TANKS

- 33.1 Reactors
- 33.2 Columns & Vessels
- 33.3 Trays and Internals for Towers and Reactors
- 33.4 Internal for Coalescer
- 33.5 Tanks
- 33.6 Reformer Fabrication

34 GROUP – PACKAGED PROCESS UNITS

- 34.1 Biological Aeration System
- 34.2 Clarifiers and Thickeners
- 34.3 Flotation Units
- 34.4 Sludge Dewatering
- 34.5 Gas Dryers
- 34.6 Desalter
- 34.7 Ash Packing Unit
- 34.8 Air Separation Unit
- 34.9 Gasification Reactor Burner

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- 34.10 Auxiliary Burner
- 34.11 Cake Conveying System
- 34.12 Filter Press Unit/Ejector
- 34.13 Claus Furnace and Burner
- 34.14 Water Filtration
- 34.15 Spent Caustic Wet Air Oxidation Unit
- 34.16 Cooling Tower
- 34.17 PSA
- 34.18 Top Unheading System
- 34.19 Bottom Unheading System
- 34.20 Hydraulic Decoking Package

35 GROUP – INSTRUMENTS & CONTROLS

- 35.1 MMS
- 35.2 Emergency Shutdown System
- 35.3 Tank Gauging System

36 GROUP – DUCTWORK

- △ 36.1 Refractory Lined

37 GROUP – SAMPLE STATIONS

- △ 37.1 Sample Stations

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NOTE: * - Acquired from Technip's List

1 GROUP – EXCHANGERS

1.1 CARBON STEEL AND STAINLESS STEEL, UP TO 40 INCH ID

COLMESA	COLOMBIA
V R INGENIERIA	COLOMBIA
COLMAQUINAS	COLOMBIA
COMDISTRAL	COLOMBIA
IMEC	COLOMBIA
INTERCOL LTDA	COLOMBIA
SERIDME	COLOMBIA
TALLERES UNIDOS	COLOMBIA
LARSON & TOUBRO	INDIA
BREMBANA CONSTRUCTION INDUSTRIAL SPA	ITALY
CIVIDAC SPA	ITALY
LUIGI RESTA SPA	ITALY
MANGIAROTTI SPA	ITALY
OLMI SPA	ITALY
ORLANDI IMPIANTI SRL	ITALY
VILLA & BONALDI SPA	ITALY
DAEKYUNG MACHINERY& ENGINEERING CO., LTD	S.KOREA
DOOSAN MECATEC COMPANY, LTD	S.KOREA
HYUNDAI	S.KOREA
IL SUNG ENGINEERING	S.KOREA
SEOUL PLANT ENG. & CONSTRUCTION CO. , LTD.	S.KOREA
GRIRO S.A.	ROMANIA
ENERGY EXCHANGER COMPANY	USA
KRUEGER ENGINEERING & MFG. CO. INC.	USA
KETEMA LP	USA
HEAT EXCHANGER DESIGN INC.	USA
HEAT TRANSFER EQUIPMENT COMPANY	USA

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	STEELTEK INC.	USA
	OHMSTEDE LTD.	USA
	HUGHES ANDERSON HEAT EXCHANGERS INC.	USA
	SOUTHERN HEAT EXCHANGER CORP.	USA
	SHELL AND TUBE LLC	USA
	NINGBO TIANYI (SINOPEC OWNED)	CHINA
	SINOPEC NANJING (SINOPEC OWNED)	CHINA
	JIANGSU SUNPOWER	CHINA
	FUSHUN MECHANICAL	CHINA
*	OMSA SRL	ITALY

1.2 HEAT EXCHANGERS, SHELL & TUBE, CARBON STEEL AND STAINLESS STEEL

*	BERTSCH HOLDING GMBH	AUSTRIA
	COLMESA	COLOMBIA
	V R INGENIERIA	COLOMBIA
	C M	COLOMBIA
	COLMAQUINAS	COLOMBIA
	COMDISTRAL	COLOMBIA
	IMEC	COLOMBIA
	INTERCOL LTDA	COLOMBIA
	SERIDME	COLOMBIA
	TALLERES UNIDOS	COLOMBIA
*	HANS LEFFER GMBH	GERMANY
*	MAG DWE GMBH	GERMANY
	THEODOR WINKELS GMBH	GERMANY
	LARSON & TOUBRO LTD.	INDIA
	BREMBANA COSTRUZIONI INDUSTRIALI	ITALY
*	CCM SPA	ITALY
*	FBM/HUDSON (PART OF KNM)	ITALY
	IMB (PART OF KOCH HEAT TRANSFER	ITALY
*	LOTARIOS SPA	ITALY
	LUIGI RESTA SPA	ITALY
	MANGIAROTTI SPA	ITALY
*	NICOLA & ALBIA SRL	ITALY

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	NUOVO PIGNONE SPA	ITALY
	OLMI SPA	ITALY
*	OMSA SRL	ITALY
	ORLANDI IMPIANTI SRL	ITALY
*	RAVAGNAN SPA	ITALY
*	ROLLE SPA	ITALY
*	SICES GROUP SPA	ITALY
*	VILLA E BONALDI SPA	ITALY
*	VILLA SCAMBIATORI SRL	ITALY
*	VRV ITALY	ITALY
*	ZANON SPA	ITALY
	HITACHI ZOSEN MECHANICAL CORPORATION	JAPAN
	MITSUI ENGINEERING & SHIPBUILDING CO. LTD.	JAPAN
	DOOSAN MECATEC COMPANY LTD.	S.KOREA
*	HANTEC LTD.	S.KOREA
	HYUNDAI MACHINERY INDUSTRIES CO.	S.KOREA
*	IL SUNG ENGINEERING	S.KOREA
	SEWON HEAVY MACHINERY CO.	S.KOREA
	DAEKYUNG MACHINERY & ENGINEERING CO. LTD	KOREA/INDONESIA
*	SWECOMEX	MEXICO
	GRIRO S.A.	ROMANIA
	SANTAZ CENSA S.A.	SPAIN
	ALTEX INDUSTRIES, INC.	USA
	HUGHES ANDERSON HEAT EXCHANGER INC.	USA
	KRUEGER ENGINEERING & MFG. CO. INC.	USA
	OHMSTEDE LTD.	USA
	SHELL AND TUBE LLC	USA
	SOUTHERN HEAT EXCHANGER CORP.	USA
	YUBA EXCHANGERS	USA
	ENERGY EXCHANGER COMPANY	USA
	STEELTEK, INC.	USA
	NINGBO TIANYI (SINOPEC OWNED)	CHINA
	SINOPEC NANJING (SINOPEC OWNED)	CHINA
	JIANGSU SUNPOWER	CHINA
	FUSHUN MECHANICAL	CHINA

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1.3 HEAT EXCHANGERS, AIR COOLED

	HEA HUDSON (PART OF KNM)	AUSTRALIA/INDONESIA
*	VERMEER	BELGIUM
	COLMESA	BOGOTA
	V R INGENIERIA	BOGOTA
	C M	COLOMBIA
	COLMAQUINAS	COLOMBIA
	COMDISTRAL	COLOMBIA
	IMEC	COLOMBIA
	INTERCOL	COLOMBIA
	SERIDME	COLOMBIA
	TALLERES UNIDOS	COLOMBIA
	HAMON-DHONDT	FRANCE/BELGIUM
	BTT/GEA	FRANCE/USA
*	FEA LUNFKUKLER	GERMANY
*	NE MACBALKE	GERMANY
*	JORD INTERNATIONAL	INTERNATIONAL
*	BOLDROCCHI	ITALY
	FBM/KNM	ITALY
	GE NUOVO PIGNONE SPA	ITALY
*	OLMI SPA	ITALY
	ORLANDI IMPIANTI SRL	ITALY
	MITSUBISHI	JAPAN
	KOREA HEAT EXCHANGER IND. CO., LTD.	KOREA
	S & T CORPORATION	KOREA
	GEA RAINEY CORPORATION	USA
	HAMMCO	USA
	HUDSON INC. PRODUCTS/SMITHCO	USA
	ECODYNE HEAT EXCHANGERS	USA
	HUGHES ANDERSON HEAT EXCHANGERS INC.	USA
	COOLING PRODUCTS	USA

1.4 HEAT EXCHANGERS, DOUBLE PIPE/MULTI-TUBE DOUBLE PIPE

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*	KOCH HEAT TRANSFER/BROWN FINTUBE	USA
*	OMSA SRL	ITALY
*	SIIRTEC NIGI SPA	ITALY
	ALCO TWIN	USA
	HEAT EXCHANGER DESIGN, INC.	USA
	R W HOLLAND, INC.	USA
	NINGBO TIANYI (SINOPEC OWNED)	CHINA
	SINOPEC NANJING (SINOPEC OWNED)	CHINA
	JIANGSU SUNPOWER	CHINA
	FUSHUN MECHANICAL	CHINA

1.5 HEAT EXCHANGERS, DOUBLE PIPE/FINNED TUBES

FINTECH (BROWN FINTUBE)	USA / FRANCE
SIRITEC SRL	ITALY
BREMBANA COSTRUZIONI INDUSTRIALI SPA	ITALY
COMER	ITALY
DOOSAN MECATEC COMPANY LTD.	S.KOREA
HEAT EXCHANGER DESIGN INC.	USA
R W HOLLAND INC.	USA
NINGBO TIANYI (SINOPEC OWNED)	CHINA
SINOPEC NANJING (SINOPEC OWNED)	CHINA
JIANGSU SUNPOWER	CHINA
FUSHUN MECHANICAL	CHINA

1.6 HEAT EXCHANGERS, PLATE & FRAME

PROVETECMAR S.A.	COLOMBIA
ALFA LAVAL PACKINOX	FRANCE
GEA AHLBORN	FRANCE
HISAKA WORKS LTD.	JAPAN
APV BAKER	U.K.
GRAHAM MANUFACTURING	USA
TRANTER	USA
APV	USA/DENMARK

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VICARB

ALFA-LAVAL

MULLER

USA/FRANCE

USA/SWEDEN/KOREA

USA

1.7 HEAT EXCHANGERS, ELECTRIC HEATERS

	LUWA SMA	GERMANY
*	KLOPPER THERM	GERMANY
	ELTRON	U.K.
	CHEMTEC	U.K.
*	HEATEX	U.K.
	ARMSTRONG	USA
	WELLMAN THERMAL SYSTEMS	USA
	RAYCHEM	USA
	GAUMER	USA
	CHROMALOX	USA
	THERMON	USA

1.8 HEAT EXCHANGERS, PLATE FIN

PROVETECMAR S.A.	COLOMBIA
LINDE	GERMANY
KOBE	JAPAN
SUMITOMO	JAPAN
CHART	USA
ALFA-LAVAL	USA/SWEDEN

1.9 HEAT EXCHANGERS, SURFACE CONDENSERS

AMBASSADOR HEAT TRANSFER	USA/SWEDEN
BASCO (SHUTTE & KOERTING)	GERMANY
FOSTER & WHEELER	USA
GRAHAM	USA
KRUGER	GERMANY

2 GROUP – PRESSURE VESSELS

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2.1 PRESSURE VESSEL, CARBON STEEL, SMALL UP TO 20 T

RHEMA INTERNATIONAL	COLOMBIA
PREMAC S.A.	ITAGUI
V R INGENIERIA	COLOMBIA
ADM	FRANCE
CDR	FRANCE
DE LAUNAY ET FILS	FRANCE
SNIG	FRANCE
WINKELS	GERMANY
BHARAT HEAVY PLATE & VESSELS LIMITED	INDIA
BREMBANA	ITALY
C I CIVIDAC	ITALY
GRANZIERO	ITALY
LUIGI RESTA	ITALY
ROLLE	ITALY
SICES S.P.A	ITALY
WALTER TOSTO	ITALY
AMALGAMATED METAL CORPORATION +A70	MALAYSIA
AXIS INDUSTRIAL SA DE CV	MEXICO
IL SUNG ENGINEERING	S.KOREA
SEOUL PLANT	S.KOREA
SEWON	S.KOREA
SUNG JIN	S.KOREA
APPLIED ENGINEERING	SINGAPORE
B.T. ENGINEERING	SINGAPORE
SEBRAWANG ENGINEERING	SINGAPORE
DEUTSCHE BABCOCK (SA) PTY LTD.	SOUTH AFRICA
ELGIN ENGINEERING (PTY)LTD.	SOUTH AFRICA
FELGUERA CALDERERIA PESADA	SPAIN
IDESA	SPAIN
INTERNATIONAL COMBUSTION LTD.	U.K.
BOARDMAN	USA
BRAZOS PIPE & STEEL	USA

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FABRICON	USA
FABWELL	USA
FREEPORT WELDING	USA
GENERAL WELDING	USA
HANOVER	USA
JETT WELD	USA
VESSEL TECHNOLOGY	USA
MODERN WELDING	USA
ROWELL	USA
WILLIAM SCHMIDT	USA
GULF COAST ALLOY	USA
GEMSTAR	USA
TAPCO-ENPRO	USA
CONTINENTAL FABRICATORS	USA
NINGBO TIANYI (SINOPEC OWNED)	CHINA
SINOPEC NANJING (SINOPEC OWNED)	CHINA
JIANGSU SUNPOWER	CHINA
FUSHUN MECHANICAL	CHINA

2.2 PRESSURE VESSEL, CARBON STEEL, MEDIUM UP TO 40 T

PREMAC S.A.	ITAGUI
V R INGENIERIA	COLOMBIA
BSL	FRANCE
LEFFER	GERMANY
WINKELS	GERMANY
ATB	ITALY
C I CIVIDAC	ITALY
GRANZIERO	ITALY
MARALDI	ITALY
ORLANDI IMPIANTI	ITALY
ROLLE	ITALY
SICES SPA	ITALY
SITICHEM	ITALY
VRV	ITALY

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WALTER TOSTO	ITALY
BREMBANA	ITALY
HITACHI Zosen	JAPAN
MHI	JAPAN
MITSUI	JAPAN
SASEBO HEAVY INDUSTRY	JAPAN
DOOSAN MECATEC	S.KOREA
IL SUNG ENGINEERING	S.KOREA
SEWON	S.KOREA
KNM	MALAYSIA
AXIS INDUSTRIAL SA DE CV	MEXICO
FELGUERA CALDERERIA	SPAIN
LOINTEK	SPAIN
IDESA	SPAIN
MOTHERWELL BRIDGE	U.K.
CUSTO-O-FAB	USA
EXCALIBUR	USA
FABWELL	USA
FREEPORT WELDING	USA
GENERAL WELDING	USA
HANOVER	USA
JETT WELD	USA
VESSEL TECHNOLOGY	USA
MODERN WELDING	USA
SAUDER	USA
WILLIAM SCHMIDT	USA
GULF COAST ALLOY	USA
GEMSTAR	USA
TAPCO-ENPRO	USA
CONTINENTAL FABRICATORS	USA
NINGBO TIANYI (SINOPEC OWNED)	CHINA
SINOPEC NANJING (SINOPEC OWNED)	CHINA
JIANGSU SUNPOWER	CHINA
FUSHUN MECHANICAL	CHINA

2.3 PRESSURE VESSEL, CARBON STEEL, LARGE

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OVER 40 T

PREMAC S.A.	ITAGUI
V R INGENIERIA	COLOMBIA
BERTHIER	FRANCE
BSL	FRANCE
LEFFER	GERMANY
STAHL	GERMANY
LARSEN & TOUBRO	INDIA
ATB RIVA CALZONI	ITALY
BELLELI	ITALY
LUIGI RESTA	ITALY
MANGIAROTTI	ITALY
MARALDI	ITALY
NUOVO PIGNONE	ITALY
VRV	ITALY
WALTER TOSTO	ITALY
HITACHI Zosen	JAPAN
IHI	JAPAN
KOBE STEEL	JAPAN
MHI	JAPAN
mitsubishi NAGASAKI	JAPAN
MITSUI SHIPBUILDING	JAPAN
SUMITOMO HEAVY	JAPAN
TMC CORPORATION	JAPAN
SASEBO HEAVY INDUSTRY	JAPAN
SEWON	S.KOREA
KNM	MALAYSIA
AXIS INDUSTRIAL SA DE CV	MEXICO
DOOSAN MECATEC	S.KOREA
HYUNDAI	S.KOREA
IL SUNG ENGINEERING	S.KOREA
DAEKYUNG MACHINERY	S.KOREA
DURO-FELGUERA SA.	SPAIN
LOINTEK	SPAIN
SANTAZ CENSA	SPAIN

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IDESA	SPAIN
INTERNATIONAL COMBUSTION LTD.	U.K.
MOTHERWELL BRIDGE	U.K.
GENERAL WELDING	USA
HANOVER	USA
MITTERNIGHT BOILER	USA
SAUDER	USA
TAYLOR FORGE	USA
FABWELL	USA
JETT WELD	USA
VESSEL TECHNOLOGY	USA
GEMSTAR	USA
TAPCO-ENPRO	USA
CONTINENTAL FABRICATORS	USA
NINGBO TIANYI (SINOPEC OWNED)	CHINA
SINOPEC NANJING (SINOPEC OWNED)	CHINA
JIANGSU SUNPOWER	CHINA
FUSHUN MECHANICAL	CHINA

2.4 **PRESSURE VESSEL, STAINLESS STEEL, SMALL UP TO 20 T**

RHEMA INTERNATIONAL	COLOMBIA
PREMAC S.A.	ITAGUI
BERTHIER	FRANCE
BSL	FRANCE
WINKLES	GERMANY
LARSEN & TOUBRO LIMITED	INDIA
BOSCO	ITALY
C I CIVIDAC	ITALY
GRANZI ERO	ITALY
MANGIAROTTI	ITALY
SICES SPA.	ITALY
SITICHEM	ITALY
VRV	ITALY
WALTER TOSTO	ITALY

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HITACHI KASODO JYUKOGYO	JAPAN
HITACHI Zosen	JAPAN
MITSUBISHI NAGASAKI MACHINERY MFG	JAPAN
TMC CORPORATION	JAPAN
DOOSAN MECATEC	S.KOREA
KNM	MALAYSIA
AXIS INDUSTRIAL SA DE CV	MEXICO
DAEKYUNG MACHINERY	S.KOREA
SEWON	S.KOREA
SUNG JIN	S.KOREA
IDESA	SPAIN
BOARDMAN	USA
BRIGHTON	USA
CHEM FAB	USA
CURTIS KELLY	USA
FABWELL	USA
GENERAL WELDING WORKS, INC.	USA
JETT WELD	USA
GEMSTAR	USA
TAPCO-ENPRO	USA
NINGBO TIANYI (SINOPEC OWNED)	CHINA
SINOPEC NANJING (SINOPEC OWNED)	CHINA
JIANGSU SUNPOWER	CHINA
FUSHUN MECHANICAL	CHINA

2.5 PRESSURE VESSEL, STAINLESS STEEL, MEDIUM UP TO 40 T

PREMAC S.A.	ITAGUI
VOEST ALPINE	AUSTRIA
BSL	FRANCE
LEFFER	GERMANY
WINKELS	GERMANY
LARSEN & TOUBRO	INDIA
ROLLE	ITALY
ATB RIVA CALZONI S.P.A.	ITALY

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BELLELI ENERGY	ITALY
C.I. CIVIDAC	ITALY
LUIGI RESTA	ITALY
MANGIAROTTI	ITALY
MARALDI	ITALY
VRV	ITALY
WALTER TOSTO	ITALY
HITACHI KASADO	JAPAN
HITACHI Zosen	JAPAN
mitsubishi NAGASAKI	JAPAN
MITSUI SHIPBUILDING	JAPAN
TMC CORPORATION	JAPAN
DOOSAN MECATEC	S.KOREA
IL SUNG ENGINEERING	S.KOREA
DAEKYUNG MACHINERY	S.KOREA
HYUNDAI HEAVY	S.KOREA
KNM	MALAYSIA
AXIS INDUSTRIAL SA DE CV	MEXICO
FELGUERA CALDERIA PERSADA	SPAIN
SANTAZ CENSA	SPAIN
IDESA	SPAIN
INTERNATIONAL COMBUSTION LTD	U.K.
JOSEPH OATES	USA
ALLOY WELDING	USA
BOARDMAN	USA
BRIGHTON	USA
CURTIS KELLY	USA
FABWELL	USA
GULF COAST ALLOY	USA
MITTERNIGHT	USA
TAYLOR FORGE	USA
WELFAB	USA
GEMSTAR	USA
TAPCO-ENPRO	USA
NINGBO TIANYI (SINOPEC OWNED)	CHINA
SINOPEC NANJING (SINOPEC OWNED)	CHINA

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JIANGSU SUNPOWER	CHINA
FUSHUN MECHANICAL	CHINA

2.6 PRESSURE VESSEL, STAINLESS STEEL, LARGE OVER 40 T

PREMAC S.A.	ITAGUI
VOEST ALPINE	AUSTRIA
G & G GELDOFF	BELGIUM
BSL	FRANCE
LEFFER	GERMANY
LARSONS & TOUBRO	INDIA
ATB RIVA CALZONI SPA	ITALY
BELLELI ENERGY	ITALY
LUIGI RESTA	ITALY
MANGIAROTTI	ITALY
NUOVO PIGNONE	ITALY
ZANON	ITALY
WALTER TOSTO	ITALY
IHI	JAPAN
HITACHI LTD	JAPAN
HITACHI Zosen	JAPAN
JAPAN STEEL WORKS/KOBE STEEL	JAPAN
mitsubishi heavy india.(HIROSHIMA)	JAPAN
mitsubishi NAGASAKI	JAPAN
MITSUI SHIPBUILDING	JAPAN
SUMITOMO HEAVY INDIA	JAPAN
TMC CORPORATION	JAPAN
DOOSAN MECATEC	S.KOREA
HYUNDAI HEAVY INDUSTRIES	S.KOREA
KNM	MALAYSIA
AXIS INDUSTRIAL SA DE CV	MEXICO
FELGUERA CALDERERIA	SPAIN
SANTAZ CENSA	SPAIN
IDESA	SPAIN
INTERNATIONAL COMBUSTION LTD.	U.K.

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BRIGHTON	USA
CURTIS KELLY INC	USA
MITTERNIGHT	USA
TAYLOR FORGE	USA
GEMSTAR	USA
TAPCO-ENPRO	USA
NINGBO TIANYI (SINOPEC OWNED)	CHINA
SINOPEC NANJING (SINOPEC OWNED)	CHINA
JIANGSU SUNPOWER	CHINA
FUSHUN MECHANICAL	CHINA

2.7 PRESSURE VESSELS, CLAD STEEL. SMALL & MEDIUM SIZES, UP TO 40 T

G&G GELDOF	BELGIUM
BSL INDUSTRIES S.A.	FRANCE
LEFFER	GERMANY
BOSCO	ITALY
C I CIVIDAC	ITALY
MANGIAROTTI	ITALY
MS	ITALY
NUOVO PIGNONE	ITALY
OFFICINE LUIGI RESTA S.P.A	ITALY
SICES S.P.A	ITALY
VRV	ITALY
HITACHI KASADO	JAPAN
HITACHI Zosen	JAPAN
KOBE STEEL	JAPAN
mitsubishi NAGASAKI	JAPAN
MITSUI SHIPBUILDING	JAPAN
KNM	MALAYSIA
DEAKYUNG MACHINERY LTD.	S.KOREA
DOOSAN MECATEC	S.KOREA
HYUNDAI HEAVY INDUSTRIES	S.KOREA
FELGUERA CALDERERIA PESADA	SPAIN
SANTAZ CENSA	SPAIN

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INTERNATIONAL COMBUSTION LTD	U.K.
BRIGHTON	USA
CURTIS KELLY INC.	USA
GA. MOSITES	USA
GENERAL WELDING WORKS, INC.	USA
TAYLOR FORGE	USA
VESSEL TECHNOLOGY	USA
NINGBO TIANYI (SINOPEC OWNED)	CHINA
SINOPEC NANJING (SINOPEC OWNED)	CHINA
JIANGSU SUNPOWER	CHINA
FUSHUN MECHANICAL	CHINA

2.8 PRESSURE VESSELS, HEAVY WALL, OVER 2.4 INCHES. (ALL MATERIALS)

G&G GELDOFF	BELGIUM
CMP DUNKERQUE	FRANCE
LEFFER	GERMANY
LARSEN & TOUBRO LIMITED	INDIA
ATB RIVA CALZONI	ITALY
BELLELI ENERGY	ITALY
MANGIAROTTI	ITALY
NUOVO PIGNONE (FORGED)	ITALY
HITACHI Zosen	JAPAN
JAPAN STEEL WORKS/KOBE STEEL (UP TO 450 MM)	JAPAN
MITSUBISHI HEAVY INDUSTRIES (UP TO 90 MM)	JAPAN
MITSUBISHI NAGASAKI MACHINERY MFG.	JAPAN
SUMITOMO HEAVY INDUSTRIES A542(UP TO 100MM)	JAPAN
HYUNDAI HEAVY INDIA.	S.KOREA
KNM	MALAYSIA
DOOSAN MECATEC	S.KOREA
FELGUERA (FELGUERA CALDERIA PESADA)	SPAIN
INTERNATIONAL COMBUSTION LTD.	U.K.
GENERAL WELDING WORKS, INC.	USA

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TAYLOR FORGE	USA
GULF COAST ALLOY	USA
FABWELL	USA
NINGBO TIANYI (SINOPEC OWNED)	CHINA
SINOPEC NANJING (SINOPEC OWNED)	CHINA
JIANGSU SUNPOWER	CHINA
FUSHUN MECHANICAL	CHINA

2.9 COLUMN DRAW-OFF AND CALMING SECTIONS AND HIFI

PROVETECMAR S.A.	COLOMBIA
STAHL GMBH	GERMANY
KOCH-GLITSCH	INTERNATIONAL
IEC (KOCH LICENSE)	JAPAN
SULZER U.S	USA
SULZER MEXICO	MEXICO
SULZER CHEMTECH B.V.	INTERNATIONAL
HANBAL METAL ENG. (NORTON'S LICENSE)	S.KOREA
PROCESS LICENSER BIDDER	
SUNKYOUNG ENG. & CONST.(GLITSCH'S LICENSE)	S.KOREA
NORTON CHEMICAL PROCESS	USA
ACS	USA
INDUSTRIAL ALLOY FABRICATION	USA
AKER SOLUTIONS	USA
UOP	USA/BELGIUM

2.10 SCHOEPENTOETERS – VANE TYPE

PROVETECMAR S.A.	COLOMBIA
KOCH/GLITSCH	INTERNATIONAL
BURGESS MANNING, INC.	INTERNATIONAL
IEC (KOCH LICENSE)	JAPAN
NORTON CHEMICAL PROCESS	USA

2.11 DEMISTING SCREENS – METAL/SYNTHETIC

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PROVETECMAR S.A.	COLOMBIA
YORK-KOCH-OTTO YORK(KOCH/GLITSCH)	INTERNATIONAL
LECHLER	INTERNATIONAL
MUNTERS	INTERNATIONAL
THODIUS	GERMANY
TISSMETAL	GERMANY
GLITSCH ITALIANA	ITALY
KNITMESH TECHNOLOGIES	U.K.
ACS SEPARATIONS & MASS TRANSFER PRO.	USA
AMISTCO SEPARATION PRODUCTS	USA
SULZER CHEMTECH	USA
JOHNSON SCREENS	INTERNATIONAL
KOCH/GLITSCH	INTERNATIONAL
PEERLESS MFG. CO.	USA

2.12 PACKING

PROVETECMAR S.A.	COLOMBIA
RASCHIG	GERMANY
KOCH-GLITSCH	INTERNATIONAL
SULZER U.S.	USA
SULZER MEXICO	MEXICO
NORTON CHEMICAL PROCESS	USA

2.13 VANE OR OTHER PROPRIETARY INTERNALS

PROVETECMAR S.A.	COLOMBIA
PECO- FGC	USA
PEERLESS MFG. CO.	USA
SEPARATION TECHNOLOGIES LLC	USA
YORK KOCH-OTTO YORK (KOCH/GLTISCH)	INTERNATIONAL
KOCH GLITSCH	INTERNATIONAL
JOHNSON SCREENS	USA

3 GROUP – FURNACES

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3.1 REGENERANT FURNACES LESS THAN 20 MM BTU/HR

	HEURTEY AND PETROCHEM GROUP	INTERNATIONAL
	SELAS KIRCHNER	GERMANY
*	SELAS LINDE	GERMANY
	FOSTER WHEELER	INTERNATIONAL
	TECHNIP KTI	INTERNATIONAL
*	KIRCHNER ITALIA SPA	INTERNATIONAL
*	VERGA ENGINEERING	INTERNATIONAL
	FURNACE ENGINEERING	AUSTRALIA
	JGC CORPORATION	JAPAN
	JNK HEATERS CO. LTD.	S.KOREA
*	TECNICAL (TECNICAS REUNIDAS)	SPAIN
	BOUSTEAD INTERNATIONAL HEATERS	U.K.
*	CBI LUMMUS	USA
	PETRO-CHEM	USA
	SELAS FLUID PROCESSING	USA
	TULSA HEATER INC. (THI)	USA
	AMERICAN HEATING INC.	USA
	BROACH PROCESS HEATERS	USA
	EXOTHERM CORP (UNIFLUX)	USA
	EXPRESS INTEGRATED TECHNOLOGIES	USA
	OPTIMIZED PROCESS FURNACES (OPF)	USA

3.2 REGENERANT FURNACES MORE THAN 20 MM BTU/HR

*	HEURTY AND PETROCHEM GROUP	INTERNATIONAL
*	FOSTER WHEELER	INTERNATIONAL
	JOHN ZINK	INTERNATIONAL
*	KTI CORP.	INTERNATIONAL
	NAO (National Air Oil) INC.	INTERNATIONAL
	HAMWORTHY-PEABODY COMBUSTION INC.	INTERNATIONAL
*	VERGA ENGINEERING	INTERNATIONAL

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*	TECHNICAL (TECHNICAS REUNIDAS)	SPAIN
	CALLIDUS TECHNOLOGIES	USA
	ZEECO INC.	USA
	EXOTHERM CORPORATION (UNIFLUX)	USA
	OPTIMIZED PROCESS FURNACES (OPF)	USA
	BOUSTEAD INTERNATIONAL HEATERS	UK
	SELAS FLUID PROCESSING	USA

3.3 BURNERS ETC

PROVETECMAR S.A.	COLOMBIA
JGC CORP.	JAPAN
NIPPON FURNACE	JAPAN
KTI CORP.	INTERNATIONAL
CLAUDIUS PETERS TECHNOLOGIES	INTERNATIONAL
HOVAL	INTERNATIONAL
BIRWELCO	INTERNATIONAL
FOSTER WHEELER	U.K./FRANCE/USA
JOHN ZINK	USA
ZEECO INC.	USA
CBI LUMMUS	USA
SELAS FLUID PROCESSING	USA
HAMWORTHY COMBUSTION ENGINEERING LTD.	USA
MAXON CORPORATION	USA
BROWN FIRED HEATER (ENERCON SYSTEMS)	USA

3.4 THERMAL OXIDIZERS / INCINERATORS

	PROVETECMAR S.A.	COLOMBIA
	EET	FRANCE
	JOHN ZINK	INTERNATIONAL
*	GBA FLARE SYSTEM or GBA-CORONA USA	INTERNATIONAL
*	ITAS	ITALY
*	THERMO ENGINEERING SRL	ITALY
*	HAMWORTHY COMBUSTION ENGINEERING LTD.	U.K.
	FLARE GAS CORP.	USA

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	NAO (NATIONAL AIR OIL) INC.	USA
	CALLIDUS TECHNOLOGIES	USA
*	ZEECO INC	USA
	SELAS FLUID PROCESSING	USA
	AGRA	USA
	MRW TECHNOLOGIES	USA

3.5 FLARE & STACK

	PROVETECMAR S.A.	COLOMBIA
	HTI GESAB	GERMANY
*	NESS	GERMANY
	KIRCHNER ITALIA SPA	ITALY
	TULSA HEATER INC. (THI)	USA
	BROACH PROCESS HEATERS	USA
	OPTIMIZED PROCESS FURNACES (OPF)	USA
	HEAT RECOVERY CORP	USA
	FLARE INDUSTRIES	USA
	MRW TECHNOLOGIES	USA
	FLAREGAS CORP.	USA

3.6 ELECTRIC HEATERS

PROVETECMAR S.A.	COLOMBIA
CHROMALOX PRECISION HEAT AND CONTROLS	INTERNATIONAL
TYCO THERMAL CONTROLS	INTERNATIONAL
ARMSTONG ENGINEERING	INTERNATIONAL
WELLMAN FURNACES INC.	USA
GAUMER PROCESS	USA
CALORITECH	USA

3.7 DEFROST GAS HEATERS

PROVETECMAR S.A.	COLOMBIA
CHROMALOX PRECISION HEAT AND CONTROLS	INTERNATIONAL
GAUMER	USA

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RAYCHEM USA
CHROMALOX INTERNATIONAL

3.8 HEATERS (HOT OIL & GAS)

PROVETECMAR S.A. COLOMBIA
CHROMALOX PRECISION HEAT AND CONTROLS INTERNATIONAL
V R INGENIERIA COLOMBIA
CLYDE BERGEMAN USA
SELAS FLUID PROCESSING USA
BORN CANADA (ONQUEST) CANADA
KTI CORPORATION JAPAN
PETROLCHEM DEVELOPMENT USA

3.9 HEATER ANCILLARY EQUIPMENT

CHROMALOX PRECISION HEAT AND CONTROLS INTERNATIONAL

4.0 GROUP – ROTATING

WARREN RUPP, INC. USA

4.1 DIAPHRAGM PUMP

PROVETECMAR S.A. COLOMBIA
INGLOTECH COLOMBIA S.A.S. COLOMBIA
AUGE INDUSTRIAL FASTENERS USA

4.2 PUMPS, CENTRIFUGAL, HORIZONTAL SINGLE & MULTISTAGE, API 610

PROVETECMAR S.A. COLOMBIA
AUGE INDUSTRIAL FASTENERS USA
PUMP SOLUTION, INC. USA
CPC CANADA
ALSTHOM FLUIDES AND MECHANIQUE FRANCE
INTERPEC/SUNSTRAND FRANCE

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	ENSIVAL MORET KETNER	FRANCE/BELGIUM
	KSB	GERMANY
	DAVID BROWN PUMPS	INTERNATIONAL
	EBARA	INTERNATIONAL
	FLOWERVE	INTERNATIONAL
	RUHRPUMPEN	INTERNATIONAL
	SULZER	INTERNATIONAL
	BGABBIONETA POMPES SPA	ITALY
*	FINDER	ITALY
	NUOVO PIGNONE SPA.	ITALY
	TERMOMECHANICA	ITALY
	DENGYOSH	JAPAN
	NIIGATA WORTHINGTON	JAPAN
	NIKKISO	JAPAN
	SHIN NIPPON	JAPAN
	TORISHIMA PUMP MFG. CO. LTD.	JAPAN
	PUMP ITUR	SPAIN
	SPP LIMITED	U.K.
	WEIR	U.K.
	ITT GOULDS	USA
	UNITED	USA
	NATIONAL PUMP COMPANY	USA

4.3 PUMPS, CENTRIFUGAL, AGRU SERVICES, API 610

PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
PUMP SOLUTION, INC.	USA
FLOWERVE	INTERNATIONAL
EBARA	INTERNATIONAL
RUHRPUMPEN	INTERNATIONAL
KSB	JAPAN

4.4 PUMPS, CENTRIFUGAL, VERTICAL SUBMERGED, API 610 (RADIAL SPLIT)-SEA WATER PUMPS

PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA

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PUMP SOLUTION, INC.	USA
FLOWERVE	INTERNATIONAL
SULZER	INTERNATIONAL
EBARA	INTERNATIONAL
RUHRPUMPEN	INTERNATIONAL
KSB	JAPAN
PEERLESS PUMPS	USA
ITT GOULDS	USA

4.5 PUMPS, HIGH SPEED

PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
AUROR (PENTAIR WATER)	USA
ITT GOULDS	USA
FAIRBANKS MORSE	USA
FLOWERVE CORPORATION	USA
PEERLESS PUMPS	USA
NIKKISO (SUNDSTRAND LICENSE)	JAPAN
SUNDYNE-MARELLI Formerly SUNDYNE /	USA/FRANCE
SUNSTRAND	

4.6 CENTRIFUGAL PUMPS (NON API)

	PROVETECMAR S.A.	COLOMBIA
	AUGE INDUSTRIAL FASTENERS	USA
*	STERLING	ENG
*	ATURIA	ITALY
*	GARARINO	ITALY
*	ROBUSCHI	ITALY

4.7 VERTICAL IN-LINE PUMPS (BS 4082.CLASS R)

PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
PUMP SOLUTION, INC.	USA

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DAVID BROWN GUINARD PUMPS	FRANCE
SULZER PUMPS	FRANCE
KSB	GERMANY
FLOW SERVE	INTERNATIONAL
EBARA	INTERNATIONAL
ARAI PUMP MFG CO. LTD.	JAPAN
SHIN NIPPON	JAPAN
ITT GOULDS	USA

4.8 PUMPS, ROTARY SINGLE SCREW (PROGRESSIVE CAVITY)

	PROVETECMAR S.A.	COLOMBIA
	INGLOTECH COLOMBIA S.A.S.	COLOMBIA
	AUGE INDUSTRIAL FASTENERS	USA
*	SEEPEX	BELGIUM
*	BOMBAS ITUR	ESP
	ALLWEILER	GERMANY
*	BOC EDWARDS	INTERNATIONAL
*	COLFAX	INTERNATIONAL
*	LEWA	INTERNATIONAL
*	ASCO	ITALY
	KAWASAKI HEAVY INDUSTRIES	JAPAN
	IMO	SWEDEN
	MEERLLES	U.K.
*	GORMANN-RUPP	USA

4.9 PUMPS, (SUMP TYPE)

PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
PUMP SOLUTION, INC.	USA
HERMETIC	GERMANY
KSB/GUINARD	GERMANY
DAVID BROWN PUMPS	INTERNATIONAL
FLOWSERVE	INTERNATIONAL

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EBARA	INTERNATIONAL
GABBION ETA	ITALY
ARAI PUMP MFG. CO. LTD	JAPAN
DENGYOSHA	JAPAN
NIKKISO	JAPAN
SHIN NIPPON	JAPAN
RUTSHCI	FRANCE
ENSIVAL MORET KESTNER	SINGAPORE/FRANCE
SULZER	SWITZERLAND
WEIR	U.K.
ITT GOULDS	USA

4.10 PUMPS, ASME B73

AUGE INDUSTRIAL FASTENERS	USA
RUHRPUMPEN	INTERNATIONAL
ITT GOULDS	USA
FLOW SERVE	USA
PEERLESS PUMPS	USA

4.11 RECIPROCATING DOSING PUMPS

	PROVETECMAR S.A.	COLOMBIA
	INGLOTECH COLOMBIA S.A.S.	COLOMBIA
	AUGE INDUSTRIAL FASTENERS	USA
	PUMP SOLUTION, INC.	USA
	CLEXTRAL	FRANCE
*	CLYDEUNION PUMPS	USA
	BRAN AND LUEBBE	GERMANY
*	HERMETIC PUMPEN	GERMANY
*	PLEUGER WORTHINTON – Flowserve Group	GERMANY
*	STERLING SIHI	GERMANY
*	SULZER PUMPEN	GERMANY
	URACA	GERMANY
*	DOSAPRO MILTON ROY	INTERNATIONAL
	FLOWSERVE	INTERNATIONAL

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*	KSB PUMPS	INTERNATIONAL
*	VIKING	INTERNATIONAL
	VOLU MAX	INTERNATIONAL
*	FINDER POMPE	ITALY
*	OMG	ITALY
*	BENELLI RAVENNA	ITALY
	PERONI	ITALY
*	SEKO BONO	ITALY
*	WEIR GABBIONETA	ITALY
*	DKM	JAPAN
	NIKKISO	JAPAN
	CRANE CO. CHEMPUMP DIVISION	USA
	HILLS MCCANNA	USA
	MILTON ROY	USA
	WILLIAMS	USA
*	JOHNSON MARCH	USA
	PULSAFEEDER	USA

4.12 ROTARY POSITIVE DISPLACEMENT PUMPS (PERISTALTIC)

PROVETECMAR S.A.	COLOMBIA
INGLOTECH COLOMBIA S.A.S.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
ALLWEILER	GERMANY
FLOWSERVE	INTERNATIONAL
TAIKO KIKAI INDIA. CO. LTD	JAPAN
MO	SWEDEN
THE ALBANY ENGINEERING CO. LTD	U.K.
IMO	USA
VIKING	USA
BLACKMER PUMPS	USA
PULSAFEEDER	USA

4.13 SEALESS PUMP (MAGNETIC DRIVE)

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AUGE INDUSTRIAL FASTENERS	USA
NANIWA PUMP	JAPAN
NIKKISO	JAPAN
FLOWSERVE	INTERNATIONAL
ITT GOULDS	USA
SUNDSTRAND	USA

4.14 SULFUR PUMP

AUGE INDUSTRIAL FASTENERS	USA
HAYWARD GORDON LTD	CANADA
ENSIVAL MORET KESTNER	FRANCE
SHIN NIPPON MACHINERY CO. LTD.	JAPAN
FRIATEC	GERMANY
CHAS S. LEWIS & CO. LTD.	USA
LAWRENCE PUMPS INC.	USA
STERLING LABOUR PUMP PRODUCTS	USA

4.15 FIREWATER PUMPS

AUGE INDUSTRIAL FASTENERS	USA
EBARA FLUID HANDLING	INTERNATIONAL
SPP PUMPS	INTERNATIONAL
PEERLESS PUMPS	USA
GOULDS PUMPS, INC.	USA

4.16 COMPRESSORS, CENTRIFUGAL, IN ACCORDANCE WITH API 617

PROVETECMAR S.A.	COLOMBIA
NUOVO PIGNONE	ITALY
HITACHI	JAPAN
MES- MITSUI ENG. & SHIPBUILDING CO. LTD.	JAPAN
MITSUBISHI HEAVY INDUSTRIES LTD. (MHI)	JAPAN
KOBELCO – KOBE STEEL GROUP	JAPAN
DRESSER- RAND	INTERNATIONAL

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ELLIOT-EBARA GROUP	INTERNATIONAL
SIEMENS DEMAG DELAVAL TURBOMACHINERY	INTERNATIONAL
MAN TURBO	SWITZERLAND
AC COMPRESSORS	USA
SOLAR TURBINES, INC.	USA

4.17 COMPRESSORS, INTEGRALLY GEARED, (PROCESS) API 672

PROVETECMAR S.A.	COLOMBIA
GHH BORSIG TURBOMASCHINEN GMBH	GERMANY
NUOVO PIGNONE	ITALY
KOBELCO- KOBE STEEL GROUP	JAPAN
SULZER	SWITZERLAND
COOPER INDUSTRIES	USA
ATLAS COPCO	INTERNATIONAL
SUNDYNE CORP.	INTERNATIONAL
DEMAG DELAVAL TURBOMACHINERY INC.	INTERNATIONAL

4.18 COMPRESSORS, INSTRUMENT AIR COMPRESSORS, A1014 API 617

PROVETECMAR S.A.	COLOMBIA
COOPER-JOY	USA
FS- ELLIOTT	USA
SULLAIR	USA
DEMAG DELAVAL TURBOMACHINERY, INC.	INTERNATIONAL
CAMERON	INTERNATIONAL
ATLAS COPCO	INTERNATIONAL
DRESSER-RAND	INTERNATIONAL

4.19 COMPRESSORS, RECIPROCATING, TO API 618

PROVETECMAR S.A.	COLOMBIA
NEUMAN & ESSER GROUP	GERMANY
NUOVO PIGNONE	ITALY
IHI	JAPAN

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MITSUI & CO.	JAPAN
KOBELCO – KOBE STEEL GROUP	JAPAN
COOPER INDUSTRIES	USA
ARIEL CORP.	USA
DRESSER-RAND	INTERNATIONAL
BURCKHARDT COMPRESSION	INTERNATIONAL
PETER BROTHERHOOD LTD.	U.K.
TOROMONT SYSTEMS	USA

4.20 **GAS TURBINES, POWER GENERATION UNITS (SIMILAR G.E. LM 2500+)**

	PROVETECMAR S.A.	COLOMBIA
	SIEMENS	INTERNATIONAL
	THE ABB GROUP	INTERNATIONAL
	GENERAL ELECTRIC	INTERNATIONAL
*	ELLIOTT EBARA GROUP	INTERNATIONAL
*	ALSTOM	INTERNATIONAL
*	MAN TURBO	INTERNATIONAL
*	ANSALDO ENERGIA	ITALY
	MITSUBISHI HEAVY INDUSTRIES, LTD. (MHI)	JAPAN
*	ROLLS ROYCE	U.K.
*	SOLAR TURBINES, INC.	USA

4.21 **ELECTRIC MOTORS (API 541)**

	PROVETECMAR S.A.	COLOMBIA
	SCHORCH	GERMANY
	THE ABB GROUP	INTERNATIONAL
	SIEMENS	INTERNATIONAL
	ALSTHOM	INTERNATIONAL
	GENERAL ELECTRIC	INTERNATIONAL
*	BALDOR	INTERNATIONAL
	HITACHI	JAPAN
	MELCO	JAPAN
	TOSHIBA	JAPAN

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*	HYUNDAI	S.KOREA
	RELIANCE	USA
	WESTINGHOUSE	USA
*	US MOTORS	USA
*	WEG ELECTRICAL MOTORS	USA

4.22 ELECTRIC MOTORS (IEEE 841)

PROVETECMAR S.A.	COLOMBIA
WEG ELECTRICAL MOTORS	BRAZIL
LOHER (MOTOREDUCTORS)	GERMANY
GENERAL ELECTRIC	INTERNATIONAL
TOSHIBA	JAPAN
BALDOR	INTERNATIONAL
SIEMENS	INTERNATIONAL
TECO-WESTINGHOUSE	USA
US MOTORS	USA

4.23 ELECTRIC MOTORS (API 546)

	PROVETECMAR S.A.	COLOMBIA
	CONVERTEAM	FRANCE
*	SCHORCH	GERMANY
*	ANSALDO ENERGIA	ITALY
	GENERAL ELECTRIC	INTERNATIONAL
*	HYUNDAI	INTERNATIONAL
	THE ABB GROUP	INTERNATIONAL
*	BALDOR	INTERNATIONAL
	SIEMENS	INTERNATIONAL
*	TECO-WESTINGHOUSE	INTERNATIONAL
*	WEG ELECTRICAL MOTORS	INTERNATIONAL
*	mitsubishi electric	JAPAN
*	TOSHIBA	JAPAN

4.24 ELECTRIC GENERATORS (3000 KW AND

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SMALLER)

PROVETECMAR S.A.	COLOMBIA
THE ABB GROUP	INTERNATIONAL
JEUMONT	INTERNATIONAL
SIEMENS	INTERNATIONAL
MELCO	JAPAN
BRUSH	USA
KATO ENG. INC.	USA
ONAN	USA
STEWART STEVENSON	USA
DETROIT DIESEL CORP.	USA
CAT	USA

4.25 ELECTRIC GENERATORS (LARGER THAN 3000 KW)

PROVETECMAR S.A.	COLOMBIA
JEUMONT ELECTRIC	EUROPE
GEC ALSTHOM	FRANCE
SIEMENS	INTERNATIONAL
ANSALDO ENERGIA	ITALY
HITACHI	JAPAN
MELCO	JAPAN
MITSUBISHI HEAVY INDUSTRIES, LTD.	JAPAN
THE ABB GROUP	INTERNATIONAL
BRUSH	USA

4.26 EXPANDERS – TURBINES, LIQUID, CRYOGENIC

PROVETECMAR S.A.	COLOMBIA
FLOWERVE	INTERNATIONAL
EBARA	INTERNATIONAL
* GE – NUOVO PIGNONE	INTERNATIONAL
* ATLAS COPCO (MAFI TRENCH) LLC	INTERNATIONAL
* SIEMENS	INTERNATIONAL

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* MAN TURBO INTERNATIONAL

4.27 CENTRIFUGAL COMPRESSORS, API 617 – EXCEPT MR TYPE

PROVETECMAR S.A.	COLOMBIA
FRAMATOME (THERMODYNE)	FRANCE
INTERPEC/SUNDSTRAND	FRANCE
DEMAG	GERMANY
ALSTHOM ENERGIE	INTERNATIONAL
EBARA (ELLIOT LICENSE)	INTERNATIONAL
NUOVO PIGNONE GE	ITALY
HITACHI LTD	JAPAN
ISHIKAWAJIMA-HARIMA HEAVY INDUSTRIES (IHI)	JAPAN
mitsubishi heavy industries	JAPAN
SULZER	SWITZERLAND
DRESSER-RAND	USA
ELLIOTT TURBO MACHINERY	USA
MO	USA

4.28 SCREW AIR COMPRESSOR (INTEGRAL GEAR)

PROVETECMAR S.A.	COLOMBIA
AERZENER MASCHINFABRIK GMBH	GERMANY
HOWDEN	INTERNATIONAL
* MYCOM	INTERNATIONAL
SULLAIR	INTERNATIONAL
* COMPARE	INTERNATIONAL
* CAMERON TURBOCOMPRESSOR	INTERNATIONAL
* BOGE	INTERNATIONAL
KOBELCO – KOBE STEEL GROUP	JAPAN
ATLAS COPCO	USA
* GARDNER DENVER	USA

4.29 PROCESS SCREW COMPRESSORS

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	PROVETECMAR S.A.	COLOMBIA
	KOBELCO – KOBEL STEEL GROUP	JAPAN
	GE	USA
*	COMPARE	INTERNATIONAL
*	COOPER TURBOCOMPRESSOR	INTERNATIONAL
*	BOGE	ITALY
	KOBE	JAPAN
	ATLAS COPCO	USA
*	GARDNER DENVER	USA
	SULLAIR	USA

4.30 AIR COMPRESSORS/BLOWERS/FANS

	PROVETECMAR S.A.	COLOMBIA
*	HVTURBO	DENMARK
	ABB-NEU	FRANCE
*	PILLER	GERMANY
*	CBI	INTERNATIONAL
	EBARA	INTERNATIONAL
*	HOWDEN	INTERNATIONAL
*	AEROMECCANICA STRANICH	ITALY
*	BOLDROCCHI	ITALY
*	ROBUSCHI	ITALY
	HICK KARGRAUES	U.K.
	DRESSER HOLMES	U.K./USA
	CHICAGO BLOWER	USA
	COMEC G.E.	USA
*	GARDNER DENVER	USA
	ROBINSON	USA
	ROOTS	USA
	T.D. WILLIAMSON. INC.	USA
	DRESSER RAND	USA/FRANCE
	SUNDYNE	USA

4.31 STEAM TURBINES (GENERAL PURPOSE) WITH API 611

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	PROVETECMAR S.A.	COLOMBIA
	THERMODYNE	FRANCE
	EBARA (ELLIOTT LICENSE)	INTERNATIONAL
*	GE - NUOVO PIGNONE	INTERNATIONAL
*	MAN TURBO	INTERNATIONAL
*	SIEMENS	INTERNATIONAL
*	FINCANTIERI	ITALY
*	HITACHI	JAPAN
*	MHI	JAPAN
	SHIN NIPPON MACHINERY	JAPAN
	COPPUS	USA
	DRESSER RAND	USA
	ELLIOTT	USA

4.32 STEAM TURBINES (SPECIAL PURPOSE) WITH API 612

	PROVETECMAR S.A.	COLOMBIA
	DRESSER RAND	INTERNATIONAL
*	ELLIOT EBARA	INTERNATIONAL
*	GE POWER / NUOVO PIGNONE	INTERNATIONAL
*	MAN TURBO	INTERNATIONAL
*	SIEMENS	INTERNATIONAL
*	MHI	INTERNATIONAL
*	FINCANTIERI	ITALY

4.33 GEARBOXES, GENERAL PURPOSE

PROVETECMAR S.A.	COLOMBIA
GRAFFENSTADER	FRANCE
FLENDER	GERMANY
RENK-TACKE	GERMANY
LUKFIN	USA
SUMITOMO	USA

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PITTSBURG GEAR	USA
PHILADELPHIA GEAR	USA

4.34 GEARBOXES, API 613

PROVETECMAR S.A.	COLOMBIA
FLENDER-FRAFFESTADEN (ONLY FOR GTG)	FRANCE
BHS/VOITH	GERMANY
RENK-TACKE	GERMANY
MAAG	SWITZERLAND
LUFKIN	USA
SUMITOMO	USA

4.35 DIESEL ENGINES AND DIESEL ENGINE GENERATOR DRIVERS, FOR 250 KW AND OVER

PROVETECMAR S.A.	COLOMBIA
WARSILA	FINLAND
MANN	GERMANY
MITSUBISHI	JAPAN
SULZER	SWITZERLAND
GEC ALSTHOM	U.K.
CATAPILLAR	USA
CUMMINS	USA
DETROIT DIESEL	USA

4.36 COUPLINGS (FOR COMPRESSORS)

PROVETECMAR S.A.	COLOMBIA
EAGLE-NSO	JAPAN
TRW-LUCAS	USA
KOP-FLEX (EMERSON)	USA

4.37 MECHANICAL SEALS

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	PROVETECMAR S.A.	COLOMBIA
	FLEXIBOX	GERMANY
*	EAGLE BURGMANN	INTERNATIONAL
*	FLOWSERVE	INTERNATIONAL
*	JOHN CRANE	INTERNATIONAL

4.38 CENTRIFUGAL & AXIAL (FOR PROCESS GAS)

	PROVETECMAR S.A.	COLOMBIA
	DRESSER RAND	INTERNATIONAL
*	ELLIOTT EBARA TURBOMACHINERY	INTERNATIONAL
*	SIEMENS / DEMAG	INTERNATIONAL
*	SUNDYNE	INTERNATIONAL
*	GE / NUOVO PIGNONE	INTERNATIONAL
*	MAN TURBO	INTERNATIONAL
*	MITSUBISHI HEAVY INDUSTRIES	INTERNATIONAL
*	HITACHI	JAPAN

4.39 CENTRIFUGAL (API 672) PLANT & INSTRUMENT AIR

	PROVETECMAR S.A.	COLOMBIA
	ATLAS COPCO	INTERNATIONAL
*	BOGE	INTERNATIONAL
*	COMPARE	INTERNATIONAL
*	INGERSOLL RAND	INTERNATIONAL
*	MAN TURBO	INTERNATIONAL
*	SULLAIR	INTERNATIONAL
*	FS ELLIOTT	USA
*	GARDNER DENVER	USA

4.40 RECIPROCATING (FOR PROCESS GAS)

	PROVETECMAR S.A.	COLOMBIA
	DRESSER RAND	INTERNATIONAL

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*	GE / NUOVO PIGNONE	INTERNATIONAL
*	HOWDEN BC	INTERNATIONAL
*	NEUMAN & ESSER	INTERNATIONAL
*	SIAD	ITALY
*	KOBE	JAPAN
*	THE JAPAN STEEL WORKS (JSW)	JAPAN
*	BURCKHARDT COMPRESSORS	SWEDEN
*	PETER BROTHERHOOD	U.K.

4.41 API 685 – CANNED PUMPS

PROVETECMAR S.A.	COLOMBIA
NIKKISO	JAPAN
HERMETIC	GERMANY
TEXAS PROCESS EQUIPMENT	USA
TEIKOKU USA, INC	USA
TRUFLO	USA

5 GROUP – SPECIAL EQUIPMENT

5.1 INTERCEPTORS/CORRUGATES PLATES (CPI)

PROVETECMAR S.A.	COLOMBIA
GUIGUES	FRANCE
VEREINIGTE KESSELWERKE (VKW)	GERMANY
PALADON	U.K.
ENGINEERING SPECIAL TIES INC. (ESI)	USA
GREAT LAKES ENVIRONMENTAL	USA
MONARCH SEPARATORS	USA
SMITH & LOVELESS	USA
TAYLOR-FORGE	USA

5.2 DESALINATION UNITS

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*	PROSERNAT	FRANCE
	ENTROPIE	FRANCE
	PERMO BWT	FRANCE
	SIDEM	FRANCE
	ALFA LAVAL	INTERNATIONAL
	BOSCO INDUSTRIES MECCANICHE SPA.	ITALY
	FANTUZZI REGGIANE	ITALY
	SASAKURA	JAPAN
	WEIR WESTGARTH LTD	U.K.
	AQUA CHEM	USA
	BEAIRD	USA
	MECO	USA
	SIEMENS	GERMANY

5.3 SEA WATER SCREEN EQUIPMENT

BEAUDREY	FRANCE
DEGREMONT SA	FRANCE
MATERIEL PERIER	FRANCE
THERMAX BABCOCK LIMITED	INDIA
MITSUBISHI KAKOKI	JAPAN
UBE INDUSTRIES	JAPAN
SEOUL PLANT ENG & CONST CO LTD	S.KOREA
BLAKE BOROUGH	U.K.
BRACKETT GREEN	U.K.
JOHNSON SCREENS	USA
US FILTER	USA

5.4 ELECTRO-CHLORINATION UNITS

MACKENZIE HYDOCARBONS	AUSTRALIA
KREBS SPEICHIM	FRANCE
METITO	INTERNATIONAL

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ORONZIO DE NORA (SUBJECT TO EVALUATION)	ITALY
CHLORNE ENGINEERS	JAPAN
DAIKI	JAPAN
DENORA	SINGAPORE
ELECTRO CATLYTIC	U.K./USA
BAKER HUGHES PROCESS SYSTEMS	USA
EXCELTEC INTERNATIONAL	USA
US FILTER	USA

5.5 ION EXCHANGER SOFTENER

	ECODYNE LTD.	CANADA
*	DORR OLIVER EIMCO	EU
*	SIEMENS	EU
	PERMO	FRANCE
	DEGREMONT	INTERNATIONAL
*	VEOLIA	INTERNATIONAL
	IONICS ITALBA	ITALY
*	ARTES	ITALY
*	TERMOKIMIK	ITALY
*	WTD	ITALY
	PWT PROJECT	U.K.
	GRAVER	USA
	ECO-TEC INC.	CANADA

5.6 CHEMICAL INJECTION PACKAGES

ANDERSON WATER	CANADA
ECODYNE SYSTEMS LTD	CANADA
GACO	CANADA
DOSAPRO MILTON ROY	FRANCE
SITE	FRANCE
LEWA	INTERNATIONAL
DEGREMONT	INTERNATIONAL
METITO	INTERNATIONAL
SEKO BONO EXACTA	ITALY

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PERONI POMPE	ITALY
TERMOKIMIK CORPORATION	ITALY
KU RITA	JAPAN
NIKKISO	JAPAN
SAKURA	JAPAN
SATEC	U.K.
BRAN AND LUBBE	INTERNATIONAL
PROGRESSIVE WATER TREATMENT	USA
AQUATECH	USA
EMCO ENGINEERING	USA
JOHNSON MARCH SYSTEMS, INC.	USA
LUBRICATION SYSTEMS COMPANY	USA
NEPTUNE CHEMICAL PUMP	USA

5.7 INSTRUMENT AIR DRYERS

	AIRDYNE. INC.	FRANCE
	AIRPACK	INTERNATIONAL
	TIDE-AIR. INC.	INTERNATIONAL
	AIRTEK	INTERNATIONAL
	SULLAIR	INTERNATIONAL
*	PREMABERGO	ITALY
*	BENELLI RAVENNA	ITALY
	BURNETT & LEWIS	U.K.
	DELAIR	U.K.
	GOHIN POULENC	U.K.
	IMPIANTI SISTEMA GEL SRL (ISG)	ITALY
	SPX KEMP	USA
	SILICAGEL BERLIN	USA
	PNEUMATECH	USA
	SHIRAKAWA	JAPAN
	SILICAIR DRYERS	U.K.

5.8 VACUUM PACKAGE

PROVETECMAR S.A.	COLOMBIA
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	DEGREMONT	USA
*	ENSIVAL-MORET	BELGIUM
	SIEMENS	GERMANY
	GEA WIEGAND	GERMANY
*	KORTING	GERMANY
*	BOC EDWARDS HICK HARGREAVES	INTERNATIONAL
*	FLUIDEL	ITALY
*	SCAM	ITALY
	SHIN NIPPON MACHINERY CO. LTD	JAPAN
	GARDNER DENVER NASH	U.K.
*	VENTURI JET PUMPS	U.K.
	GRAHAM MANUFACTURING	INTERNATIONAL

5.9 STEAM-VACUUM CONDENSERS

PROVETECMAR S.A.	COLOMBIA
BLACKE-DURR	GERMANY
SUMITOMO HEAVY ND	JAPAN
AMBASSADOR HEATTRANSFER	USA

5.10 NITROGEN PRODUCTION UNITS (AND NITROGEN STORAGE/VAPORIZER PACKAGE)

PCI	USA
L'AIR LIQUIDE	FRANCE
LINDE	GERMANY
SIAD MACCHINE IMPNTI	ITALY
AIR PRODUCTS	INTERNATIONAL
BOC	U.K.
COSTAIN	U.K.
PRAXAIR	USA
TAYLOR WHARTON	USA

5.11 PROCESS FILTERS

MES- MITSUI ENG. & SHIPBUILDING CO. LTD.	JAPAN
FILTRATION SA	FRANCE

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ATLANTIC GERATEBAU	GERMANY
BOLL & KIRCH	GERMANY
AMF	INTERNATIONAL
FILTREX	INTERNATIONAL
CENTRAL FILTER	JAPAN
FUJI FILTER	JAPAN
WAKO FILTER TECHNOLOGY CO., LTD.	JAPAN
FLOWTECH	U.K.
PLENTY	U.K.
VOKES	U.K.
DOLLINGER INTERNATIONAL	USA
CM KEMP	USA
FRAM	USA
KING TOOL	USA
PALL	USA
PEARLESS MANUFACTURING	USA
PECO (PERRY EQUIPMENT)	INTERNATIONAL
RONNINGEN PETTER EATON	INTERNATIONAL
SOUTHWEST FILTER	
WINSTON F2S CORPORATION	USA
CUNO	USA

5.12 BACKWASH FILTERS

	MES- MITSUI ENG. & SHIPBUILDING CO. LTD.	JAPAN
*	MERICHEM	INTERNATIONAL
*	PETRECO INTERNATIONAL	INTERNATIONAL
*	PROSERMAT	INTERNATIONAL
*	RPA EATON	INTERNATIONAL
*	FACET	INTERNATIONAL
*	PALL	INTERNATIONAL
*	PROGUARD	USA

5.13 PACKAGED EQUIPMENT, AIR FILTERS

PROVETECMAR S.A.	COLOMBIA
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MES- MITSUI ENG. & SHIPBUILDING CO. LTD.	JAPAN
DONALDSON (ONLY)	BELGIUM/ USA
PALL CORPORATION	USA

5.14 BAG FILTER

MES- MITSUI ENG. & SHIPBUILDING CO. LTD.	JAPAN
* BETH UMWELTTECHNIK	GERMANY
* INTENSIV-FILTER	GERMANY
* LHS CLEAR AIR SYSTEMS	GERMANY
* DONALDSON FILTRATION SOLUTIONS	INTERNATIONAL
* AEROMECCANICA STRANICH	ITALY

5.15 SANITARY TREATMENT EQUIPMENT, INCLUDING LIFT STATIONS

PROVETECMAR S.A.	COLOMBIA
OWENS KLEEN TANK	USA
PURESTREAM	USA
RED FOX ENVIRONMENTAL	USA
SANITAIRE	USA
SMITH & LOVELESS	USA
SMITH PUMP COMPANY	USA
S&D WORLDWIDE	USA

5.16 API SEPARATORS

* SIEMENS	EUROPE
* BEAUDREY	FRANCE
* DEGREMONT TECHNOLOGIES	INTERNATIONAL
* VEOLIA	INTERNATIONAL
* ARTES-BONO	ITALY
MONARCH SEPARATORS	USA
WESTECH	USA
US FILTER	USA
* VENEAGUA	VENEZUELA

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MANGIAROTTI	ITALY
TRIVENI GROUP	INDIA

5.17 ELECTRO CHLORINATORS

ELECTROCATALYTIC	USA
US FILTER	USA
SEVERN TRENT DENORA	USA/ITALY

5.18 SEAWATER RO UNIT/ELECTRONIZATION

MES- MITSUI ENG. & SHIPBUILDING CO. LTD.	JAPAN
MATRIX	USA
ECODYNE	CANADA
AMBI DESIGN	USA
AQUATECH	USA
BOB JOHNSON ASSOCIATES	USA
GE WATER SYSTEMS	USA
IONICS	USA
US FILTER	USA
WATER & POWER TECHNOLOGIES	USA
SIEMENS	GERMANY

5.19 DRINKING WATER TREATMENT PACKAGE

	MES- MITSUI ENG. & SHIPBUILDING CO. LTD.	JAPAN
	MATRIX	USA
*	SIEMENS	EU
*	VEOLIA	INTERNATIONAL
*	MANDRESSI	ITALY
*	GE-DEGREMONT	ITALY
	BOB JOHNSON ASSOCIATES	USA
	ENGINEERED PROCESS SYSTEMS	USA
	INPAK	USA
	NEPTUNE	USA

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5.20 CARBON FILTER

MES- MITSUI ENG. & SHIPBUILDING CO. LTD.	JAPAN
SOUTHWEST FILTER	USA
TIGG	USA
US FILTERS	USA

5.21 STRAINERS, GENERAL PURPOSE

PROVETECMAR S.A.	COLOMBIA
JAMISON PRODUCTS	USA
ATLANTI K GEPLATEBAU	GERMANY
BOLL & KIRCH	GERMANY
AMF	INTERNATIONAL
DOUGLAS ITALIA	ITALY
LA VALVOMECCANICA	ITALY
PMB ENERGY	ITALY
FUJI	JAPAN
G.I ENGINEERING	JAPAN
MITSUBISHI KAKOKI	JAPAN
NIPPON BENKAN	JAPAN
VAC FILTER	JAPAN
YAC FILTER	JAPAN
VEE BEE	U.K.
BARTON FIRTOP	U.K.
SPIRAX SARCO	U.K./FRANCE
PLENTY	U.K./USA
KEystone	U.K./USA
FACET	USA
PROCESS STRAINERS	USA
RONNINGEN PETTER	USA

5.22 STRAINERS, FEED GAS

PROVETECMAR S.A.	COLOMBIA
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DOUGLAS ITALIA	ITALY
PMB ENERGY	ITALY
MITSUBISHI KAKOKI	JAPAN
NIPPON BENKAN	JAPAN
YAC FILTER	JAPAN
VEE BEE	U.K.
BARTON FIRTOP	U.K.
SPIRAX SARCO	U.K./FRANCE

5.23 PIG RECEIVERS

	RHEMA INTERNATIONAL	COLOMBIA
	PROVETECMAR S.A.	COLOMBIA
	PREMATECHNIK GMBH	GERMANY
	BELLELI	ITALY
	FAI-OFFICINE DI CARVICO S.P.A	ITALY
	PREMABERGO ITALIANA SPA	ITALY
	SIIRTEK NIGI SPA	ITALY
	TECHNOFORGE SPA.	ITALY
*	DELTA ENG.	ITALY
*	FLUIDEL	ITALY
*	FORAIN	ITALY
*	PECO PERRY EUQIP. ITALIANA	ITALY
*	PREMABERGO	ITALY
*	REPCO	ITALY
	TOYODO INTL	JAPAN
	G.D.ENGINEERING	U.K.
	PECO	U.K./USA
	SAGEBRUSH PIPELINE SUPPLY CO.	USA
	T.D. WILLIAMSON INC.	USA
	TAYLOR FORGE ENGINEERING	USA

5.24 SLUG CATCHER – DESIGN FABRICATIONS

PROVETECMAR S.A.	COLOMBIA
FABRICOM	BELGIUM

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EUROPEENE DE CONSTRUCTION METALLIQUE	FRANCE
COPROSIDER S.P.A	ITALY
ROSETTI MARINO SPA	ITALY
HITACHI Zosen	JAPAN
JAPAN STEEL WORKS	JAPAN
HYUNDAI HEAVY	S.KOREA
SEMBAWANG ENGINEERING PTE LTD	SINGAPORE
DURO-FELGUERA PTE LTD	SPAIN
INTERNATIONAL COMBUSTION LTD	U.K.
SCOMARK ENGINEERING (FABRICATION ONLY)	U.K.
TAYLOR FORGE ENGINEERING	USA

5.25 MIXERS, TOP ENTRY

PROVETECMAR S.A.	COLOMBIA
APV	FRANCE
MIXEL	FRANCE
ROBIN INDUSTRIES	FRANCE
EKATO	GERMANY
LIGHTNIN MIXER	INTERNATIONAL
ANTICO OLINDU	ITALY
MITSUBISHI KAKOKI	JAPAN
SATAKE	JAPAN
SHIMAZAKI	JAPAN
PLENY	U.K.
BURHANS-SHARPE	USA
CHEMINEER	USA
PROQUIP	USA
JENSEN	USA
PHILADELPHIA GEAR	USA
BRAWN	USA
SHARPE	USA
STELZERQ	USA

5.26 MIXERS, STATIC IN-LINE

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	PROVETECMAR S.A.	COLOMBIA
	BLACKE DURR	GERMANY
*	HOV	GERMANY
*	KOCH-GLITSCH	GERMANY
*	KORTING	GERMANY
	KOMAX	INTERNATIONAL
*	LEWA	INTERNATIONAL
*	PITTALUGA	ITALY
	KOCH INTERNATIONAL.	ITALY/ USA
	SULZER	SWITZERLAND/GERMANY
	STATIFLOW	U.K.
	CHEMINEER	U.K./ USA
	KOFLO	USA
	AMISTCO	USA

5.27 GLYCOL DEHYDRATION SYSTEM

PROVETECMAR S.A.	COLOMBIA
HEURTEY PETROCHEM ENGINEERING	FRANCE
PROSERMAT	FRANCE
LINDE AG	GERMANY
ALSTOM POWER BOILERS POWER BOILERS SPA	ITALY
KCC PROCESS EQUIPMENTS LTD	U.K.
NATCO LONDON INC	U.K.

5.28 MOLECULAR SIEVES

CECA (ATOFINA "SILIPORITE")	FRANCE
W.R. GRACE	GERMANY
UOP – UNION CARBIDE MOL SIEVE DIV	USA
ZEOCHEM	USA

5.29 REVERSE OSMOSIS UNIT

US FILTER	USA
IONICS	USA

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MECO	USA
WATER POWER TECH	USA
ECODYNE	USA
AQUATECH	USA

5.30 SEISMIC ISOLATORS

EPS	USA
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5.31 MARINE LOADING ARMS

*	EMCO WHEATON	GERMANY
*	FMC CORP	USA/FRANCE
*	NIIGATA ENG	JAPAN
*	SVT	GERMANY
*	WOODFIELD SYSTEMS	U.K.

5.32 SULFUR STORAGE TANK ROOF COIL PACKAGE

PAUL MUELLER COMPANY	USA
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5.33 REFRACTORY LINED EQUIPMENT

△	CONTRACT FABRICATORS INC. (CFI)	USA
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5.34 TRUCK WASHING SYSTEM

△	FUNGIBLES CONDAL	SPAIN
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6 GROUP – SOLIDS PROCESSING EQUIPMENT

6.1 HOISTS AND CRANES

IMOCOM	COLOMBIA
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	HYDRAMARINE	EU
	VICTORY	EU
	KONE CRANE COMPONENTS CORP.	FINLAND/SINGAPORE
	SOMDEL	FRANCE
	VERLINDE	FRANCE
	MC LEVAGE	FRANCE
*	DEMAG (MANNESMAN)	GERMANY
	STAHL (X-P ELECTRIC HOISTS)	GERMANY
	DEMAG	GERMANY
*	STAHL	INTERNATIONAL
	ITALKRANE SRL	ITALY
*	ETS	ITALY
*	FAS	ITALY
*	MELONI	ITALY
*	PRIM	ITALY
	KANTO SANGYO	JAPAN
	OKAZAKI	JAPAN
	SHI NKO	JAPAN
	HYDRALIFT	NORWAY
	HYUNDAI (225 TONS)	S.KOREA
	MHE-DEMAG	SINGAPORE
	ASEA (CRANES & X-P ELECTRIC HOISTS)	SWEDEN
	STOTHERT & PIT	U.K.
	CARRUTHERS (200 TONS)	U.K.
	J.BRANSLEY CRANE	U.K.
	ROLLS-ROYCE INDUSTRIAL POWER GROUP	U.K.
	SMITH AND JOHNSON (100 TONS)	U.K.
	PCT GROUP	UAE
	TECHCRANE/EBI	USA
	GAFFEY	USA
	INGERSOLL RAND (AIR HOISTS)	USA
	OMI CRANE SYSTEMS	USA

6.2 HANDLING EQUIPMENT, GENERAL

PROVETECMAR S.A.

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DEMAG	GERMANY
STAHL	GERMANY
MECHANICAL HANDLING	JAPAN
ASEA	SWEDEN
MORRIS	U.K.
ITALKRANE	U.K.
INGERSOLL RAND	USA

6.3 WEIGH SCALES

△	SCALETRON C/O MACAULAY CONTROLS CO.	USA
---	-------------------------------------	-----

7 GROUP – UTILITY EQUIPMENT

7.1 BOILERS

	MONDERN ENERGY SUPPLY	COLOMBIA
	COKERILL	BELGIUM
	SHANGHAI BOILER WORKS (513W)	CHINA
	COLMAQUINAS	COLOMBIA
	ALSTOM ENERGY SYSTEMS	FRANCE
	BABCOCK ENTERPRISE S.A.	FRANCE
	STEIN FASEL	FRANCE
	DEUTSCHE BABCOCK	GERMANY
*	DEMAG	GERMANY
	THERMAX BABCOCK & WILCOX LIMITED	INDIA
	ABB/COMBUSTION ENG	INTERNATIONAL
	FOSTER WHEELER	INTERNATIONAL
*	KTI	INTERNATIONAL
	GALLERI	ITALY
	MACCHI	ITALY
	BABCOCK HITACHI	JAPAN
	ISHIKAWA HARIMA	JAPAN
	mitsubishi HEAY INDIA.	JAPAN
*	JOHN ZINK	LUXEMBOURG

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	CERREY	MEXICO
	HYUNDAI CORPORATION	S.KOREA
	TEKFEN	TURKEY
	COMBUSTION/N EL	U.K.
*	HAMWORTHY COMBUSTION	U.K.
	ABCO	USA
*	CALLIDUS	USA
	BABCOCK AND WILCOX	USA/CANADA/MEXICO
	DELTAK LLC	USA
	MANGIAROTTI	ITALY

7.2 DEAEERATORS

	PROVETECMAR S.A.	COLOMBIA
	HAMON SOBELCO	BELGIUM
	ECODYNE LTD	CANADA
	AQUAFRANCE	FRANCE
	BABCOCK WANSON	FRANCE
	GUIGAS	FRANCE
	THERMAX BABCOCK & WILCOX LTD	INDIA
*	STORK THERMEQ	INTERNATIONAL
*	ARTES	ITALY
*	SCAM	ITALY
*	TERMOMECCANICA	ITALY
*	BOC EDWARDS	ITALY
	KURITA	JAPAN
	SEO-KOATSU	JAPAN
	HICK HARGREAVES	U.K.
	NEI	U.K.
	CRANE/KOCHRAHE	USA
	H-O-H SYSTEMS, INC.	USA
	KANSAS CITY HEATER	USA
	LA WATER	USA
	STERLING DEAEERATOR	USA
	GRAVER WATER	USA/SINGAPORE

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7.3 WASTE HEAT BOILER

	PROVETECMAR S.A.	COLOMBIA
	CHROMALOX PRECISION HEAT AND CONTROLS	INTERNATIONAL
*	BORSIG INDIA.	GERMANY
*	FBM-KNM	INTERNATIONAL
	SIIRTECH NIGI	ITALY
*	OLMI	ITALY
*	MACCHI	ITALY
	FOSTER MEXICAN SA DE CV	MEX
	DAEKYUNG MACHINERY	S.KOREA
	HYUNDAI HEAVY INDUSTRIES CO.	S.KOREA
	TECH NOTHERM	USA
	HEAT RECOVERY CORPORATION	USA
	DELTAK LLC	USA
	MANGIAROTTI	ITALY

8 GROUP – STRUCTURAL

8.1 GANGWAY

	PROVETECMAR S.A.	COLOMBIA
	FMC EUROPE SA	FRANCE
	KAJIMA MECHATRO ENGINEERING CO LTD	JAPAN
△	SAFERACK LLC	USA
△	CARBIS INC.	USA

8.2 STEEL STRUCTURES

	PROVETECMAR S.A.	COLOMBIA
	YOUNG HWA ENGINEERING	KOREA
	ESMETAL	PERU
△	THE ARTHUR LOUIS STEEL CO.	USA
	SCHUFF STEEL CO.	USA

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SOUTHLAND STEEL	USA
CENTRAL TEXAS IRON WORKS (CTW)	USA
CENTRAL TEXAS IRON WORKS	USA
NORTH SHORE SUPPLY	USA
ESTRUMETAL	SPAIN
PREACERO	MEXICO
WILLIAM HARE	UK
MEDABIL SISTEMAS CONSTRUCTIVOS S.A.	BRAZIL
ACINOX S.A.	COLOMBIA
COMPANIA GENERAL DE ACEROS S.A.	COLOMBIA
SAC ESTRUCTURAS METALICAS	COLOMBIA
ACERIAS	COLOMBIA
MODERN ENERGY	COLOMBIA
METALORIENTE	COLOMBIA
ALFREDO STECKERL	COLOMBIA
ESTAHL	COLOMBIA
INDUSTRIAS DEL HIERRO	COLOMBIA
TECNICA/METALMECANCIA DEL CARBIE (TMC)	COLOMBIA
ACERAL	COLOMBIA
ELECTROFORJADOS NACIONALES S.A.DE C.V.	COLOMBIA
ASER	COLOMBIA
SHANGHAI GRAND TOWER STEEL STRUCTURAL	CHINA
USSL	CHINA
PAX	USA
NORTHSHORE SUPPLY	USA
UNITED STEEL STRUCTURES LIMITED	CHINA
ICEC	BRASIL
USIMINAS	BRASIL
EDYCE	CHILE
ESTRUCTURAS METALICAS LTDA.	CHILE
CHINA/EMOTO	CHINA
COMECA LTDA.	COLOMBIA
CONDISTRAL	COLOMBIA
TAESMET LTDA.	COLOMBIA
C.M.I. LTDA.	COLOMBIA
INHIERRO S.A.	COLOMBIA

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	METALORIENTE	COLOMBIA
*	DSD FERROMETALCO	EGYPT
*	MONTAGEWERK LEIPZIG	GERMANY
*	SCHAVEMBERG	GERMANY
	HEAVENS STEEL	HONG KONG
*	ANORS	ITALY
	BELLELI	ITALY
	F.FOCHI	ITALY
*	OMA	ITALY
	SIRZ STA	ITALY
	NIPPON KOKAN	JAPAN
	TOYO KANETSU K.K.	JAPAN/INDONESIA
*	AIC (ARABIAN INTERNATIONAL COMPANY)	KSA
*	ZAMIL STEEL INDUSTRIES	KSA
	KAIPEN ENG	MALAYSIA
	NAM FAT BHD	MALAYSIA
	FIMA	PERU
	HAUG-PERU	PERU
	AG & P	PHILIPPINES
	HALLA	S.KOREA
	HANJUNG	S.KOREA
	HANMAEK INDIA	S.KOREA
	HYUNDAI HEAVYIND.	S.KOREA
	SUM SUNG HEAVY ND	S.KOREA
	YUNWA	S.KOREA
	DORBYL STRUCTL EN&G	SOUTH AFRICA
	GENREC (PTY) LTD	SOUTH AFRICA
	EMESA	SPAIN
*	SCHWARTZS / HAUTMONT	SPAIN
	SLOT NANKAI	THAILAND
	THAI HERRICK	THAILAND
	SEVERFIELD	U.K.
*	WILLIAM HARE	U.K.
	CLEVELAND BRIDGE & ENGINEERING	UAE
	MIDDLE EAST	UAE
*	TSE (TIGER STEEL ENG.)	UAE

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SCHUFF/MARAUDER	USA
ORIZON	USA
PKM	USA
CTIW	USA/THAILAND
GRUPO PELLIZZARI	VENEZUELA
MONTACA	VENEZUELA
INDUSTRIAS VAN DAM	VENEZUELA
CONSTRUCTORA HNOS FURNALETO-CONFURCA	VENEZUELA

8.3 ALUMINIUM PLATE AND STRUCTURAL SUPPLIER

PROVETECMAR S.A.	COLOMBIA
PIERCE	USA
ALCOA	USA
ALCAN	USA
METAL SALES/CEM	USA
KAISER (EXTRUSIONS)	USA
COMMONWEALTH	USA/Greece

9 GROUP – FIRE & SAFETY

9.1 UV/IR FIRE DETECTORS (FLAME)

*	PROVETECMAR S.A.	COLOMBIA
	SOCRATE	ITALY
	GENERAL MONITORS (MIR)	USA
	DET-TRONICS	USA
	FIREYE	USA
	GENERAL MONITORS	USA

9.2 FIRE DETECTORS (HEAT/RATE OF RISE/RATE COMPENSATED)

KIDDE (FENWAL)	U.K.
DET-TRONICS	USA

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HONEYWELL USA
GENERAL MONITORS USA

9.3 FIRE DETECTORS (SMOKE)

PROVETECMAR S.A. COLOMBIA
DUPONT DE COLOMBIA S.A. COLOMBIA
TYCO INTERNATIONAL
CERBERUS FRANCE
HOCHIKI JAPAN
KIDDE (FENWAL) U.K.
GENERAL MONITORS USA

9.4 COMBUSTIBLE GAS DETECTORS

SIEGER FRANCE
GENERAL MONITORS U.K.
DET-TRONICS USA
MSA USA

9.5 TOXIC GAS DETECTORS (H2S)

SIEGER FRANCE
DET-TRONICS U.K.
GENERAL MONITORS USA
MSA USA

9.6 MANUAL CALL PONT

DUPONT DE COLOMBIA S.A. COLOMBIA
CERBERUS FRANCE
GENERAL MONITORS USA

9.7 WATER SYSTEMS

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DUPONT DE COLOMBIA S.A.	COLOMBIA
AKRON BRASS	USA
ELKHART BRASS	USA
WILLIAMS FIRE & HAZARD	USA
STANG MANUFACTURING	USA

9.8 SPRAY/SPRINKLER VALVES IN SPRAY SYSTEM

PROVETECMAR S.A.	COLOMBIA
DUPONT DE COLOMBIA S.A.	COLOMBIA
VIKING CORP	USA
ANVIL	USA
AUTOMATIC SPRINKLER	USA
OCV	USA
CLA-VAL	USA
BERMAD	USA
BETE SPRAY NOZZLES	USA

9.9 FIRE EXTINGUISHERS, WHEELED & PORTABLE

PROVETECMAR S.A.	COLOMBIA
DUPONT DE COLOMBIA S.A.	COLOMBIA
ANSUL	USA
AMEREX	USA
BADGER	USA

9.10 FOAM HOSE REELS, WATER HOSE REELS, FIRE FIGHTING EQUIP, HYDRANTS (FABRICATED)

PROVETECMAR S.A.	COLOMBIA
DUPONT DE COLOMBIA S.A.	COLOMBIA
ANGUS FIRE	U.K.
KNOWSLEY	U.K.
WILLIAMS FIRE & HAZARD	USA
DOOLEY TACKABERRY	USA

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SUMMIT SUPPLY	USA
WILLIAMS FIRE EQUIPMENT	USA
HILLER	USA

9.11 POST INDICATOR VALVES

PROVETECMAR S.A.	COLOMBIA
DUPONT DE COLOMBIA S.A.	COLOMBIA
PRATT	USA
KENNEDY	USA
AMERICAN DARLING	USA
KEYSTONE	USA

9.12 NFPA 20, FIRE PUMPS (UL LISTED/FM APPROVE)

DUPONT DE COLOMBIA S.A.	COLOMBIA
ITT GOULDS PUMPS INC	USA
SPP PUMPS	USA
EBARA PUMPS	USA
AURORA PUMPS	USA
PEERLESS PUMP	USA
FISHER INDUSTRIES	USA
WORTHINGTON	USA
PATTERSON	USA
ITT	USA
DOOLEY TACKABERRY	USA
AURORA PUMPS	USA

9.13 HIGH EXPANSION FOAM SYSTEM

DUPONT DE COLOMBIA S.A.	COLOMBIA
SIDES	FRANCE
SVENSKA SKUM	SWEDEN
ANSUL	USA
ALISON CONTROLS (CHUBB NATIONAL FOAM)	USA
KIDDE	USA

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ANGUS

USA

9.14 DRY CHEMICALS FIXED SYSTEMS

DUPONT DE COLOMBIA S.A.

COLOMBIA

ANSUL

USA

AMEREX

USA

9.15 CLEAN AGENT OR CO2 EXTINGUISHING SYSTEM FOR BUILDINGS, GAS TURBINES, COMPRESSORS

PROVETECMAR S.A.

COLOMBIA

DUPONT DE COLOMBIA S.A.

COLOMBIA

ANSUL

USA

KIDDE-FENWAL

USA

CHEMETRON

USA

9.16 SAFETY SHOWERS & EYE WASH

DUPONT DE COLOMBIA S.A.

COLOMBIA

DISTRIBUTION INTERNATIONAL SOUTHWEST

USA

DOOLEY TACKABERRY

HAWS

USA

ENCON

USA

SPEAKMAN

USA

9.17 AMBULANCES

DUPONT DE COLOMBIA S.A.

COLOMBIA

MEDICMASTER

USA

MILLER COACH

USA

9.18 FOAM TRUCKS

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DUPONT DE COLOMBIA S.A.	COLOMBIA
ROSENBEAUR	AUSTRIA
SIDES	FRANCE
CHUBB NATIONAL FOAM	USA
EMERGENCY ONE	USA

9.19 FIREFIGHTING EQUIPMENT

	PROVETECMAR S.A.	COLOMBIA
	DUPONT DE COLOMBIA S.A.	COLOMBIA
*	KIDDE / SILVANI	INTERNATIONAL
*	TYCO	INTERNATIONAL
*	FAS	ITALY
*	FIERRE	ITALY
*	AIR FIRE	ITALY
*	KNOWSLEY	U.K.

9.20 BREATHING AIR SYSTEM

DOOLEY TACKABERRY	USA
HAGEMeyer NORTH AMERICA	USA
TOTAL SAFETY	USA

10 GROUP – CHEMICAL, CATALYST AND COATINGS

10.1 CHEMICALS AND CATALYST

JOHNSON MATTHEY	INTERNATIONAL
BRENNTAG	COLOMBIA
CHRISTY CATALYTICS, LLC	USA
FABRICA CARIOCA DE CATALISADORES	BRAZIL
CECA SA	FRANCE
PROCATALYSE	FRANCE
BHS-BAYERISCHEBERG-HUTTEN-UND SALZWERKE	GERMANY

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	HALDOR TOPSO INTERNATIONAL A/S	JAPAN
	IFP PROCATALYSEJOKYO OFFICE C/O	JAPAN
	IWAO JIKI KOGYO	JAPAN
	NALCO	JAPAN
	NIHON SIBER HEGNER	JAPAN
	NIKKI SHOJI	JAPAN
	SAINT-GOBAIN NORTON	JAPAN
	TAKEDA CHEMICAL ND. CO. LTD	JAPAN
	TIPTON CORPORATION	JAPAN
	UNION SHOWA K.K.	JAPAN
	NORIT SINGAPORE PTE.LTD	SINGAPORE
	CRITERION CATALYST	U.K.
	W.R. GRACE LTD.	U.K.
	ALBEMARLE	USA
	BASF	USA
	CALGON CARBON CORPORATION	USA
	NORTON COMPANY	USA
	ZEOCHEM	USA
△	CLARIANT CORPORATON	USA

10.2 PAINT AND COATING

COMPANIA GLOBAL DE PINTURAS	COLOMBIA
DUPONT DE COLOMBIA S.A.	COLOMBIA
BRENNTAG	COLOMBIA
CHRISTY CATALYTICS, LLC	USA
PINTUCO	COLOMBIA
ICO	COLOMBIA
PPG	USA
SIGMA COATINGS	USA
SHERWIN WILLIAMS	USA
INTERNATIONAL PAINT	USA
CARBOLINE	USA
HEMPEL	USA

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10.3 CATALYST AND ADDITIVES ADDITION SYSTEMS

CHRISTY CATALYTICS, LLC	USA
INTERCAT	USA
SOLIDS AIR	USA
CONSOLIDATE	USA

10.4 FIBERGLASS/ INSULATION

DISTRIBUTION INTERNATIONAL SOUTHWEST	USA
SUPERIOR PLUS CONSTRUCTION PRODUCTS	CANADA
ASITERMI S.A.	COLOMBIA
FIBERGLASS COLOMBIA S.A.	COLOMBIA
CHRISTY CATALYTICS, LLC	USA

11 REACTOR INTERNALS

11.1 FEED NOZZLES

PROVETECMAR S.A.	COLOMBIA
DELTA CONTROLS	USA
SIVCO INC.	USA

12 SOLIDS SEPARATORS

12.1 CYCLONES

PROVETECMAR S.A.	COLOMBIA
IMPOLAMA INDUSTRIAL SUPPLY	USA
IMPORTACIONES INDUSTRIALES LAMA S.A.	COLOMBIA
TAPCOENPRO	USA
FLSMIDTH KREBS	12.1
VAN TONGEREN	UK
EMTROL	USA

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DUCON	USA
BUELL	USA

13 FCCU SLIDE VALVES

	REMOSA	ITALY
	TAPCO	USA
	ZIMMERMAN	USA
*	FLOWSERVE	USA
*	NELES JAMESBURY	INTERNATIONAL
*	VELAN	USA/CANADA

14 DELAYED COKER VALVES

Z & J TECHNOLOGIES	GERMANY
PACIFIC WEDGE PLUG	USA
NELES JAMESBURY	INTERNATIONAL
VELAN	USA/CANADA
VALVTECHNOLOGIES	USA

15 GROUP – ELECTRICAL

15.1 MOTOR CONTROL CENTERS

V R INGENIERIA	COLOMBIA
ABB	INTERNATIONAL
SIEMENS	INTERNATIONAL
CUTLER-HAMMER	USA
GENERAL ELECTRIC	USA
POWELL INDUSTRIES	USA
ROCKWELL (ALLEN BRADLEY)	USA
WESTINGHOUSE	USA

15.2 POWER CONTROL CENTERS / SUBSTATIONS

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LECTRUS	USA
M & M COASTAL MANUFACTURING INC.	USA
VOLTA	USA
ABB	INTERNATIONAL
SIEMENS	INTERNATIONAL
AREVA	USA
ELECTRICAL POWER SYSTEMS	USA
GENERAL ELECTRIC	USA
POWELL INDUSTRIES	USA
ROCKWELL (ALLEN BRADLEY)	USA
TESLA	USA

15.3 CONTROL TRANSFORMERS

	APPLETON	USA
	PRYSMIAN	ITALY
	INDUSTRIAS ERGON	COLOMBIA
*	ABB	INTERNATIONAL
*	AREVA	INTERNATIONAL
*	SIEMENS	INTERNATIONAL
*	PAUWELS	INTERNATIONAL
*	BRUSH	INTERNATIONAL
*	HYUNDAI	INTERNATIONAL
*	EMIRATE TRANSFORMER	UAE
	ELECTRONICAS LASER	USA
	ELECTROCONTROL	USA

15.4 METER AND PROTECTION TRANSFORMERS

ABB	INTERNATIONAL
GE	USA
WESTINGHOUSE	USA
SIEMENS	USA

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15.5 OIL, DISTRIBUTION TRANSFORMERS

ABB	INTERNATIONAL
SIEMENS	USA

15.6 DRY & RESIN, DISTRIBUTION TRANSFORMERS

AUGE INDUSTRIAL FASTENERS	USA
EGS ELECTRICAL GROUP	USA
APPLETON	USA
SIERRA	USA
ABB	USA
ADVANCE	USA
SUNTEC	USA / EUROPE

15.7 POWER TRANSFORMERS

AUGE INDUSTRIAL FASTENERS	USA
SIEMENS	INTERNATIONAL
ABB/TPL	INTERNATIONAL
SCHNEIDER	INTERNATIONAL
ALSTOM	INTERNATIONAL
DAIHEN	JAPAN
FUJI	JAPAN
MITSUBISHI ELECTRIC	JAPAN
TOSHIBA	INTERNATIONAL
BRUSH GROUP	UK
PARSON PEEBLES	UK
COOPER POWER INDUSTRIES	USA
NIAGARA TRANSFORMERS	USA
VIRGINIA TRANSFORMERS	USA

15.8 SWITCHGEAR AND 6.3 KV CIRCUIT BREAKERS

PROVETECMAR S.A.	COLOMBIA
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	LARSEN AND TOUBRO	INDIA
	ALSTOM	INTERNATIONAL
	ABB	INTERNATIONAL
*	EATON (CUTLER HAMMER)	INTERNATIONAL
*	SCHNEIDER	INTERNATIONAL
*	AREVA	INTERNATIONAL
*	IMESA	ITALY
*	TOZZI SUD	ITALY
	GENERAL ELECTRIC	USA
*	POWELL INDUSTRIES	USA
*	SIEMENS	USA

15.9 600V CIRCUIT BREAKERS (MOLDED CASE)

PROVETECMAR S.A.	COLOMBIA
MERLIN-GERIN	GERMANY
ABB	INTERNATIONAL
GENERAL ELECTRIC	USA
WESTINGHOUSE	USA
SIEMENS	USA
SQUARE D	USA

15.10 CONTACTORS

PROVETECMAR S.A.	COLOMBIA
GENERAL ELECTRIC	USA
WESTINGHOUSE	USA
SIEMENS	USA
ROCKWELL (ALLEN BRADLEY)	USA
PHOENIX CONTACT	INTERNATIONAL

15.11 LOW VOLTAGE PROTECTION RELAYS

PROVETECMAR S.A.	COLOMBIA
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SIEMENS	INTERNATIONAL
GENERAL ELECTRIC (MULTILIN)	USA
SCHWEITZER ENGINEERING LABORATORIES, INC.	USA
ROCKWELL (E3)	USA
AREVA (GEMSART)	USA
PHOENIX CONTACT	INTERNATIONAL

15.12 MEDIUM VOLTAGE PROTECTION RELAYS

PROVETECMAR S.A.	COLOMBIA
SCHWEITZER ENGINEERING LABORATORIES, INC.	USA
ABB	USA
GENERAL ELECTRIC (MULTILIN)	USA
SIEMENS	GERMANY

15.13 POWER AND CONTROL CABLES (STD: UL-1072 / NEMA WC-7)

TELDOR CABLES & SYSTEMS	USA
VOLTA	USA
NEXANS	INTERNATIONAL
CENTEISA	COLOMBIA
PROCABLES	COLOMBIA
CABLEXPORT (PIRELLI-CEAT-FINCAVI)	COLOMBIA
TELECOCABI (CODELCA-PALAZZO)	ESP
OKONITE	USA
BELDEN	USA
KERPEN	GERMANY

15.14 ELECTRICAL CONDUITS AND TERMINAL BOXES FOR NON-CLASSIFIED AREAS

COLMENA	COLOMBIA
CORPACERO	COLOMBIA
ILURAM	COLOMBIA
SIMESA	COLOMBIA

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TECNA	COLOMBIA
APPLETON	USA
CROUSE HINDS	USA
KILLARK	USA
OZ-GEDNEY	USA

15.15 ELECTRICAL BOXES FOR CLASSIFIED AREAS

TECNA	COLOMBIA
CROUSE HINDS	USA / COLOMBIA
KILLARK	USA
APPLETON	USA
RITTAL	GERMANY

15.16 GALVANIZED CONDUIT TUBING DIAMETER ½" TO 4"

COLMENA	COLOMBIA
SIMESA	COLOMBIA

15.17 GALVANIZED CONDUIT TUBING DIAMETER 2" TO 6"

COLMENA	COLOMBIA
FER TUBI	ITALY
USA SUPPLIERS	USA

15.18 CABLE TRAYS

MP HUSKY	USA
TYCO-COPE	USA
COOPER B-LINE	USA
CHANNEL TRACK IND. INC	USA
ENDURO	USA
INDUSTRIAS CENO S.A.	COLOMBIA

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	TECNA	COLOMBIA
	CHANNEL TRACK	USA
*	PUK	GERMANY
*	COOPER B-LINE	INTERNATIONAL
	SITIE	INTERNATIONAL
	CAGNONI E ZAMBELLI	ITALY
*	CARPANETO	ITALY
*	FEMICZ	ITALY
	CELCO	INTERNATIONAL
	CENO INDUSTRIAS S.A.	COLOMBIA
	KM INDUSTRIAL	USA
*	MP HUSKY	USA
	TYCO COPE	USA

15.19 ELECTRICAL BOARDS FOR NON-PROCESS APPLICATIONS

AEG	INTRNATIONAL
HANSEATICA CIA LTDA	COLOMBIA
ELECTROCELDAS LTDA	COLOMBIA
SCHNEIDER ELECTRIC	USA
FEDAT LTDA	SPAIN
LUMINEX PRODUCTS, LLC	USA
RITTAL	INTERNATIONAL

15.20 FLEXIBLE CONDUIT TUBING

TECNA	COLOMBIA
ANGELONI ELECTRIC	ITALY

15.21 FLEXIBLE CONDUIT STEEL MESH

TECNA	COLOMBIA
COOPER CROUSE HINDS	USA
APPLETON	USA

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15.22 FLEXIBLE CONDUIT LIQUID TIGHT

TECNA	COLOMBIA
COOPER CROUSE HINDS	USA
OZ-GEDNEY	USA
APPLETON	USA

15.23 LOCAL CONTROL SWITCHES

TECNA	COLOMBIA
COOPER CROUSE-HINDS/CEAG	INTERNATIONAL
CORTEM GROUP	ITALY
A.D. VIGANO ELECTRICAL	ITALY
COOPER CROUSE HINDS	USA
APPLETON	USA
ROCKWELL (ALLEN- BRADLEY)	USA

15.24 LIGHTING PANELS

LUMEN	USA
TECNA	COLOMBIA
ALSTOM	FRANCE
SCHNEIDER ELECTRIC	USA
COOPER CROUSE-HINDS/CEAG	INTERNATIONAL
CORTEM GROUP	ITALY
GE	USA
WESTINGHOUSE	USA
COOPER CROUSE HINDS	USA
APPLETON	USA

15.25 LIGHTING FIXTURES FOR CLASSIFIED AREAS (STD: UL-886 / ANSI C-33.27 / CSA-C22.2 / NEMA 3.4)

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	LUMEN	USA
	TECNA	COLOMBIA
*	R. STAHL	INTERNATIONAL
*	COOPER CROUSE HINDS/CEAG	INTERNATIONAL
*	EGS APPLETON/ATX	INTERNATIONAL
*	CORTEM GROUP	ITALY
	COOPER CROUSE-HINDS	USA
	LUX CANDEL	COLOMBIA
	COOPER CROUSE-HINDS/CEAG	USA
	APPLETON	USA
	OZ-GEDNEY	USA
	HUBBELL KILLARK	USA

**15.26 LIGHTING FIXTURES FOR UN-CLASSIFIED AREAS
(STD: UL-514B / FED-
SPEC W-C-5860 / CSA-C22.2 / ANSI C-33.84)**

PROVETECMAR S.A.	COLOMBIA
LUMEN	USA
TECNA	COLOMBIA
ILURAM	COLOMBIA
ABB	INTERNATIONAL
CORTEM GROUP	ITALY
ROY ALPHA	COLOMBIA
SCHREDER	USA
HUBBELL KILLARK	USA
APPLETON	USA
COOPER CROUSE HINDS	USA

15.27 EXPLOSION PROOF OUTLETS (120V)

TECNA	COLOMBIA
COOPER CROUSE HINDS	USA
APPLETON	USA

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15.28 WELDING OUTLETS (600V, SAFETY SWITCH)

PROVETECMAR S.A.	COLOMBIA
TECNA	COLOMBIA
COOPER CROUSE HINDS	USA
APPLETON	USA
HUBBELL KILLARK	USA

15.29 ELECTRICAL TERMINALS

PROVETECMAR S.A.	COLOMBIA
3M	USA
IDEAL	USA
BURNDY	USA
PHOENIX CONTACT	INTERNATIONAL

15.30 INDUSTRIAL BATTERIES (POSITIVE PLATE TUBULAR TYPE)

RHEMA INTERNATIONAL	COLOMBIA
PROVETECMAR S.A.	COLOMBIA
EXIDE	USA
GOULD	USA
VARTA	USA

15.31 INVERTERS

RHEMA INTERNATIONAL	COLOMBIA
PROVETECMAR S.A.	COLOMBIA
EXIDE	USA
EMERSON	USA

15.32 125 VDC UN-INTERRUPTIBLE POWER SYSTEMS (UPS)

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RHEMA INTERNATIONAL	COLOMBIA
PROVETECMAR S.A.	COLOMBIA
EXIDE	USA
DELTEC	USA
EATON	USA
AMETEK SOLIDSTATE CONTROLS INC.	USA
EMERSON/ LIEBERT	USA
APC/MGE	USA
CUSTOM POWER LTD.	USA
LAMARCHE	USA
ACTIVE POWER	USA
PHOENIX CONTACT	INTERNATIONAL
GUTOR	INTERNATIONAL

15.33 BATTERY CHARGERS

RHEMA INTERNATIONAL	COLOMBIA
PROVETECMAR S.A.	COLOMBIA
EXIDE	USA
EMERSON	USA
AMETEK SOLIDSTATE CONTROLS INC.	USA
DELTEC	USA
UYG	COLOMBIA
CUSTOM POWER	USA

15.34 DIRECT CURRENT SYSTEM

PROVETECMAR S.A.	COLOMBIA
SIEMENS	INTERNATIONAL
ABB	INTERNATIONAL
EMERSON	USA

15.35 AIR CONDITIONING AND REFRIGERATION SYSTEMS

PROVETECMAR S.A.	COLOMBIA
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COL CLIMA, S.A.	COLOMBIA
INDUSTRIAS DEL PARAMO S.A.	COLOMBIA
YORK	USA
CARRIER	USA
DWD	INTERNATIONAL
SPECIFIC SYSTEMS, LTD.	USA

15.36 AIR CONDITIONING FOR COMPUTERIZED CONTROL ROOMS

PROVETECMAR S.A.	COLOMBIA
EQUIPRAC	COLOMBIA
INDUSTRIAS DEL PARAMO S.A.	COLOMBIA
TERMOANDINA	INTERNATIONAL
DWD	USA
SPECIFIC SYSTEMS LTD.	INTERNATIONAL

15.37 EXPLOSION PROOF WATER COOLERS LOW FLOW

PROVETECMAR S.A.	COLOMBIA
MOSERES, S.A.	COLOMBIA

15.38 EXPLOSION PROOF WATER COOLERS HIGH FLOW

PROVETECMAR S.A.	COLOMBIA
KOCH/GLITSCH	USA/ITALY/FRANCE
FILTRINE	USA
EBCO OASIS	USA

15.39 EXPLOSION PROOF WINDOW AIR CONDITIONERS

PROVETECMAR S.A.	COLOMBIA
MOSERES, S.A.	COLOMBIA
PANASONIC	INTERNATIONAL
TOSHIBA	INTERNATIONAL

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WHIRLPOOL USA
CARRIER USA

15.40 ELECTRONIC GOVERNORS (STD: SEE GROUP STANDARD FOUR-/NUM. 58.4)

WOODWARD GOVERNOR USA
TRI-SEN USA

15.41 EMERGENCY SHOWER AND EYE WASH INSTALLATIONS HAWS CORROSION RESISTANT/EMERGENCY STATION ALL STAINLESS

PROVETECMAR S.A. COLOMBIA
HAWS DRINKING FAUCET COMPANY USA

15.42 EMERGENCY SHOWER AND EYE WASH INSTALLATIONS ELECTRICALLY HELD RELAY

PROVETECMAR S.A. COLOMBIA
ROCKWELL (ALLEN BRADLEY) USA

15.43 EMERGENCY SHOWER AND EYE WASH INSTALLATIONS PUSH BUTTON, VIBRATING SIGNAL BELL, OBSTRUCTING LIGHT

PROVETECMAR S.A. COLOMBIA
COOPER CROUSE HINDS USA

15.44 SUBSTATIONS SUPERVISORY SYSTEM

ABB INTERNATIONAL
ROCKWELL (ALLEN BRADLEY) USA

15.45 VARIABLE FREQUENCY DRIVERS LOW VOLTAGE

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ABB	INTERNATIONAL
SIEMENS	INTERNATIONAL
TOSHIBA	INTERNATIONAL
ROCKWELL	USA
FLENDER	USA
CUTTLE HAMMER	USA

15.46 VARIABLE FREQUENCY DRIVERS MEDIUM VOLTAGE

PROVETECMAR S.A.	COLOMBIA
SIEMENS	INTERNATIONAL
ABB	INTERNATIONAL
TOSHIBA	INTERNATIONAL
ROCKWELL (ALLEN BRADLEY)	USA

15.47 ELECTRONIC METERS FOR ELECTRICAL SYSTEMS

PROVETECMAR S.A.	COLOMBIA
SIEMENS	INTERNATIONAL
GENERAL ELECTRIC	INTERNATIONAL
PHOENIX CONTACT	INTERNATIONAL
JANITZA	GERMANY

15.48 AC/DC UPS (UNINTERRUPTABLE POWER SUPPLIES)

	RHEMA INTERNATIONAL	COLOMBIA
	PROVETECMAR S.A.	COLOMBIA
	POWERWARE	INTERNATIONAL
*	SAFT NIFE	INTERNATIONAL
*	GUTOR	INTERNATIONAL
*	SOLID STATE CONTROL	INTERNATIONAL
*	LIEBERT	INTERNATIONAL
*	CHLORIDE	INTERNATIONAL

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*	BORRI	ITALY
*	CEG	ITALY
	CUSTOM POWER	USA

15.49 HEAT TRACING SYSTEM

	CHROMALOX PRECISION HEAT AND CONTROLS	INTERNATIONAL
	PARKER MULTITUBE	USA
*	TYCO/RAYCHEM	INTERNATIONAL
*	THERMON	INTERNATIONAL
*	THERMOTRACE	INTERNATIONAL
*	TEMAR	ITALY
*	NELSON	USA
△	BROCK SERVICES LLC	USA

15.50 CATHODIC PROTECTION SYSTEM

	TECNA	COLOMBIA
*	HOCKWAY	INTERNATIONAL
*	WILSON WALTON	ITALY
*	CATHODIC PROTECTION	U.K.

16 PIPE

16.1 CARBON STEEL SEAMLESS

	GALPERTI	COLOMBIA
	RHEMA INTERNATIONAL	COLOMBIA
	AUGE INDUSTRIAL FASTENERS	USA
	TMK – IPSCO	INTERNATIONAL
	CHENGDU SEAMLESS STEEL TUBE CO., LTD.	CHINA
	IMPOLAMA INDUSTRIAL SUPPLY	USA
	IMPORTACIONES INDUSTRIALES LAMA S.A.	COLOMBIA
	BUHLMANN ARGENTINA S.A.	ARGENTINA
	SIDERCA (TENARIS)	ARGENTINA

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	ORRCON OPERATIONS	AUSTRALIA
	VOEST ALPINE	AUSTRIA
	ALGOMA (TENARIS)	CANADA
	LAKESIDE STEEL	CANADA
	BOASTEEL (NO. 5 STEEL)	CHINA
	CHOMUTOV	CZECH REPUBLIC
	NOVA HUT (MITTAL)	CZECH REPUBLIC
	VALCOVNY TUB CHOMUTOV	CZECH REPUBLIC
*	PHOCENNE	FRANCE
	VALLOUREC & MANNESMAN	FRANCE/GERMANY/BRAZIL
	BENTELER	GERMANY
	EEW	GERMANY/KOREA
*	TENARIS	INTERNATIONAL
△	JINDAL SAW LIMITED	INDIA
△	MAHARASHTRA SEAMLESS LIMITED	INDIA
*	CTA	ITALY
	DALMINE (TENARIS)	ITALY
*	KURVERS	ITALY
*	PIANA	ITALY
	PIETRA SPA	ITALY
*	SIDECO	ITALY
*	KAWASAKI	JAPAN
	JFE STEEL	JAPAN
	NIPPON STEEL	JAPAN
	NKK-T (TENARIS)	JAPAN
	SUMITOMO METAL	JAPAN
△	ILJIN STEEL	KOREA
	TAMSA (TENARIS)	MEXICO
	HUTA BATORY	POLAND
	NIKOTUBE	UKRAINE
	PETROTUBE	ROMANIA
	SILCOTUBE (TENARIS)	ROMANIA
	TMK SINARA	ROMANIA
	MITTAL STEEL	ROMANIA/SOUTH AFRICA/USA

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	PRODUCTOS TUBULARES	SPAIN
*	TUBACEX	SPAIN
	TUBOS REUNIDOS	SPAIN
	JSC	UKRAINE
	AK STEEL	USA
	IPSCO	USA
	KOPPEL STEEL	USA
	JMC	USA
	US STEEL	USA
	V & M STAR	USA
	VISION METALS	USA

16.2 CARBON STEEL ERW

GALPERTI	COLOMBIA
S & T CORPORATION	KOREA
RHEMA INTERNATIONAL	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
BUHLMANN ARGENTINA S.A.	ARGENTINA
IMPORTACIONES INDUSTRIALES LAMA S.A.	COLOMBIA
TURBOCARIBE	COLOMBIA
ORRCON OPERATIONS	AUSTRALIA
BERGROHR	GERMANY
FUCHS	GERMANY
EEW	GERMANY/KOREA
RAUTARUUKKI	FINLAND
CORINTH PIPEWORKS	GREECE
ILVA (RIVA GROUP)	ITALY
JFE STEEL	JAPAN
NIPPON STEEL	JAPAN
NKK	JAPAN
SUMITOMO	JAPAN
HYLSA	MEXICO
TUBACERO	MEXICO

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HUSTEEL	REPUBLIC OF KOREA
HYUNDAI	REPUBLIC OF KOREA
SEAH STEEL	REPUBLIC OF KOREA
CANADOIL (THAI BENKAN)	THAILAND
CORUS	U.K.
AMERICAN STEEL PIPE	USA
BERG (EUROPIPE)	USA
C.S.I.	USA
CAMPHILL	USA
HICKMAN (TENARIS)	USA
LONESTAR	USA
NEWPORT STEEL	USA
STUPP	USA
TEX TUBE	USA
U.S. STEEL	USA
IPSCO	USA/CANADA

16.3 CARBON STEEL EFW

GALPERTI	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
BUHLMANN ARGENTINA S.A.	ARGENTINA
IMPORTACIONES INDUSTRIALES LAMA S.A.	COLOMBIA
JFE STEEL	JAPAN
HYUNDAI	REPUBLIC OF KOREA
SEAH PIPE	REPUBLIC OF KOREA

16.4 CARBON STEEL DSAW

GALPERTI	COLOMBIA
ACELOR MITTAL	INTERNATIONAL
AUGE INDUSTRIAL FASTENERS	USA
MITTAL STEEL	ROMANIA/SOUTH AFRICA/USA
BUHLMANN ARGENTINA S.A.	ARGENTINA

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IMPORTACIONES INDUSTRIALES LAMA S.A.	COLOMBIA
SIDERCA (TENARIS)	ARGENTINA
CONFAB (TENARIS)	BRASIL
IPSCO	CANADA
EUROPIPE	FRANCE/GERMANY
BERGROHR	GERMANY
EISENBAU KRAMER	GERMANY
EEW	GERMANY
ILVA (RIVA GROUP)	ITALY
JFE STEEL	JAPAN
NIPPON STEEL	JAPAN
NKK	JAPAN
SUMITOMO METAL	JAPAN
HYUNDAI	REPUBLIC OF KOREA
SEAH STEEL	REPUBLIC OF KOREA
CORUS	U.K.
BERG PIPE (EUROPIPE)	USA
IPSCO	USA
MACH MACHINE	USA

16.5 STAINLESS STEEL SEAMLESS

	GALPERTI	COLOMBIA
	RHEMA INTERNATIONAL	COLOMBIA
	PROVETECMAR S.A.	COLOMBIA
	AUGE INDUSTRIAL FASTENERS	USA
	BUHLMANN ARGENTINA S.A.	ARGENTINA
	IMPORTACIONES INDUSTRIALES LAMA S.A.	COLOMBIA
*	BENTELER	GERMANY
*	SCHOELLER-BLECKMANN	GERMANY
	SALZGITTER MANNESMANN STAINLESS TUBES	INTERNATIONAL
	SANDVIK	INTERNATIONAL
*	PIANA	ITALY
*	RACCORTUBI	ITALY
	JFE STEEL	JAPAN

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*	KAWASAKI	JAPAN
	NIPPON STEEL	JAPAN
	KOBE	JAPAN
	NKK-T (TENARIS)	JAPAN
	SANYO SPECIAL STEEL	JAPAN
	SS KUZE CO	JAPAN
	SUMITOMO	JAPAN
	CHANGWON STEEL	REPUBLIC OF KOREA
	TUBACEX	SPAIN
	PRODUCTOS TUBULARES	SPAIN
	NASTOA	THAILAND
	OUTOKUMPU	U.K.
	CARPENTER	USA
	INCO	USA
*	INTERNATIONAL EXTRUDED PRODUCTS	USA
	KAISER ELECTRO PRECISION	USA
	PEXCO	USA
	WYMAN GORDON	USA

16.6 STAINLESS STEEL ERW

GALPERTI	COLOMBIA
RHEMA INTERNATIONAL	COLOMBIA
PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
BUHLMANN ARGENTINA S.A.	ARGENTINA
IMPOLAMA INDUSTRIAL SUPPLY	USA
IMPORTACIONES INDUSTRIALES LAMA S.A.	COLOMBIA
UGINE & ALZ	BELGIUM
BSL T.R.	FRANCE
BSL INDUSTRIES	FRANCE/ITALY
ALTHAMMER	GERMANY
BUTTING	GERMANY
SOSTA	GERMANY

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*	EEW	GERMANY/KOREA
	RACCORTUBI	ITALY
	RIVIT	ITALY
	GIEMINOX	ITALY
	MARCEGAGLIA	ITALY/USA
	DAIICHI STAINLESS KOKAN	JAPAN
	SANYO SPECIAL STEEL	JAPAN
	OUTOKUMPU	INTERNATIONAL
	HYUNDAI	REPUBLIC OF KOREA
	L.S. INDUSTRIAL	REPUBLIC OF KOREA
	LG	REPUBLIC OF KOREA
	SEAH PIPE	REPUBLIC OF KOREA
	INOXTECH	REP. OF KOREA/ITALY
	SANDVIK	SWEDEN
	JAUNG YUANN ENTERPRISE	TAIWAN
	TA CHEN	TAIWAN
	YEUN CHYANG INDUSTRIAL	TAIWAN
	FROCH	TAIWAN/CHINA
	BRISTOL METALS	USA
	FELKER BROS.	USA
	MACH MACHINE	USA
	SWEPCO	USA

16.7 ALLOY SEAMLESS

GALPERTI	COLOMBIA
RHEMA INTERNATIONAL	COLOMBIA
PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
MICHIGAN SEAMLESS TUBE	USA
BUHLMANN ARGENTINA S.A.	ARGENTINA
SIDERCA (TENARIS)	ARGENTINA
V & M	FRANCE/GERMANY
BENTELER	GERMANY
BUTTING	GERMANY

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DALMINE (TENARIS)	ITALY
GIEMINOX	ITALY
RIVIT	ITALY
JFE STEEL	JAPAN
NIPPON STEEL	JAPAN
NKK TUBE (TENARIS)	JAPAN
SUMITOMO	JAPAN
TAMSA (TENARIS)	MEXICO
PRODUCTOS TUBULARES	SPAIN
TUBOS REUNIDOS	SPAIN
SPECIAL METALS	USA
WYMAN GORDON	USA

16.8 ALLOY WELDED

	GALPERTI	COLOMBIA
	RHEMA INTERNATIONAL	COLOMBIA
	PROVETECMAR S.A.	COLOMBIA
	AUGE INDUSTRIAL FASTENERS	USA
	BUHLMANN ARGENTINA S.A.	ARGENTINA
	SIDERCA (TENARIS)	ARGENTINA
*	PHOCENNE	FRANCE
	V & M	FRANCE/GERMANY
*	EEC	GERMANY
*	EISENBAU KRAMER	GERMANY
	BENTELER	GERMANY
	BUTTING	GERMANY
	EBK	GERMANY
	EEW	GERMANY
*	CTA	ITALY
*	KURVERS	ITALY
*	SIDECO	ITALY
	DALMINE (TENARIS)	ITALY
	JFE STEEL	JAPAN
	NIPPON STEEL	JAPAN

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*	SUMITOMO	JAPAN
	NKK	JAPAN
	OTK	JAPAN
*	NPC	KSA
	TAMSA (TENARIS)+	MEXICO
	TUBOS REUNIDOS	SPAIN
	SANDVIK	SWEDEN
*	UMRAN STEEL PIPE	TUR
*	CORUS	U.K.
*	AMERICAN PIPE STEEL	USA
*	CALIFORNIA STEEL	USA
	HAYNES INTERNATIONAL	USA
*	LONE STAR	USA
*	LTV	USA
*	TEX TUBE	USA
*	USX	USA
	MACH MACHINE	USA
*	BERG/ROHR	USA/GERMANY
*	CONFAB	BRAZIL

16.9 ALLOY DSAW

GALPERTI	COLOMBIA
PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
BUHLMANN ARGENTINA S.A.	ARGENTINA
EBK	GERMANY
EEW	GERMANY/KOREA
JFE STEEL	JAPAN
OTK	JAPAN
SUMITOMO	JAPAN
BERG PIPE (EUROPIPE)	USA
SWEPCO	USA

16.10 REINFORCED CONCRETE PIPE

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AUGE INDUSTRIAL FASTENERS	USA
BUHLMANN ARGENTINA S.A.	ARGENTINA
SOCIETE DES TAYAUX BONNA	FRANCE
NIPPON HLTME PIPE LTD	JAPAN
AMERON CONCRETE & STEEL PIPE	USA
PRICE BROTHERS	USA
AMERICAN PIPE & CONTRUCTION – AMERON	USA
MANUFACTURAS DEL CEMENTO S.A.(TITAN)	COLOMIBA

16.11 RTRP PIPE

AUGE INDUSTRIAL FASTENERS	USA
BUHLMANN ARGENTINA S.A.	ARGENTINA
REINFORCED PLASTIC SYSTEM	CANADA
DEUTSCHE FIBERCAST	GERMANY
AMERON	INTERNATIONAL
BETTLE	USA
CENTRON (API)	USA
CONLEY	USA
ERSHIG	USA
FABRICATED PLASTIC	USA
FIBERBOND	USA
FUTURE PLASTICS	USA
INDUSTRIAL PIPE & PLASTIC	USA
SMITH FIBRECAST	USA
STAR (API)	USA
TUBULAR FIBREGLASS (API)	USA

16.12 HDPE PIPE

AUGE INDUSTRIAL FASTENERS	USA
BUHLMANN ARGENTINA S.A.	ARGENTINA
AGRU	AUSTRIA
KWH	CANADA

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COSMOPLAST	UAE
HEPWORTH	UAE
GLYNWED	U.K.
CRS POLYPIP	USA
ISCO	USA
PERFORMANCE PIPE	USA

16.13 FLANGES FIGURE & DRIP RINGS

	PROVETECMAR S.A.	COLOMBIA
	AUGE INDUSTRIAL FASTENERS	USA
	BUHLMANN ARGENTINA S.A.	ARGENTINA
	GALPERTI	ITALY
*	PHOCEENNE / GENOYER GROUP	FRANCE
*	LINVIK	U.K.

16.14 INTERLOCK SYSTEM

PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
BUHLMANN ARGENTINA S.A.	ARGENTINA

17 GROUP – FITTINGS

17.1 CARBON STEEL

GALPERTI	COLOMBIA
RHEMA INTERNATIONAL	COLOMBIA
PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
BUHLMANN ARGENTINA S.A.	ARGENTINA
ERNE	AUSTRIA/GERMANY
CANADOIL	CANADA
INTERFIT	FRANCE
BUSCH & KUNZ	GERMANY

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WILHELM GELDBACH	GERMANY
BASSI LUIGI	ITALY
CONSULTEX	ITALY
COPROSIDER	ITALY
LAME	ITALY
OMR / GAM RACCORDI	ITALY
PETROL RACCORDI	ITALY
RACCORDI FORGIATI	ITALY
TECHNDBEND (ELBOWS)	ITALY
TECNOFORGE	ITALY
TECTUBI RACCORDI	ITALY
BENKAN (BENEX CORPORATION)	JAPAN
ASK	JAPAN / THAILAND
RIGA (TENARIS)	MEXICO
SUNGKWANG BEND CO.	REPUBLIC OF KOREA
TK (ANSI)	REPUBLIC OF KOREA
VILMAR	ROMANIA
THAI BENKAN (CANADOIL)	THAILAND
SPROMAK	U.K.
HUNTING PARK	U.K.
LINVIC	U.K.
MUNRO & MILLER	U.K.
ALASKAN COPPER AND BRASS COMPANY	USA
CLOSEBEND	USA
FLOWLINE	USA
HACKNEY LADISH	USA
MILLS IRON WORKS	USA
TFA	USA
WELDBEND	USA
WFI (BONNEY FORGE)	USA
CUSTOM ALLOY	USA
DYNAMIC PRODUCTS	USA
PRESCOR	USA
SHAW APP	USA
STEEL FORGING	USA

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17.2 STAINLESS STEEL

GALPERTI	COLOMBIA
RHEMA INTERNATIONAL	COLOMBIA
PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
FLOWLINE	USA
GERLIN	USA
APP	USA
ALLOY PIPING PRODUCTS	USA
BUHLMANN ARGENTINA S.A.	ARGENTINA
ERNE	AUSTRIA
EZ FLOW	CANADA
BSL	FRANCE
RTI INDUSTRI	FRANCE
BUTTING	GERMANY
UHLIG ROHRBOGEN	GERMANY
W. MAASS	GERMANY
WESTFALEN WERK	GERMANY
WILHELM GELDBACH	GERMANY
WILHELM SCHULZ	GERMANY
BASSI LUIGI	ITALY
CORPOSIDER	ITALY
PETROL RACCORDI	ITALY
RACCORDI FORGIATI	ITALY
RACCORTUBI	ITALY
SITAI INOX	ITALY
TECNOFORGE	ITALY
TECTUBE	ITALY
OMR / GAM RACCORDI	ITALY
ASK	JAPAN
BENKAN (BENEX CORPORATION)	JAPAN
SUMITOMO	JAPAN
KANZEN TETSU	MALAYSIA

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SCHULZ
SUNG KWANG BEND CO.
TK (ANSI)
VILMAR
TT (TUBACEX)
SANDVIK
TA CHEN (ANSI)
THAI BENKAN
RIO STAINLESS ENGINEERING
BEST WELD
CLOSEBEND
CUSTOM ALLOY
DYNAMIC PRODUCTS
FLO MAC

MALAYSIA
REPUBLIC OF KOREA
REPUBLIC OF KOREA
ROMANIA
SPAIN
SWEDEN
TAIWAN
THAILAND
U.K.
USA
USA
USA
USA
USA

17.3 ALLOY

GALPERTI
PROVETECMAR S.A.
AUGE INDUSTRIAL FASTENERS
ERNE
EZ FLOW
BSL T.R
SCHULZ
BASSI LUIGI
COPROSIDER
OMR
TECHTUBE
VIAR MECCANICA
BONNEY FORGE
CHERO PIPING
ASK
BENKAN (BENEX CORPORATION)
SUMITOMO
TK

COLOMBIA
COLOMBIA
USA
AUSTRIA
INTERNATIONAL
FRANCE
INTERNATIONAL
ITALY
ITALY
ITALY
ITALY
ITALY
INTERNATIONAL
ITALY
JAPAN
JAPAN
INTERNATIONAL
INTERNATIONAL

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TTI	SPAIN
ANVIL	INTERNATIONAL
SHAW APP	USA
CLOSEBEND	USA
CUSTOM ALLOY	USA
DYNAMIC PRODUCTS	USA
HACKNEY LADISH	USA
RAM FORGE	USA
STEEL FORGINGS	USA
WFI (BONNEY FORGE)	INTERNATIONAL
FLOWLINE	USA
MACH. INDUSTRIAL CORP.	USA

17.4 PVC/CPVC FITTINGS

PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
IPEX	INTERNATIONAL
INTERNATIONAL PLASTIC SYSTEMS	U.K.
CHARLOTTE PIPE	USA
HARVEL PLASTICS	USA
LASCO FITTINGS	USA
NORTH AMERICAN PIPE CO	USA
PLASTIC TRENDS INC. (ROYAL PIPE)	USA
SPEARS MANUFACTURING	USA

17.5 TUBE FITTINGS

RHEMA INTERNATIONAL	COLOMBIA
PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
IHARA SCIENCE CORPORATION	JAPAN
PARKER HANNIFIN	INTERNATIONAL
SWAGELOCK	INTERNATIONAL
TYLOK	INTERNATIONAL

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17.6 BW FITTINGS

	PROVETECMAR S.A.	COLOMBIA
	AUGE INDUSTRIAL FASTENERS	USA
	FLOWLINE	INTERNATIONAL
	APP	USA
	IMPOLAMA INDUSTRIAL SUPPLY	USA
*	GENOYER GROUP	INTERNATIONAL
*	BASSI LUIGI	ITALY
*	TECNOFORGE S.P.A.	ITALY
*	TECTUBI RACCORDI SRL	ITALY
*	OMR / GAM RACCORDI	ITALY
*	Industria MECCANICA BASSI LUIGI & C SPA	ITALY
*	PIANA SPA	ITALY
*	GAM RACCORDI	ITALY

17.7 COMPRESSION FITTINGS

	HOKE	INTERNATIONAL
*	PARKER	INTERNATIONAL
*	SWAGELOK	INTERNATIONAL
*	HY LOCK	INTERNATIONAL

17.8 BLINDS

RHEMA INTERNATIONAL	COLOMBIA
PROVETECMAR S.A.	COLOMBIA
HENDRIX SPECIALITY FABRICATION	USA

18 GROUP – FORGED FITTINGS

18.1 CARBON STEEL

GALPERTI	COLOMBIA
RHEMA INTERNATIONAL	COLOMBIA
PROVETECMAR S.A.	COLOMBIA

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AUGE INDUSTRIAL FASTENERS	USA
WELDING OUTLETS, INC	USA
BUHLMANN ARGENTINA S.A.	ARGENTINA
IMPOLAMA INDUSTRIAL SUPPLY	USA
IMPORTACIONES INDUSTRIALES LAMA S.A.	COLOMBIA
DELCORTE	FRANCE
DELTINOX	FRANCE
BRUCK	GERMANY
BONNEY FORGE	INTERNATIONAL
CHERO PIPING	ITALY
I.M.L.	ITALY
LAME	ITALY
M.E.G.A.	INTERNATIONAL
PETROL RACCORD	ITALY
TECHTUBE	ITALY
TECNOFORGE	ITALY
VIAR MECCANICA	ITALY
DONG JIN FITTING CO	REPUBLIC OF KOREA
SUNG KWANG BEND CO	REPUBLIC OF KOREA
ENARA	SPAIN
ULMA-FORJA	SPAIN
SPROMAK	U.K.
ANVIL	INTERNATIONAL
CAPITOL (THE PHOENIX FORGE GROUP)	USA
PENN MACHINE	USA
WESTBROOK	USA
WFI (BONNEY FORGE)	INTERNATIONAL

18.2 STAINLESS STEEL

GALPERTI	COLOMBIA
RHEMA INTERNATIONAL	COLOMBIA
PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
WELDING OUTLETS, INC	USA

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APP	USA
BUHLMANN ARGENTINA S.A.	ARGENTINA
IMPORTACIONES INDUSTRIALES LAMA S.A.	COLOMBIA
HUAYANG METAL	CHINA
DELCORTE	FRANCE
DELTINOX	FRANCE
VIRAJ FORGINGS	INDIA
BONNEY FORGE	ITALY
CHERO PIPING	ITALY
IML	ITALY
M.E.G.A.	INTERNATIONAL
PETROL RACCORD	ITALY
VIAR MECCANICA	ITALY
BENEX CORPORATION	JAPAN
NEUMIRA SL	SPAIN
ULMA FORJA	SPAIN
SPROMAK	U.K.
ALLOY STAINLESS (ASP)	USA
CAMCO (PHOENIX)	USA
PENN MACHINE	USA
WFI (BONNEY FORGE)	INTERNATIONAL

18.3 ALLOY

GALPERTI	COLOMBIA
RHEMA INTERNATIONAL	COLOMBIA
PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
WELDING OUTLETS, INC	USA
BUHLMANN ARGENTINA S.A.	ARGENTINA
IMPOLAMA INDUSTRIAL SUPPLY	USA
IMPORTACIONES INDUSTRIALES LAMA S.A.	COLOMBIA
IML	ITALY
M.E.G.A.	INTERNATIONAL
BENEX CORPORATION	JAPAN

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SPROMAK	U.K.
CAMCO	USA
PENN MACHINE	USA
PHOENIX	USA
WFI (BONNEY FORGE)	INTERNATIONAL

18.4 BLOCK TYPE FORGED STEEL FITTINGS

RHEMA INTERNATIONAL	COLOMBIA
PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
WELDING OUTLETS, INC	USA
BUHLMANN ARGENTINA S.A.	ARGENTINA
DELTINOX	FRANCE
CHERO PIPING	ITALY
M.E.G.A.	INTERNATIONAL
IML	ITALY
VIAR MECCANICA	ITALY
FUJI SPECIAL	JAPAN
KYOEI	JAPAN
SPROMAK	U.K.

19 GROUP – FLANGES

19.1 CARBON STEEL

GALPERTI	COLOMBIA
TRI-LAD	USA / CANADA
RHEMA INTERNATIONAL	COLOMBIA
PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
BUHLMANN ARGENTINA S.A.	ARGENTINA
IMPOLAMA INDUSTRIAL SUPPLY	USA
IMPORTACIONES INDUSTRIALES LAMA S.A.	COLOMBIA

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BALCOMBE ENGINEERING	AUSTRALIA
CAMAN ENGINEERING	AUSTRALIA
MGI	FRANCE/ROMANIA
WILHELM GELDBACH	GERMANY
SCHULZ	INTERNATIONAL
FLANSCHENWERKE BEBITZ	INTERNATIONAL
METALFAR	GERMANY/ITALY
FAD	INTERNATIONAL
MELESI	ITALY
OFFICINE SANTAFEDE	ITALY
GALPERTI	ITALY/USA
FUTAWA	JAPAN
SHIMODA IRON WORKS	JAPAN
KOREA FLANGE CO.	REPUBLIC OF KOREA
PRECISION FORGINGS	SAUDI ARABIA
ENARA	SPAIN
NEUMIRA SL	SPAIN
ULMA-FORJA	SPAIN
AMERIFORGE GROUP	USA
BOLTEX	USA
D-L FLANGE	USA
FEDERAL FLANGE	USA
FORGED VESSEL CONNECTIONS'	USA
KERKAU MANUFACTURING	USA
NATIONAL FLANGE	USA
PIPING PRODUCTS, INC.	USA

19.2 STAINLESS STEEL

GALPERTI	COLOMBIA
TRI-LAD	USA / CANADA
RHEMA INTERNATIONAL	COLOMBIA
PROVETECMAR S.A.	COLOMBIA
BUHLMANN ARGENTINA S.A.	ARGENTINA
IMPORTACIONES INDUSTRIALES LAMA S.A.	COLOMBIA

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HERTACANT	BELGIUM
MGI	FRANCE/ROMANIA
FLANSCHENWERKE BEBITZ	INTERNATIONAL
WILHELM GELDBACH	GERMANY
SCHULZ	INTERNATIONAL
MAASS	INTERNATIONAL
FAD	ITALY
MELESI	INTERNATIONAL
METALFAR	ITALY
OFFICINE SANTAFEDE	ITALY
GALPERTI GROUP	ITALY/USA
FUTAWA	JAPAN
SHIMODA IRON WORKS	JAPAN
KOFCO	REPUBLIC OF KOREA
KOREA FLANGE CO	REPUBLIC OF KOREA
PRECISION FORGINGS	SAUDI ARABIA
NEUMIRA SL	SPAIN
TEXAS METALS	USA
AMERIFORGE GROUP	USA
GERLIN(TUBELINE)	USA
KERKAU MANUFACTURING	USA
W.F.I.	USA
WESTERN FORGE	USA

19.3 ALLOY

GALPERTI	COLOMBIA
TRI-LAD	USA / CANADA
RHEMA INTERNATIONAL	COLOMBIA
PROVETECMAR S.A.	COLOMBIA
ULMA	INTERNATIONAL
WILHELP GELBACH	INTERNATIONAL
BUHLMANN ARGENTINA S.A.	ARGENTINA
IMPOLAMA INDUSTRIAL SUPPLY	USA
IMPORTACIONES INDUSTRIALES LAMA S.A.	COLOMBIA

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BEBITZ	GERMANY
GALPERTI	ITALY
METALFAR	ITALY
KOREA FLANGE CO	REPUBLIC OF KOREA
MAASS	USA
TEXAS METALS	USA
TRINITY	USA
WESTERN FORGE	USA

20 GROUP – O'LETS

IMPOLAMA INDUSTRIAL SUPPLY	USA
IMPORTACIONES INDUSTRIALES LAMA S.A.	COLOMBIA
GALPERTI	ITALY
DELCORTE	FRANCE
BONNEY FORGE	ITALY
IML	ITALY
M.E.G.A.	ITALY
VIAR MECCANICA	ITALY
ANVIL	USA
CAPITOL (PHOENIX)	USA
PENN MACHINE	USA
WESTBROOK	USA
W.F.I.	USA

21 GROUP – PIPE SUPPORTS

21.1 PIPE SUPPORTS

PROVETECMAR S.A.	COLOMBIA
SUPERIOR PLUS CONSTRUCTION PRODUCTS	CANADA
ADVANCED PIPING ENGINEERING	USA
PIPES SUPPORTS LIMITED	INTERNATIONAL
BINDER ENGINEERING	INTERNATIONAL
PSI PIPELINE SYSTEMS	CANADA

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LISEGA	GERMANY
CARPENTER PATERSON	U.K.
PIPE SUPPORT SYSTEMS	U.K.
AAA TECHNOLOGY	USA
BERGEN POWER	USA
GRINNEL CORP.	USA
PIPING TECHNOLOGY	USA
RILCO	USA

21.2 CRYOGENIC PIPE SUPPORTS-DELETE SECTION AT THE CLIENTS REQUEST

21.3 SPRING HANGERS

	PROVETECMAR S.A.	COLOMBIA
	ADVANCED PIPING ENGINEERING	USA
	PIPE SUPPORTS LIMITED	INTERNATIONAL
	LISEGA	GERMANY
*	CASTIM2000/FLEXIDER	ITALY
*	ACOM	ITALY
	SANWA TEKKE CORP	JAPAN
	CARPENTER PATERSON	U.K.
*	PIPE SUPPORT SYSTEMS	U.K.
	UEC UNITHERM	U.K.
	ANVIL	USA
	BERGEN POWER	USA
	FRONEK	USA
	PIPING TECHNOLOGY	USA
	RILCO	USA
*	GRINNEL CORP.	USA/EUR

21.4 WEAR PADS – NON METALLIC

PROVETECMAR S.A.	COLOMBIA
ADVANCED PIPING PRODUCTS	USA

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ADVANTAGE INDUSTRIAL SOLUTIONS

USA

22 GROUP – VALVES

22.1 BUTTERFLY VALVES

	WEIR VALVES & CONTROLS	USA
	PROVETECMAR S.A.	COLOMBIA
	AUGE INDUSTRIAL FASTENERS	USA
	PIPELINE VALVE SPECIALITY	USA
	ABZ VALVES & CONTROLS	USA
	TA VALVE CORP.	USA
	VALVOSPAIN	SPAIN
	VALVETECHNOLOGIES	INTERNATIONAL
	FLOW LINE	USA
	BRAY	USA
	VALVO SPAIN (MTS)	SPAIN
*	GUR	AUS
*	K.T.C.	AUS
	VELAN	CANADA
	NEWAY	CHINA
	NELES JAMESBURY	INTERNATIONAL
*	KSB AMRI	FRANCE
	ALSTOM	FRANCE
	AMRI (KSB)	FRANCE
	SAPAG (TYCO)	FRANCE
*	XOMOX	GERMANY
	ADAM ARMATUREN	GERMANY
	LINDE MAPAG	GERMANY
	VIRGO	INTERNATIONAL
*	ORION	ITALY
*	VITAS – VALVITALIA	ITALY
	ORTON	ITALY
	VANESSA (METAL SEAT) (TYCO)	ITALY

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	TOMOE VALVE	JAPAN
	WESTAD	NORWAY
	BAC	SPAIN
*	CRANE PROCESS FLOW TECHNOLOGIES	U.K.
*	CRANE STOCKHAM VALVES	U.K.
	HOBBS VALVE	U.K.
	SOLENT & PRATT	U.K.
	WEIR VALVES	U.K.
	DEZURIK	USA
	DYNAQUIP	USA
	FISHER (POSI-SEAL)	USA
	KEYSTONE (SOFT SEAT) (TYCO)	USA

22.1.1 HIGH PERFORMANCE BUTTERFLY VALVES

WEIR VALVES & CONTROLS	USA
AUGE INDUSTRIAL FASTENERS	USA
PIPELINE VALVE SPECIALITY	USA
NEWAY	CHINA
VALVOSPAIN	SPAIN
VALVETECHNOLOGIES	INTERNATIONAL
VIRGO	INTERNATIONAL
TOMOE VALVE	JAPAN
JAMESBURY	FINLAND / CHINA
BRAY	USA
NELES (METSO)	FINLAND
ADAMS ARMATUREN	GERMANY
LINDE MAPAG	GERMANY
ZWICK AMATUREN	GERMANY
ADVANCE VALVES	INDIA
KEYSTONE VANESSA (TYCO)	ITALY
ORTON	ITALY
HOBBS VALVE	UK
SOLENT & PRATT	UK
FLOWSEAL (CRANE)	USA

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ORBIT (CAMERON)
VALVO SPAIN

USA
SPAIN

22.2 CAST BRONZE GATE, GLOBE & CHECK

PROVETECMAR S.A.	COLOMBIA
XANOR DE MEXICO S.A. DE C.V.	MEXICO
AUGE INDUSTRIAL FASTENERS	USA
PIPELINE VALVE SPECIALITY	USA
VALVOSPAIN	SPAIN
VALVETECHNOLOGIES	INTERNATIONAL
TRUFLO RONA	BELGIUM
* VELAN	CANADA
* COLVES	CHILE
* NEWAY	CHILE
* NEWMANS	CHILE
* MALBRANQUE	FRANCE
AUTEXIER	FRANCE
* BRUNNBAUER	GERMANY
* PERSTA	GERMANY
* LARSEN & TOUBRO/ AUDCO	INDIA
* VITAS/VALVITALIA	INTERNATIONAL
* LA VALVOMECCANICA	ITALY
* ORION	ITALY
* PETROVALVES	ITALY
* TYCO/FASANI	ITALY
CONTI	ITALY
FASANI	ITALY
RAIMONDI (TYCO)	ITALY
* YONEKY	JAPAN
KITZ	JAPAN
TOYO VALVE	JAPAN
WALWORTH	MEXICO
TONG YUNG (TY)	REPUBLIC OF KOREA

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	AUDCO	U.K.
	JOHN MILLS & SONS	U.K.
	SHIPHAM	U.K.
*	CRANE	USA
*	LOCKWOOD/TONG YUNG	USA
	DURCO (FLOWERVE)	USA
	FAIRBANKS (ZY-TECH)	USA
	PIMA VALVES	USA
	POWELL VALVES	USA
	NIBCO	USA
	MILWAUKEE	USA
	STOCKHAM (CRANE)	USA

22.3 CAST IRON GATE, GLOBE & CHECK VALVES

PROVETECMAR S.A.	COLOMBIA
XANOR DE MEXICO S.A. DE C.V.	MEXICO
AUGE INDUSTRIAL FASTENERS	USA
PIPELINE VALVE SPECIALITY	USA
DSI (ZY-TECH)	USA
VALVOSPAIN	SPAIN
VALVETECHNOLOGIES	INTERNATIONAL
NEWMAN HATTERSLEY (CRANE)	CANADA
MALBRANQUE	FRANCE
RAIMONDI (TYCO)	ITALY
FURUKAWA KOGYO	JAPAN
KITZ	JAPAN
TOYO VALVE	JAPAN
WALWORTH	MEXICO
TONG YUNG (TY)	REPUBLIC OF KOREA
FLUVAL	SPAIN
HATTERSLEY (CRANE)	U.K.
JOHN MILLS & SONS	U.K.
AMERICAN FLOW CONTROL	USA
CLOW (MCWANE)	USA

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KENNEDY VALVE	USA
MILWAUKEE VALVE	USA
STOCKHAM (CRANE)	USA
NIBCO	USA
CVS CONTROLS	USA

22.4 **SMALL BORE FORGED STEEL VALVES GATE, GLOBE & CHECK (CARBON/ALLOY/SS)**

BERIC DAVIS COMPANIES	INTERNATIONAL
PROVETECMAR S.A.	COLOMBIA
XANOR DE MEXICO S.A. DE C.V.	MEXICO
AUGE INDUSTRIAL FASTENERS	USA
PIPELINE VALVE SPECIALITY	USA
ILSHIN VALVE CO., LTD.	KOREA
VALVOSPAIN	SPAIN
VALVETECHNOLOGIES	INTERNATIONAL
TRUFLO RONA	BELGIUM
VELAN	CANADA
NEWAY	CHINA
ROFORGE	FRANCE
SACCAP	FRANCE
SAPAG	FRANCE
APV	GERMANY
* ALCO	ITALY
* BFE	ITALY
BONNEY FORGE	ITALY
DOUGLAS CHERO	ITALY
LVF	ITALY
OMB	ITALY
PETROVALVE	ITALY
SHORITSU SEISAKUSHO	JAPAN
TK VALVES (EXCEPT 800#)	JAPAN
YONEKI VALVE (EXCEPT 800#)	JAPAN
WALWORTH	MEXICO

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	SEO-HUNG METAL	REPUBLIC OF KOREA
	TONG YUNG (TY)	REPUBLIC OF KOREA
	DSI (ZY-TECH)	USA
	EDWARDS & VOGT	USA
*	VOGT	USA
	NEWMANS (COOPER)	USA/CHINA
	CVS CONTROLS	USA
△	THE NEWDELL COMPANY AN ERIKS COMPANY (SMITH VALVES)	USA

22.5 LARGE BORE CARBON STEEL GATE, GLOBE & CHECK VALVES

BERIC DAVIS COMPANIES	INTERNATIONAL
WEIR VALVES & CONTROLS	USA
PROVETECMAR S.A.	COLOMBIA
XANOR DE MEXICO S.A. DE C.V.	MEXICO
AUGE INDUSTRIAL FASTENERS	USA
PIPELINE VALVE SPECIALITY	USA
VALVOSPAIN	SPAIN
VALVETECHNOLOGIES	INTERNATIONAL
TRUFLO RONA	BELGIUM
VELAN	CANADA/CHINA
NEWAY	CHINA
DHV	CHINA (CNV)
DESCOTE (TYCO)	FRANCE
MALBRANQUE	FRANCE
AUDCO	INDIA
FASANI (TYCO)	ITALY
FIRSA	ITALY
ORION	ITALY
PETROL VALVES	ITALY
RAIMONDI (TYCO)	ITALY
VALVITALIA	ITALY
VALVOMETAL (SITINDUSTRIE)	ITALY

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VALVOSIDER	ITALY
VITAS	ITALY
HIRATA VALVE	JAPAN
HITACHI	JAPAN
TK VALVE	JAPAN
TOYO VALVE	JAPAN
YONEKI VALVE	JAPAN
KITZ	JAPAN/CHINA
WALWORTH	MEXICO/CHINA
PAN-KOREA	REPUBLIC OF KOREA
TONG YUNG (TY)	REPUBLIC OF KOREA
FLUVAL	SPAIN
LAZARO ITUARTE	SPAIN
POYAM	SPAIN
VALVO SPAIN	SPAIN
HATTERSLEY (CRANE)	U.K.
HOPKINSONS (WEIR)	U.K.
AVCO	USA
FNW	USA
PACIFIC VALVES (CRANE)	USA
POWELL VALVES	USA
NIBCO	USA
NEWMANS (COOPER)	USA/CHINA
DSI (ZY-TECH)	USA/CHINA (JEV)
PBV (ZY-TECH) (CHECK ONLY)	USA/CHINA (JEV)
CRANE	USA/CHINA (YDF)
CVS CONTROLS	USA

22.6 STAINLESS STEEL GATE, GLOBE & CHECK VALVES

WEIR VALVES & CONTROLS	USA
RHEMA INTERNATIONAL	COLOMBIA
PROVETECMAR S.A.	COLOMBIA
XANOR DE MEXICO S.A. DE C.V.	MEXICO

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AUGE INDUSTRIAL FASTENERS	USA
PIPELINE VALVE SPECIALITY	USA
VALVOSPAIN	SPAIN
VALVETECHNOLOGIES	INTERNATIONAL
TRUFLO RONA	BELGIUM
VELAN	CANADA
NEWAY	CHINA
MALBRANQUE	FRANCE
AUDCO	INDIA
FASANI	ITALY
OMB	ITALY
ORION	ITALY
PETROL VALVES	ITALY
RAIMONDI (TYCO)	ITALY
VALVOMETAL (SITINDUSTRIE)	ITALY
VALVOSIDER	ITALY
HIRATA VALVE	JAPAN
HITACHI	JAPAN
KITZ	JAPAN
TK VALVE	JAPAN
YONEKI VALVE	JAPAN
WALWORTH	MEXICO
PAN KOREA	REPUBLIC OF KOREA
TONG YUNG (TY)	REPUBLIC OF KOREA
POYAM	SPAIN
VALVO SPAIN (MTS)	SPAIN
HOPKINSONS (WEIR)	U.K.
COOPER CAMERON	U.K./USA
PACIFIC VALVES (CRANE)	U.K./USA
DAVIS VALVE	USA
DSI (ZY-TECH)	USA
FNW	USA

22.7 ALLOY GATE, GLOBE & CHECK VALVES

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WEIR VALVES & CONTROLS	USA
PROVETECMAR S.A.	COLOMBIA
XANOR DE MEXICO S.A. DE C.V.	MEXICO
AUGE INDUSTRIAL FASTENERS	USA
DSI VALVE	USA
PIPELINE VALVE SPECIALITY	USA
VALVOSPAIN	SPAIN
VALVETECHNOLOGIES	INTERNATIONAL
TRUFLO RONA	BELGIUM
VELAN	CANADA
NEWAY	CHINA
MALBRANQUE	FRANCE
FASANI	ITALY
ORION	ITALY
RAIMONDI (TYCO)	ITALY
VALVOMETAL (SITINDUSTRIE)	ITALY
HITACHI	JAPAN
KITZ	JAPAN
TK VALVE	JAPAN
YONEKI VALVE	JAPAN
WALWORTH	MEXICO
PAN-KOREA	REPUBLIC OF KOREA
TONG YUNG (TY)	REPUBLIC OF KOREA
FLUVAL	SPAIN
VALVO SPAIN (MTS)	SPAIN
DRESSER COOPER	USA
PACIFIC VALVES (CRANE)	USA
CVS CONTROLS	USA

22.8 PLUG VALVES

RHEMA INTERNATIONAL	COLOMBIA
PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA

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PIPELINE VALVE SPECIALITY	USA
VALVOSPAIN	SPAIN
VALVETECHNOLOGIES	INTERNATIONAL
CHRISTENSENS	DENMARK
AUDCO	INDIA
TK VALVES (LUBRICATED ONLY)	JAPAN
TOYO VALVE (LUBRICATED ONLY)	JAPAN
WALWORTH (LUBRICATED ONLY)	MEXICO
VALVO SPAIN (MTS)	SPAIN
NORDSTORM	USA
DANIEL	USA
DURCO (FLOWSERVE)	USA
GENERAL (CAMERON) (TWIN SEAL)	USA
ORBIT (CAMERON) (TRU SEAL)	USA
XOMOX (TUFLINE)	USA

22.9 **WAFER CHECK VALVES**

PROVETECMAR S.A.	COLOMBIA
PIPELINE VALVE SPECIALITY	USA
VALVOSPAIN	SPAIN
VALVETECHNOLOGIES	INTERNATIONAL
TRUFLO RONA	BELGIUM
VELAN (PRO-QUIP)	CANADA
AMRI (KSB)	FRANCE
FCT (TYCO)	FRANCE
ADVANCE VALVES	INDIA
FASANI (TYCO)	ITALY
TK VALVES	JAPAN
TOYO VALVE	JAPAN
GOODWIN	U.K.
STOCKHAM (CRANE)	USA/U.K.
VALVO SPAIN	SPAIN

22.9.1 **BALL VALVES (CARBON STEEL)**

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RHEMA INTERNATIONAL	COLOMBIA
PROVETECMAR S.A.	COLOMBIA
XANOR DE MEXICO S.A. DE C.V.	MEXICO
AUGE INDUSTRIAL FASTENERS	USA
PIPELINE VALVE SPECIALITY	USA
MARPEC (FLOWSERVE)	USA
VALVO	SPAIN
FLOWSERVE	INTERNATIONAL
VIRGO	INTERNATIONAL
PBM	INTERNATIONAL
TRUFLO RONA	BELGIUM
NEWMAN HATTERSLEY (CRANE)	CANADA
VELAN	CANADA / CHINA
DHV	CHINA (CNV)
NEWAY	CHINA
WALWORTH (TRUNNION TYPE)	CHINA
NELES JAMESBURY (METSO)	INTERNATIONAL
FCT (TYCO)	FRANCE
SAPAG	FRANCE
DAFRAM	ITALY
DELLA FOGIA	ITALY
GROVE (CAMERON)	ITALY
OMB VALVE	ITALY
OMS SALERI	ITALY
PETROL VALVE	ITALY
PIBVIASSE	ITALY
RAIMONDI	ITALY
TORMENE	ITALY
TRP PERAR	ITALY
VALVITALIA	ITALY
KITZ	JAPAN
KTM (TYCO)	KOREA
TONG YUNG (TY)	KOREA

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VALVO SPAIN (MTS)	SPAIN
BAC	SPAIN
V. BACH	SPAIN
JC FABRICA	SPAIN
POYAM	SPAIN
WALTHON WEIR	SPAIN
BEL VALVES	SPAIN
WORCHESTER (FLOWSERVE)	SPAIN
APOLLO (CONBRACO)	USA
AVCO	USA
DAVIS VALVE	USA
DYNAQUIP	USA
HINDLE COCKBURN	USA
NIBCO	USA
NEWMANS (COOPER)	USA
ORBIT (CAMERON)	USA
PBV (ZYTECH)	USA/CHINA/(JEV)
WKM (CAMERON)	USA
KF	USA

22.10 DIAPHRAGM VALVES

PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
PIPELINE VALVE SPECIALITY	USA
VALVOSPAIN	SPAIN
VALVETECHNOLOGIES	INTERNATIONAL
GEMU	INTERNATIONAL
KTM (TYCO)	JAPAN
NIPPON DAIYA	JAPAN
SAUNDERS VALVE (CRANE)	U.K.
ITT GRINNELL (TYCO)	USA

22.10.1 BALL VALVES STAINLESS STEEL USA

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RHEMA INTERNATIONAL	COLOMBIA
PROVETECMAR S.A.	COLOMBIA
XANOR DE MEXICO S.A. DE C.V.	MEXICO
AUGE INDUSTRIAL FASTENERS	USA
PIPELINE VALVE SPECIALITY	USA
PBV	USA
VALVO	SPAIN
FLOWSERVE	INTERNATIONAL
VIRGO	INTERNATIONAL
PBM	INTERNATIONAL
ADANAC	CANADA
VELAN	CANADA
NELES JAMESBURY (METSO)	INTERNATIONAL
FCT (TYCO)	FRANCE
VIRGO	INTERNATIONAL
DELLA FOGIA	ITALY
GROVE (CAMERON)	ITALY
OMS SALERI	ITALY
PETROL VALVE	ITALY
PIBIVESSE	ITALY
RAIMONDI (TYCO)	ITALY
TORMENE	ITALY
TRP PERAR	ITALY
KTM (TYCO)	ITALY
KITZ	JAPAN/ITALY
BAC	SPAIN
V. BACH	SPAIN
JC FABRICA	SPAIN
POYAM	SPAIN
VALVO SPAIN (MTS)	SPAIN
HINDLE VALVES (TYCO)	UK
ORBIT (CAMERON)	USA
VALVTECHNOLOGIES	USA

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22.11 Y-PATTERN & BLOW DOWN VALVES

WEIR VALVES & CONTROLS	USA
PROVETECMAR S.A.	COLOMBIA
XANOR DE MEXICO S.A. DE C.V.	MEXICO
AUGE INDUSTRIAL FASTENERS	USA
PIPELINE VALVE SPECIALITY	USA
VALVOSPAIN	SPAIN
VALVETECHNOLOGIES	INTERNATIONAL
VELAN	CANADA
SACCAP	FRANCE
UFR	FRANCE
GESTRA (FLOWSERVE)	GERMANY
TK VALVES	JAPAN
YONEKI VALVE	JAPAN
EDWARDS	USA
SPIREX – SARCO	USA
HILLS MCCANNNA	USA
YARWAY (TYCO)	USA

22.12 NON-SLAM CHECK VALVES (AXIAL)

PROVETECMAR S.A.	COLOMBIA
XANOR DE MEXICO S.A. DE C.V.	MEXICO
AUGE INDUSTRIAL FASTENERS	USA
PIPELINE VALVE SPECIALITY	USA
DURABLA (DFT)	USA
VALVOSPAIN	SPAIN
VALVETECHNOLOGIES	INTERNATIONAL
FCT (TYCO)	FRANCE
NOREVA (GOODWIN)	GERMANY
PETROVALVE	ITALY
STOCKHAM (CRANE)	USA/U.K.

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22.13 STEAM TRAPS/VACUUM TRAPS

	PROVETECMAR S.A.	COLOMBIA
	AUGE INDUSTRIAL FASTENERS	USA
	PIPELINE VALVE SPECIALITY	USA
	VELAN	USA
	SAPAG (TYCO)	FRANCE
	GESTRA (FLOWERVE)	GERMANY
*	CDB	ITALY
	DOUGLAS	ITALY
	MIYAWAKI	JAPAN
	NIPPON KEYSTONE	JAPAN
	TLV	JAPAN
	SPIRAX SARCO	U.K.
	ARMSTRONG INTERNATIONAL	USA
	KEYSTONE (TYCO)	USA
	YARWAY (TYCO)	USA

22.14 THROUGH CONDUIT VALVES

PROVETECMAR S.A.	COLOMBIA
XANOR DE MEXICO S.A. DE C.V.	MEXICO
AUGE INDUSTRIAL FASTENERS	USA
PIPELINE VALVE SPECIALITY	USA
VALVO	SPAIN
FLOWERVE	INTERNATIONAL
PETROVALVES	ITALY
VALVITALIA	ITALY
BELGIUM VALVES	U.K.

22.15 CONTROL VALVES

VALVOSPAIN	SPAIN
VALVETECHNOLOGIES	INTERNATIONAL
PUFFER SWEIVEN	USA/FRANCE

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DMC CARTER CHAMBERS
FLOWERVE

USA
USA

22.16 ON/OFF (BALL AND BUTTERFLY TYPE) VALVES

VALVOSPAIN	SPAIN
VALVETECHNOLOGIES	INTERNATIONAL
VIRGO	INTERNATIONAL
TYCO	INTERNATIONAL
* CAMERON/GROVE	INTERNATIONAL
CAMERON/ORBIT	INTERNATIONAL
KITZ	JAPAN
NELES JAMESBURY	INTERNATIONAL
POSI SEAL	USA
VENESSA	USA
WORCHESTER	USA
ZWICK	USA
VELAN	USA/CAN
VALVETECHNOLOGIES	USA

22.17 SEVERE SERVICE (HIGH DP)

PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
PIPELINE VALVE SPECIALITY	USA
VIRGO	INTERNATIONAL
NELES	FINLAND / CHINA
CCI	USA
PUFFER SWEIVEN	USA/FRANCE
DMC CARTER CHAMBERS	USA
FLOWERVE – ARGUS	USA

22.18 ACID GAS DIVERter VALVES

PROVETECMAR S.A.	COLOMBIA
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AUGE INDUSTRIAL FASTENERS	USA
PIPELINE VALVE SPECIALITY	USA
CAMERON / ORBIT	USA
VALVOSPAIN	SPAIN
VALVETECHNOLOGIES	INTERNATIONAL
VANNESA	USA
NELES JAMESBURY	INTERNATIONAL
TRICENTRIC	USA
DEZURICK	USA

22.19 ELECTRIC MOTOR VALVE OPERATORS

PIPELINE VALVE SPECIALITY	USA
VALVOSPAIN	SPAIN
VALVETECHNOLOGIES	INTERNATIONAL
LIMITORQUE	USA/FRANCE
ROTORK	USA/FRANCE
EIM CONTROLS	USA

22.20 PNEUMATIC ACTUATORS

PIPELINE VALVE SPECIALITY	USA
NELES JAMESBURY, QTRCO	INTERNATIONAL
ROTORK	USA
BETTIS	USA
VALTEK	USA
VALVETECHNOLOGIES	USA

22.21 OTHER ACTUATORS

PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
PIPELINE VALVE SPECIALITY	USA
KINETROL	USA

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HYTORK	USA
BAILEY	USA
TAPCO	USA
VALVETECHNOLOGIES	USA
EIM CONTROLS	USA

22.22 SOLENOID VALVES

PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
PIPELINE VALVE SPECIALITY	USA
VALVOSPAIN	SPAIN
VALVETECHNOLOGIES	INTERNATIONAL
NUMATICS	INTERNATIONAL
AUTOMATIC SWITCH CO (ASCO)	USA
VERSA	USA

22.23 SAFETY RELIEF VALVES

PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
PIPELINE VALVE SPECIALITY	USA
VALVOSPAIN	SPAIN
VALVETECHNOLOGIES	INTERNATIONAL
ANDERSON GREENWOOD (CROSBY)	USA
FARRIS	USA
CONSOLIDATED (DRESSER)	USA/SWEDEN
TYCO	USA

22.24 RUPTURE DISCS

PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
PIPELINE VALVE SPECIALITY	USA
BS & B SAFETY SYSTEMS, INC	USA

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FIKE METAL PRODUCT CORPORATION	USA
CONTINENTAL DISK	USA

22.25 TRANSDUCERS

PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
PIPELINE VALVE SPECIALITY	USA
DMC CARTER CHAMBERS	USA
ROSEMOUNT	USA
MOORE INDUSTRIES	USA
PHOENIX CONTACT	USA
YOKOGAWA	JAPAN

22.26 POSITIONERS

PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
PIPELINE VALVE SPECIALITY	USA
NELES (METSO)	FINLAND / CHINA
FISHER	USA
DMC CARTER CHAMBERS	USA

22.27 ELECTRIC VALVE-OPERATORS

PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
PIPELINE VALVE SPECIALITY	USA
VALVOSPAIN	SPAIN
VALVETECHNOLOGIES	INTERNATIONAL
EMI	USA
LIMITORQUE	USA
ROTORK	USA

22.28 VALVE-CONTROL, GLOBE AND ANGLE

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PIPELINE VALVE SPECIALITY	USA
VALVOSPAIN	SPAIN
VALVETECHNOLOGIES	INTERNATIONAL
FISHER	USA
DMC CARTER CHAMBERS	USA
VALTEK	USA
CCI	USA
NELES	U.K.

22.29 VALVE-MANIFOLD NEEDLE, TUBING ETC.

PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
PIPELINE VALVE SPECIALITY	USA
VALVOSPAIN	SPAIN
VALVETECHNOLOGIES	INTERNATIONAL
PGI INTERNATIONAL	CHINA
WHITEY	USA
OLIVER	U.K.
ANDERSON GREENWOOD & COMPANY (AGCO)	USA
HEX VALVES	USA
PARKER HANNIFIN	USA
SWAGELOK	USA
HOKE, INC. (NEEDLE VALVES)	USA

22.30 VALVES, PRESSURE, SELF-OPERATED

GRIFFCO VALVE	USA
AUGE INDUSTRIAL FASTENERS	USA
PIPELINE VALVE SPECIALITY	USA
VALVOSPAIN	SPAIN
VALVETECHNOLOGIES	INTERNATIONAL
FISHER	USA

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DMC CARTER CHAMBERS

USA

22.31 VALVE POSITION INDICATOR / SWITCH

VALVOSPAIN

SPAIN

VALVETECHNOLOGIES

INTERNATIONAL

STONEL

USA

FISHER

USA

WESTLOK

USA

TOPWORX

USA

22.32 DECANTATION VALVE

PROVETECMAR S.A.

COLOMBIA

AUGE INDUSTRIAL FASTENERS

USA

PIPELINE VALVE SPECIALITY

USA

VALVETECHNOLOGIES

INTERNATIONAL

BELFIELD

USA

△

DAWCUL LIMITED

UK

22.33 LINE BLIND VALVES

SCHUF USA, INC.

USA

STRAHMAN VALVES, INC.

USA

22.34 DELUGE VALVES

△

DCVMX VALVULAS DE CONTROL MEXICO
(DOROT MEXICO)

MEXICO

23 GROUP – MISCELLANEOUS

23.1 METALLIC EXPANSION JOINTS

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*	AUGE INDUSTRIAL FASTENERS	USA
	EAGLE BURGMANN	INTERNATIONAL
	RHEMA INTERNATIONAL	COLOMBIA
	PROVETECMAR S.A.	COLOMBIA
	AUGE INDUSTRIAL FASTENERS	USA
	LORTZ	USA
	ACC LA JONCHERE	FRANCE
	NORDON & CIE	FRANCE
	SFZ	FRANCE
	IWKA REGLER & KOM	GERMANY
	WITZENMANN	GERMANY/U.K.
	FLEXIDER	ITALY
	OKUDA SOGABE	JAPAN
	TOKYO RASENKAN	JAPAN
	MACOGA	SPAIN
	MUNRO MILLER	U.K.
	ADSCO	USA
	AMERICAN BOA INC	USA
	BADGER INC	USA
	EXPANSION JOINT SYSTEMS (EJS)	USA
	HYSpan	USA
	LAMONS	USA
	MICRO FLEX	USA
	PIPING TECHNOLOGY & PRODUCTS (PTP)	USA
	SENIOR FLEXONICS PATHWAY	USA
	PATHWAY BELLOWS	USA

23.2 NON-METALLIC EXPANSION JOINTS

*	EAGLE BURGMANN	INTERNATIONAL
	RHEMA INTERNATIONAL	COLOMBIA
	AUGE INDUSTRIAL FASTENERS	USA
	PROVETECMAR S.A.	COLOMBIA
	AUGE INDUSTRIAL FASTENERS	USA
	STENFLEX	ITALY

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BADGER INC	USA
EXPANSION JOINT SYSTEMS	USA
GARLOCK	USA
HOLZ EXPANSION JOINTS	USA
MERCER	USA
PIPING TECHNOLOGY	USA
PROCO PRODUCTS	USA
RESISTOFLEX	USA
SENIOR FLEXONIC PATHWAY	USA
UNAFLEX	USA

23.3 RUBBER EXPANSION JOINTS

RHEMA INTERNATIONAL	COLOMBIA
PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
INDEPENDENT HOSE AND EXPANSION JOINT	
STENFLEX	GERMANY
BRIDGESTONE	JAPAN
SEIBU POLYMER	JAPAN
POSIFLEX	U.K.
GARLOCK	USA
GENERAL RUBBER	USA
GOODALL RUBBER	USA
HOLTZ	USA
LAMONS	USA
UNAFLEX	USA
PIPING TECHNOLOGY & PRODUCTS	USA

23.4 RING TYPE JOINT GASKETS

PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA

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DAN-LOC BOLT & GASKET	
FLEXITALLIC	USA
SCOT	USA
LAMONS	USA
K&W	USA
GARLOCK	USA
WOLAR	USA
SEVAL	ITALY
TECONREX	ITALY
GASKET INTERNATIONAL	ITALY

23.5 TRANSITION JOINTS (LOW TEMP/LOW PRESSURE)

RHEMA INTERNATIONAL	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
THEVENET & CLERJOUNIE	FRANCE
ASAHI	JAPAN
BI-BRAZE	USA
EXPLOSIVE FABRICATORS	USA
TUBE TURN	USA
CAPE CONTRACT	U.K.
BARCLAD	USA

23.6 FLEXIBLE METAL HOSE

PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
AMERFLEX RUBBER & GASKET CO.	USA
TRIPLEX	USA
INDEPENDANT HOSE & EXPANSION JOINT	USA
ATLANTIC METAL HOSE	USA
GOODALL	USA
INDEPENDENT HOSE SUPPLY	USA
SENIOR FLEXONIC PATHWAY	USA

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UNAFLEX	USA
HOUSTON HOSE & SPECIALTY CO.	USA
HY-LOK	USA
OMEGA-FLEX	USA

23.7 **BOLTS, NUTS, AND WASHERS**

△	INFASCO DISTRIBUTION	CANADA
△	VULCAN THREADED PRODUCTS INC.	USA
△	VEGAS FASTENER MANUFACTURING	USA
	THE FASTENER COMPANY	USA
	GULF COAST FASTENERS	USA
	NUCOR	USA
	CHUN YU WORKS	USA
	ALLOY & STAINLESS FASTENERS	USA
	AUGE INDUSTRIAL FASTENERS	USA
	COPPER STATE BOLT & NUT CO.	USA
	NUCOR FASTENERS DIVISION	USA
	CARDINAL FASTENERS	USA
	DAN-LOC	USA
	HIGHLAND THREADS	USA
	LAMONS	USA
	LONE STAR BOLT AND SCREW	USA
	TEXAS BOLT COMPANY	USA
	THREADED STEEL PRODUCTS	USA
	STANDARD FASTNER	USA
△	CIA INDUSTRIAL H CARLOS SCHNEIDER	BRAZIL
	PROVETECMAR S.A.	COLOMBIA
	FORJAS BOLIVAR	COLOMBIA
	MANTORNILLOS	COLOMBIA
	GUTEMBERTO	COLOMBIA
	IMPUCHE	COLOMBIA
	AUGE	MEXICO
	KOREA BOLT CO.	KOREA
	COVENTRY FASTENERS	AUSTRALIA

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	HOBSON ENGINEERING	AUSTRALIA
	UNIVERSAL FASTENERS	AUSTRALIA
	QIQI HIGH PRESSURE FASTENER	CHINA
	CATHELAIN	FRANCE
	JUNGBLODT	GERMANY
*	ANCHORPRO	ITALY
	BEA	ITALY
*	IML	ITALY
	OME	ITALY
*	PRESSBOLT	ITALY
	VSP BULLONERIA	ITALY
	SANWA IRON WORKS	JAPAN
	TAKENAKA	JAPAN
	AL RASHED FASTENERS	SAUDI ARABIA
	SAUDI BEA MANUFACTURING	SAUDI ARABIA
	SENG HENG ENGINEERING	SINGAPORE
	TRISTAR INDUSTRIES	SINGAPORE
	EURO FASTENERS	U.K.
	GKN	U.K.
	PROSPER ENGINEERING	U.K.
	ROLLSTUD	U.K.
	STEADFAST BOLTING	U.K.
	TRIPLEFAST	U.K.

23.8 GASKETS – FLAT RING

PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
FLEXITALLIC	USA
DURABLA	CANADA
SEVAL SRL	ITALY
TOMBO	JAPAN
NOVUS SEALING	U.K.

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BELDAM CROSSLEY	U.K.
COLTEC	USA
GARLOCK	USA
KLINGER	USA
LAMONS	USA
MARINE & PETROLEUM	USA
PIKOTEK	USA
LONE STAR	USA

23.9 GASKETS – FLEXIBLE GRAPHITE

PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
FURON	USA
FLEXITALLIC	USA
SEVAL SRL	ITALY
TOMBO	JAPAN
NOVUS SEALING	U.K.
GARLOCK	USA
KLINGER	USA
LAMONS	USA
MARINE & PETROLEUM	USA
UCA CARBON	USA
LONE STAR	USA

23.10 GASKETS – SPIRAL WOUND

PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
SEVAL SRL	ITALY
TOMBO	JAPAN
FLEXITALLIC	USA
FURON	USA
GARLOCK	USA

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KLINGER	USA
LAMONS	USA
STANDCO	USA
LEADER	USA/SLOVAKIA
LONE STAR	USA

23.11 INSULATION GASKET KIT

PROVETECMAR S.A.	COLOMBIA
SUPERIOR PLUS CONSTRUCTION PRODUCTS	CANADA
AUGE INDUSTRIAL FASTENERS	USA
ADVANCE	USA
FLEXITALLIC	USA
PIKOTEK	USA

23.12 SIMPLE EJECTORS AND EDUCTORS

	AUGE INDUSTRIAL FASTENERS	USA
	ENSIVAL	BELGIUM
*	GEA PROCESS ENGINEERING	GERMANY
*	KORTING	GERMANY
	CST – CSEPEL TECHNO LTD	HUNGARY
*	BOC EDWARDS HICK HARGREAVES	INTERNATIONAL
*	FLUIDEL	ITALY
*	SCAM	ITALY
*	GRAHAM VACUUM PUMPS	U.K.
	VENTURI JET PUMPS	U.K.
	GULF COAST WELDING	USA
	SCHUTTE & KOERTING	USA

23.13 STEAM DESUPERHEATERS

CHROMALOX PRECISION HEAT AND CONTROLS	INTERNATIONAL
AUGE INDUSTRIAL FASTENERS	USA

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	TYCO	INTERNATIONAL
*	SCAM	ITALY
*	VENTURI JET PUMPS	U.K.
*	COPEX VULCAN SPX	U.K.

23.14 ELEVATORS

	AUGE INDUSTRIAL FASTENERS	USA
	KONE	INTERNATIONAL
*	OTIS	INTERNATIONAL
*	SCHINDLER	INTERNATIONAL
*	THYSSEN KRUPP	INTERNATIONAL
*	MASPERO	ITALY
*	ALIMAK HEK	USA

23.15 ELECTRONIC TRANSMITTERS

*	YOKOGAWA	INTERNATIONAL
*	EMERSON	INTERNATIONAL
*	INVENSYS	INTERNATIONAL
*	ABB	INTERNATIONAL
*	HONEYWELL	INTERNATIONAL
	K-TEK	USA
	ENRAF (HONEYWELL)	USA
	ENDRESS + HAUSER	INTERNATIONAL

23.16 INSTRUMENT AND FIBER OPTIC CABLES

	SUMMIT ELECTRIC	USA
	DEKRON	USA
*	DRAKA	FRANCE
*	LEONI KERPEN	GERMANY
*	TRATOS	INTERNATIONAL
*	FUJIKURA	INTERNATIONAL
*	PRYSMIAN	INTERNATIONAL

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*	NEXANS	INTERNATIONAL
*	METALLURGICA BRESCIANA	ITALY
*	CAMUNA CAVI	ITALY
*	CAVICEL	ITALY
*	THERMO ELECTRIC	USA
*	TE WIRE & CABLE	USA

23.17 MANIFOLD BLOCKS – DELETED – SEE SECTION 32.19

23.18 REFRACTORY

PROVETECMAR S.A.	COLOMBIA
AUGE INDUSTRIAL FASTENERS	USA
RESCO CORPORATION	USA
PGI INTERNATIONAL	USA
JT THORPE	USA
BRYANT INDUSTRIAL	USA
SOUTHWEST REFRACTORY	USA

24 GROUP – COKE DRUM

24.1 COKE DRUM

	LARSEN & TUBRO	INDIA
*	G & G	INTERNATIONAL
	ATB	ITALY
*	WALTER TOSTO	ITALY
*	SUMITOMO HEAVY INDUSTRIES	JAPAN
	KNM	MALAYSIA
	IDH	MEXICO
	ILSUNG	S.KOREA
*	BILFAL	SAUDIA ARABIA
	IDESA	SPAIN
	MANGIAROTTI	ITALY

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25 GROUP – TEMPERATURE INSTRUMENTS

25.1 THERMOMETERS (BI-METALLIC) AND WELLS

	PROVETECMAR S.A.	COLOMBIA
	WIKA	INTERNATIONAL
*	ASHCROFT/DRESSER INDUSTRIES	USA
	PARKER, AMETEK US GAUGE	INTERNATIONAL
	TEL-TRU	USA

25.2

THERMOMETERS, FILLED SYSTEM

PROVETECMAR S.A.	COLOMBIA
TEL TRU	USA
TAYLOR INSTRUMENTS	USA
ASHCROFT	USA
U.S. GAUGE & WIKA	USA

25.3 TEMPERATURE TRANSMITTERS

ABB	INTERNATIONAL
ROSEMOUNT	USA
YOKOGAWA	USA
HONEYWELL	USA
ENDRESS + HAUSER	INTERNATIONAL
PHOENIX CONTACT	INTERNATIONAL

25.4 TEMPERATURE-MULTIPOINT TRANSMITTERS

PROVETECMAR S.A.	COLOMBIA
YOKOGAWA	INTERNATIONAL
ABB	INTERNATIONAL
ROSEMOUNT 848	USA
HONEYWELL RHMUX	USA
ENRAF (HONEYWELL)	USA

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ENDRESS + HAUSER

INTERNATIONAL

25.5 RTD'S, THERMOCOUPLES, THERMOWELLS, ASSEMBLIES AND WELLS

DAILY THERMETRICS	USA
SANDELIUS	USA
SMART SENSORS	USA
PARKER, UNITED ELECTRIC	USA / MEXICO
WIKA	INTERNATIONAL
ENDRESS + HAUSER	INTERNATIONAL

25.6 MULTIPOINT SENSOR

WIKA	INTERNATIONAL
DAILY THERMETRICS	USA
GAYESCO	USA
ENRAF (HONEYWELL)	USA
ENDRESS + HAUSER	INTERNATIONAL

25.7 TUBESKIN THERMOCOUPLES

PROVETECMAR S.A.	COLOMBIA
WIKA	INTERNATIONAL
SMART SENSORS	USA
SANDELIUS	USA
DAILY THERMETRICS	USA
ENDRESS + HAUSER	INTERNATIONAL

25.8 TEMPERATURE SWITCHES

PROVETECMAR S.A.	COLOMBIA
UNITED ELECTRIC	USA / MEXICO
SOR	USA
MOORE INDUSTRIES	USA

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ITT NEODYNE
PHOENIX CONTACT

USA
INTERNATIONAL

25.9 THERMOCOUPLE SWITCHES

PROVETECMAR S.A.
IOSELECT
ACROMAG, INC
ACTION
MOORE INDUSTRIES

COLOMBIA
USA
USA
USA
USA

25.10 THERMOCOUPLE EXTENSION CABLE

PROVETECMAR S.A.
ALPHA
EATON (SAMUEL MOORE-DEKERON)
BELDEN
KERPEN

COLOMBIA
USA
USA
USA
GERMANY

26 GROUP – FLOW INSTRUMENTS

26.1 FLOW TRANSMITTERS- (DP AND MULTIVARIABLE TYPE)

YOKOGAWA
ABB
ROSEMOUNT
HONEYWELL
ENDRESS + HAUSER

INTERNATIONAL
INTERNATIONAL
USA
USA
INTERNATIONAL

26.2 VARIABLE AREA FLOW METERS AND ROTAMETERS

PROVETECMAR S.A.
ENDRESS+HAUSER

COLOMBIA
INTERNATIONAL

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*	ABB	INTERNATIONAL
	WALLACE AND TIERNAN	USA
	BROOKS / EMERSON	USA

26.3 ORIFICE PLATES, METER RUNS, ORIFICE FLANGES

PROVETECMAR S.A.	COLOMBIA
FLO-SPEC LTDA	COLOMBIA
EBG FLOW	USA
DANIEL	USA
FLUID TECHNIQUES	USA
AITKEN, INC	USA
TMCO (THE MEASUREMENT COMPANY)	USA
ENDRESS + HAUSER	INTERNATIONAL

26.4 ORIFICE UNIONS

PROVETECMAR S.A.	COLOMBIA
FLOW TECH CORPORATION	USA
PECOL	USA
VICKERY SIMMS, INC SUPPLIERS	USA

26.5 SIGHT FLOW GLASSES

PROVETECMAR S.A.	COLOMBIA
PENBERTHY	USA
FISCHER & PORTER	USA
JERGUSON GAUGE & VALVE	USA
WALLACE & TIERNAN	USA

26.6 POSITIVE DISPLACEMENT METERS

PROVETECMAR S.A.	COLOMBIA
PENBERTHY	USA

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BROOKS / EMERSON USA
FOXBORO USA

26.7 MAGNETIC FLOWMETERS

	ABB	INTERNATIONAL
*	ENDRESS+HAUSER	INTERNATIONAL
	YOKOGAWA	JAPAN
	ROSEMOUNT/EMERSON	USA
	HONEYWELL	USA
	FOXBORO	USA

26.8 TURBINE METERS

	PROVETECMAR S.A.	COLOMBIA
	ABB	INTERNATIONAL
*	ENDRESS+HAUSER	INTERNATIONAL
	DANIEL / EMERSON	USA
	FOXBORO	USA
	BLANCETT (RACINE)	USA / ENGLAND

26.9 VORTEX METERS (INSERTION TYPE)

	PROVETECMAR S.A.	COLOMBIA
	RACINE VORTEX	USA / ENGLAND
*	ABB	INTERNATIONAL
*	YOKOGAWA	JAPAN
	ROSEMOUNT / EMERSON	USA
	ENDRESS + HAUSER	INTERNATIONAL

26.10 VORTEX FLOW METERS (INLINE)

	PROVETECMAR S.A.	COLOMBIA
	RACINE VORTEX	USA / ENGLAND
	YOKOGAWA	INTERNATIONAL

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FOXBORO	INTERNATIONAL
ABB	INTERNATIONAL
ROSEMOUNT / EMERSON	USA
ENDRESS + HAUSER	INTERNATIONAL

26.11 AVERAGING PITOT

FOXBORO	INTERNATIONAL
PRESO (RACINE)	USA / ENGLAND
VERIS	USA
ABB (SENSYBAR)	USA
ENDRESS + HAUSER	INTERNATIONAL
DANIEL / EMERSON	USA

26.12 THERMAL DISPERSION FLOW ELEMENTS AND SWITCHES

PROVETECMAR S.A.	COLOMBIA
FCI	USA
KURZ	USA
MAGNETROL	USA
ENDRESS + HAUSER	INTERNATIONAL

26.13 MASS FLOWMETER CONTROLS

PROVETECMAR S.A.	COLOMBIA
ENDRESS+HAUSER	INTERNATIONAL
* YOKOGAWA	INTERNATIONAL
* ABB	INTERNATIONAL
MICRO MOTION / EMERSON	USA

26.14 FLOW CONTROLLER RECORDERS, LOCAL

PROVETECMAR S.A.	COLOMBIA
OMNI	USA

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FISHER ROC

USA

26.15 FLOW (DIFFERENTIAL) INDICATORS – DELETED SEE SECTION 28.4

26.16 FLOW METERS, PROVERS

PROVETECMAR S.A.

COLOMBIA

BROOKS – WAUGH

USA

DANIELS

USA

SMITH METER SYSTEMS, DIVISION GEOSOURCE, INC

USA

26.17 FLOW TUBES AND VENTURIES

PROVETECMAR S.A.

COLOMBIA

DANIEL

USA

FLOW TECH CORPORATION

USA

FLUIDIC TECHNIQUES, INC

USA

PRESO

USA

26.18 ANEMOMETERS

KURZ

USA

FCI

USA

26.19 ULTRASONIC

FLO-SPEC LTDA

COLOMBIA

GE PANAMETRIC

INTERNATIONAL

DYNASONICS (RACINE)

USA / ENGLAND

INSTROMET

INTERNATIONAL

* ENDRESS+HAUSER

INTERNATIONAL

* SOR

USA

SICK MAIHAK

USA

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26.20 FLOW SWITCHES

PROVETECMAR S.A.	COLOMBIA
BARTON INSTRUMENT, ITT	USA
MAGNETROL	USA
SOR	USA
HANS TURCK	GERMANY

26.21 FLOW METER, WEDGE

PRESO (RACINE)	USA / ENGLAND
ABB (TAYLOR)	INTERNATIONAL
SOR	USA

27 GROUP – LEVEL INSTRUMENTS

27.1 LEVEL (DISP. TYPE) CONTROLLER RECORDERS LOCAL

PROVETECMAR S.A.	COLOMBIA
FLO-SPEC LTDA	COLOMBIA
COSENSE	USA
FISHER	USA
DMC CARTER CHAMBERS	USA

27.2 TRANSMITTERS-LEVEL DISPLACEMENT TYPE

PROVETECMAR S.A.	COLOMBIA
FISHER	USA
DMC CARTER CHAMBERS	USA
MAGNETROL	USA

27.3 SERVO DRIVEN DISPLACER

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PROVETECMAR S.A.	COLOMBIA
ENRAF-NONIUS	USA
ENDRESS + HAUSER	INTERNATIONAL

27.4 CAPACITANCE/RF DEVICES

	PROVETECMAR S.A.	COLOMBIA
	ENDRESS+HAUSER	INTERNATIONAL
*	KROHNE	INTERNATIONAL
	MAGNETROL	USA
	OHMART-VEGA	USA
	K-TEK	USA
	ARJAY ENGINEERING	CANADA

27.5 LEVEL TRANSMITTER – (DP TYPE)

	ABB	INTERNATIONAL
	YOKOGAWA	JAPAN
	HONEYWELL	USA
	ROSEMOUNT	USA
	ENDRESS + HAUSER	INTERNATIONAL

27.6 GUIDED WAVE RADAR LEVEL TRANSMITTER

	ENDRESS + HAUSER	INTERNATIONAL
	MAGNETROL ECLIPSE	USA
	ROSEMOUNT	USA
	K-TEK	USA
△	AGAR	USA

27.7 RADAR LEVEL TRANSMITTER (NON-CONTACTING TYPE)

MAGNETROL ECLIPSE	USA
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ROSEMOUNT	USA
ENRAF (HONEYWELL)	USA
K-TEK	USA
ENDRESS + HAUSER	INTERNATIONAL

27.8 GAUGE GLASSES

PROVETECMAR S.A.	COLOMBIA
JERGUSON	USA
PENBERTHY	USA
K-TEK	USA

27.9 LEVEL GAUGES, STEAM DRUM

PROVETECMAR S.A.	COLOMBIA
ENDRESS + HAUSER	INTERNATIONAL
JERGUSON/CLARK RELIANCE	INTERNATIONAL
* PENBERTHY c/o TYCO	INTERNATIONAL
K-TEK	USA

27.10 LEVEL INDICATORS, CAPACITANCE

PROVETECMAR S.A.	COLOMBIA
MES- MITSUI ENG. & SHIPBUILDING CO. LTD.	JAPAN
EMERSON PROCESS CONTROL	USA
TYCO	INTERNATIONAL
ENDRESS + HAUSER	INTERNATIONAL
DREXELBROOK ENGINEERING COMPANY	USA
FISHER	USA
ENDRESS + HAUSER	INTERNATIONAL

27.11 LEVEL INDICATORS, FLOAT AND TYPE

PROVETECMAR S.A.	COLOMBIA
ROSEMOUNT / EMERSON	USA

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ENDRESS + HAUSER	INTERNATIONAL
GPE CONTROLS (SHAND & JURS)	USA
VAREC DIVISION, EMERSON ELECTRIC COMPANY	USA
ENDRESS + HAUSER	INTERNATIONAL

27.12 LEVEL INDICATORS (MAGNETIC)

ENDRESS + HAUSER	INTERNATIONAL
MAGNETROL/ORION	USA
MAGTEK	USA
PENBERTHY	USA
K-TEK	USA

27.13 LEVEL INDICATORS, RADIO ACTIVE AND NUCLEAR (NEUTRON BACKSCATTER)

ENDRESS + HAUSER	INTERNATIONAL
OHMART-VEGA	USA
TEXAS NUCLEAR	USA
TN TECHNOLOGIES (KAY-RAY)	USA
RONAN MEASUREMENT	USA

27.14 LEVEL INDICATORS, RADIO ACTIVE AND NUCLEAR (GAMMA TYPE)

ENDRESS + HAUSER	INTERNATIONAL
OHMART-VEGA	USA
TEXAS NUCLEAR	USA
TN TECHNOLOGIES (KAY-RAY)	USA
RONAN MEASUREMENT	USA
ENDRESS + HAUSER	INTERNATIONAL
△ TRACERCO	USA

27.15 LEVEL INDICATORS, ULTRA-SONIC

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ENDRESS + HAUSER	INTERNATIONAL
PANAMETRICS	USA
MAGNETROL	USA
SOR	USA
K-TEK	USA
ENDRESS + HAUSER	INTERNATIONAL

27.16 TANK LEVEL GAUGES FLOAT (SERVO TYPE)

ENDRESS + HAUSER	INTERNATIONAL
NEWNET S.A.	COLOMBIA
ENRAF NONIUS	USA
VAREC DIVISION, EMERSON COMPANY	USA
ENDRESS + HAUSER	INTERNATIONAL

27.17 SOLIDS

PROVETECMAR S.A.	COLOMBIA
BINDICATOR COMPANY	USA
E & H TUNING FORK	USA
OHMART-VEGA	USA
ENDRESS + HAUSER	INTERNATIONAL

27.18 SWITCHES, LEVEL CAPACITANCE

ENDRESS + HAUSER	INTERNATIONAL
NEWNET S.A.	COLOMBIA
COSENSE	USA
MAGNETROL	INTERNATIONAL
* SOR	USA
* K-TEK	USA
ENDRESS + HAUSER	INTERNATIONAL

27.19 SWITCHES, LEVEL DIAPHRAGM

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ENDRESS + HAUSER	INTERNATIONAL
BINDICATOR COMPANY	USA
DWYER	USA
K-TEK	USA

27.20 SWITCHES, LEVEL FLOAT

PROVETECMAR S.A.	COLOMBIA
ENDRESS + HAUSER	INTERNATIONAL
MAGNETROL INTERNATIONAL	INTERNATIONAL
SOR	USA
K-TEK	USA
ENDRESS + HAUSER	INTERNATIONAL

27.21 SWITCHES, LEVEL SONIC

ENDRESS + HAUSER	INTERNATIONAL
PANAMETRICS	USA
MAGNETROL	USA
SOR	USA
ENDRESS + HAUSER	INTERNATIONAL

27.22 SWITCHES, LEVEL, VIBRATING REED

ENDRESS + HAUSER	INTERNATIONAL
AUTOMATION PRODUCTS, INC	USA
MAGNETROL	USA
K-TEK	USA
ENDRESS + HAUSER	INTERNATIONAL

28 GROUP – PRESSURE INSTRUMENTS

28.1 DIFFERENTIAL PRESSURE TRANSMITTERS

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*	ABB YOKOGAWA ROSEMOUNT HONEYWELL ENDRESS + HAUSER	INTERNATIONAL JAPAN USA USA INTERNATIONAL
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28.2 PRESSURE TRANSMITTERS

ABB YOKOGAWA ROSEMOUNT HONEYWELL ENDRESS + HAUSER	INTERNATIONAL JAPAN USA USA INTERNATIONAL
---	---

28.3 PRESSURE GAUGES

PROVETECMAR S.A. U.S.GAUGES WIKA ASHCROFT	COLOMBIA USA USA USA/GE
--	----------------------------------

28.4 PRESSURE INSTRUMENTS DIFFERENTIAL INDICATORS

PROVETECMAR S.A. ASHCROFT BARTON INSTRUMENTS, INC ORANGE RESEARCH	COLOMBIA USA USA USA
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28.5 SPECIALTY GAUGES

PROVETECMAR S.A. 3-D NOSHOK, PERMACAL	COLOMBIA USA USA
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28.6 DRAFT GAUGES

PROVETECMAR S.A.	COLOMBIA
DWYER	USA
ASHCROFT	USA
AMETEK US GAUGE	INTERNATIONAL

28.7 PRESSURE SWITCHES

PROVETECMAR S.A.	COLOMBIA
UNITED ELECTRIC	USA / MEXICO
* SOR	INTERNATIONAL
ASHCROFT	USA
NEODYNE	USA

29 GROUP – PANEL MOUNTED INSTRUMENTS

29.1 PURGE SYSTEMS

PEPPERL & FUCHS (BEBCO)	INTERNATIONAL
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29.2 ALARM AMMUNCIATORS

CROUSE-HINDS	USA
FEDERAL SIGNAL	USA

29.3 TERMINAL STRIPS

PHOENIX CONTACT	USA
WEID MUELLER	USA
ALLEN BRADLEY	USA

29.4 BARRIERS

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MTL	USA
PEPPERAL & FUCHS	USA
ENDRESS + HAUSER	INTERNATIONAL
PHOENIX CONTACT	INTERNATIONAL
HANS TURCK	GERMANY

29.5 JUNCTION BOXES

TECNA	COLOMBIA
HOFFMAN	USA
ELECTRO-MATE	USA
HAMMOND	USA
RITTAL	USA

30 GROUP – ANALYZERS

30.1 ANALYZER HOUSE

SIEMENS	USA
CEMTEK	USA
ABB	USA

30.2

ANALYZER OPACITY

LEAR SIEGLER, INC	USA
ROSEMOUNT	USA
ABB	USA
SICK MAIHAK	USA

30.3 ANALYZER OXYGEN

BAR-TECH	AUSTRIALIA
YOKOGAWA	JAPAN
AMETEK	USA
ROSEMOUNT	USA

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ABB USA
SERVOMEX USA

30.4 AREA MONITORS – H2S, LEL AND FIRE

PROVETECMAR S.A. COLOMBIA
MSA USA
GENERAL MONITORS USA

30.5 MAGNETIC RESONANCE

INNENSYS-FOXBORO USA

30.6 O2 SENSORS/TRANSMITTERS

PROVETECMAR S.A. COLOMBIA
BAR-TECH AUSTRIALIA
ABB ANALYTICAL USA
ROSEMOUNT USA
THERMOX USA
YOKOGAWA USA
ENDRESS + HAUSER INTERNATIONAL
SERVOMEX USA

30.7 O2 SENSORS/TRANSMITTERS (HECTER PROCESS CONTROL)

PROVETECMAR S.A. COLOMBIA
ENDRESS + HAUSER INTERNATIONAL
YOKOGAWA JAPAN
ROSEMOUNT / EMERSON USA
THERMOX (ZIRCONIUM OXIDE) USA
ABB USA
SERVOMEX USA

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30.8 H2O AND COMBUSTIBLE GAS DETECTORS – ELECTRO CHEMICAL

PROVETECMAR S.A.	COLOMBIA
DETTRONICS	USA
GENERAL MONITOR	USA
DRAGER	USA
ABB	USA

30.9 CONDUCTIVITY/PH

PROVETECMAR S.A.	COLOMBIA
ABB	INTERNATIONAL
FOXBORO	USA
YOKAGAWA AMERICA	USA
ROSEMOUNT / EMERSON	USA
ENDRESS + HAUSER	INTERNATIONAL

30.10 PH

PROVETECMAR S.A.	COLOMBIA
ENDRESS+HAUSER	USA
ROSEMOUNT / EMERSON	USA
HONEYWELL	USA
ABB	USA

30.10 DEW POINT

PROVETECMAR S.A.	COLOMBIA
GE PANAMETRICS	USA
ABB	USA

30.12 H2S/SO2 ANALYZERS

PROVETECMAR S.A.	COLOMBIA
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BAR-TECH	AUSTRIA
AMETEK / WESTERN RESEARCH	USA
ABB ANALYTICAL	USA
SERVOMEX	USA
SICK MAIHAK	USA

30.13 CONTINUOUS EMISSIONS MONITORS

PROVETECMAR S.A.	COLOMBIA
BAR-TECH	AUSTRIA
SEIMENS / APPLIED AUTOMATION	USA
ABB AND H&B	USA
AMETEK	USA
SERVOMEX	USA
SICK MAIHAK	USA

30.14 GC ANALYZERS – DELETED – SEE SECTION 30.18

30.15 NOX

PROVETECMAR S.A.	COLOMBIA
ABB ANALYTICAL	USA
SERVOMEX	USA
SICK MAIHAK	USA

30.16 TAIL GAS ANALYZER

PROVETECMAR S.A.	COLOMBIA
AMETEK	USA
ABB	USA

30.17 DIAPHRAGM SEALS

PROVETECMAR S.A.	COLOMBIA
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AMETEK/MANSFIELD & GREEN DIVISION	USA
EMERSON	USA
DRESSER INDUSTRIES, INC. VALVE & INSTRUMENT DIVISION	USA
WIKA	USA

30.18 ANALYSER – GAS CHROMATOGRAPHS

	PROVETECMAR S.A.	COLOMBIA
	ROSEMOUNT / EMERSON	USA
*	ABB	INTERNATIONAL
*	SIEMENS / APPLIED AUTOMATION	INTERNATIONAL
*	YOKOGAWA	INTERNATIONAL
*	INVENSYS/FOXBORO	INTERNATIONAL
*	HAMILTON SUNDSTRAND	USA

30.19 ANALYSER – INFRARED (CO-CO2-SO2-ETC.), THERMAL CONDUCTIVITY, H2

	PROVETECMAR S.A.	COLOMBIA
	ABB	INTERNATIONAL
	SIEMENS	INTRNATIONAL
	AMETEK	INTERNATIONAL
*	SERVOMEX	USA
	SICK MAIHAK	USA

30.20 DISSOLVED OXYGEN

	PROVETECMAR S.A.	COLOMBIA
	ABB	INTERNATIONAL
	HACH	USA
	YOKOGAWA	JAPAN

30.21 COLOR

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PROVETECMAR S.A.	COLOMBIA
OPTICAL SOLUTIONS	USA
OPTEK	USA
PETROSPEC	PHILIPINES
KEMTRAK	SWEDEN

30.22 FLASH POINT

PROVETECMAR S.A.	COLOMBIA
ABB	INTERNATIONAL
AMETEK	INTERNATIONAL
BARTEC BENKE	GERMANY
PRECISION SCIENTIFIC	USA

30.23 FREEZE POINT

PROVETECMAR S.A.	COLOMBIA
ABB	INTERNATIONAL
HACH	USA
BARTEC BENKE	USA

30.24 FLUORIDE ION

PROVETECMAR S.A.	COLOMBIA
HACH	USA
GALVANIC APPLIED SCIENCES	USA

30.25 SULFUR

PROVETECMAR S.A.	COLOMBIA
GE SENSING	INTERNATIONAL
EMERSON	INTERNATIONAL
HACH	USA
THERMO-SOLA	USA

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30.26 WOBBE INDEX

PROVETECMAR S.A.	COLOMBIA
GALVANIC APPLIED SCIENCES	USA
ABB	INTERNATIONAL
THERMO-SOLA	
COSA	USA

30.27 OIL IN WATER

PROVETECMAR S.A.	COLOMBIA
TURNER DESIGNS	USA
ARJAY ENGINEERING	CANADA
HACH	USA
ABB	INTERNATIONAL
COSA	USA
AMETEK	INTERNATIONAL
ARJAY	CANADA
TURNER DESIGNS	USA

30.28 H2 PURITY

PROVETECMAR S.A.	COLOMBIA
EMERSON	INTERNATIONAL
SIEMENS	INTERNATIONAL
GE SENSING	INTERNATIONAL
ABB	INTERNATIONAL
AMETEK	INTERNATIONAL

30.29 DENSITY

PROVETECMAR S.A.	COLOMBIA
ABB	INTERNATIONAL
COSA	USA

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SERVOMEX	INTERNATIONAL
MICROMOTION	USA
EMERSON	INTERNATIONAL

30.30 TOC

PROVETECMAR S.A.	COLOMBIA
SIEMENS	INTERNATIONAL
ABB	INTERNATIONAL
GE SENSING	INTERNATIONAL
ABB	INTERNATIONAL
HACH	USA

31 GROUP – CONTROL SYSTEMS

31.1 PROCESS CONTROL SYSTEMS

FOXBORO – I/A	INTERNATIONAL
HONEYWELL-EXPERION	INTERNATIONAL

31.2 CONTROLLER AND RECORDER SYSTEMS

FOXBORO	USA
HONEYWELL	USA
YOKOGAWA	USA
ENDRESS + HAUSER	INTERNATIONAL

31.3 NETWORKING AND COMMUNICATION COMPONENTS

CISCO	USA
DELL	USA
SIXNET	USA

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HIRSCHMAN	USA
AVOCENT	USA
APC	USA
PANDUIT	USA
AVAYA	USA
CORNING	USA
PHOENIX CONTACT	INTERNATIONAL

31.4 SECURITY AND SURVEILLANCE

BOSCH	INTERNATIONAL
GE	INTERNATIONAL
PELCO	USA
AIPHONE	USA
DSX	USA
HID	USA
HONEYWELL	USA
SONY	USA
VALCOM	USA

31.5 PROGRAMMABLE CONTROLLERS

TRICONEX	USA
ALLEN BRADLEY – CONTROL LOGIX	USA
ENDRESS + HAUSER	INTERNATIONAL
PHOENIX CONTACT	INTERNATIONAL

31.6 ELECTRONIC OVER SPEED PROTECTION

PROVETECMAR S.A.	COLOMBIA
GUARDIAN, COMPRESSOR CONTROLS CORPORATION	USA
WGC (WOODWARD GOVERNON COMPANY)	USA

31.7 VIBRATION MONITORING SYSTEMS

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BENTLEY NEVADA

USA

31.8 COMPRESSOR ANTI-SURGE AND CAPACITY CONTROL

COMPRESSOR CONTROLS CORP
INVENSYS-TRICONEX

USA
USA

31.9 SINGLE LOOP PNEUMATIC CONTROLLERS

FISHER
FOXBORO

USA
USA

31.10 SINGLE LOOP ELECTRONIC CONTROLLERS

YOKOGAWA
MOORE PRODUCTS
HONEYWELL

JAPAN
USA
USA

31.11 LOCAL HMIS

RED LION
ALLEN BRADLEY-PANELVIEW
ENDRESS + HAUSER
PHOENIX CONTACT

INTERNATIONAL
USA
INTERNATIONAL
INTERNATIONAL

31.12 SIS

TRICONEX

USA

31.13 SIGNAL ISOLATORS/CONVERTERS, ELECTRONIC

MOORE INDUSTRIES

USA

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ACTION INSTRUMENTS	USA
PHOENIX CONTACT	INTERNATIONAL
IOSELECT	USA

32 GROUP – MISCELLANEOUS INSTRUMENTS

32.1 COMBUSTION MONITORS (FIRED HEATERS)

HONEYWELL	USA
IRIS	USA
FIREYE	USA
GENERAL MONITORS	USA

32.2 FILTERS

PROVETECMAR S.A.	COLOMBIA
US FILTER	INTERNATIONAL
* FILTERS	ITALY
BALSTON	USA

32.3 DIAPHRAGM SEALS – DELETED SEE SECTION 30.17

32.4 FIRE AND FLAME DETECTORS

PROVETECMAR S.A.	COLOMBIA
POWERTROL	USA
E2T	USA

32.5 UV AND IR

FIREYE	USA
IRIS	USA
GENERAL MONITORS	USA

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32.6 SULPHUR REACTOR

IRIS USA

32.7 TANK BLANKETING

PROVETECMAR S.A. COLOMBIA
SUPERIOR PLUS CONSTRUCTION PRODUCTS CANADA
PROTECTO-SEAL USA
FISHER USA
ANDERSON GREENWOOD USA

32.8 TURBINE GOVERNORS

PROVETECMAR S.A. COLOMBIA
TRISEN USA
WOODWARD USA

32.9 FLARE PILOT AND SMOKE DETECTORS

PROVETECMAR S.A. COLOMBIA
POWERTROL USA
JOHN ZINK USA

32.10 REMOTE SEALS CALIBRATION RINGS

PROVETECMAR S.A. COLOMBIA
ROSEMOUNT PIC USA
RJ GLOBAL USA

32.11 TUBING BUNDLES

PROVETECMAR S.A. COLOMBIA
PARKER USA
SYNFLEX USA

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OBRIEN

USA

32.12 SPEED TRANSMITTERS

PROVETECMAR S.A.
AIRPAX-ELECTRONIC
DYNALCO

COLOMBIA
USA
USA

32.13 TRANSMISSION CABLE, ELECTRONIC **DELETED – COMBINED WITH SECTION 23.16**

32.14 TUBING-MULTI-TUBE BUNDLES, ETC.

PROVETECMAR S.A.
PARKER MULTI-TUBE
O'BRIEN
EATON (SAMUEL MOORE-DEKERON)

COLOMBIA
USA
USA
USA

32.15 TUBING FITTINGS

HOKE
SWAGELOK
PARKER

INTERNATIONAL
USA
USA

32.16 MOTION SWITCHES

PROVETECMAR S.A.
ALLEN BRADLEY COMPANY
ROBERTSHAW CONTROLS COMPANY
SQUARE D COMPANY
HANS TURCK

COLOMBIA
USA
USA
USA
GERMANY

32.17 SPEED SWITCHES

PROVETECMAR S.A.

COLOMBIA

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AIRPAX-ELECTRONIC	USA
DYNALCO	USA

32.18 VIBRATION SWITCHES

BENTLEY NEVADA	USA
K-TEK	USA
METRIX	USA

32.19 INSTRUMENT VALVE MANIFOLDS

*	TYCO/KEYSTONE	INTERNATIONAL
*	OLIVER	INTERNATIONAL
*	PARKER	INTERNATIONAL
*	SWAGELOK	INTERNATIONAL
*	HY LOCK	INTERNATIONAL
	ANDERSON GREENWOOD	USA
	PARKER	INTERNATIONAL

32.20 INSTRUMENT ENCLOSURES

PROVETECMAR S.A.	COLOMBIA
INTERTEC	INTERNATIONAL
OBRIEN	USA
CELLEX	USA

32.21 OIL MIST SYSTEMS

PROVETECMAR S.A.	COLOMBIA
ALEMITE	USA
LUBRICATION SYSTEMS COMPANY (SISTEMAS CENTRALES DE LUBRICACION)	INTERNATIONAL
T.F. HUDGINS, INC.	USA

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33 GROUP – VESSELS, TOWERS, DRUMS, REACTORS, TANKS

33.1 REACTORS

	PROVETECMAR S.A.	COLOMBIA
	ILSUNG	S. KOREA
	DISENOS Y MONTAJES INDUSTRIALES LTDA	COLOMBIA
*	G & G	BELGIUM
*	DEGGENDORFER WERFT	GERMANY
*	LEFFER	GERMANY
*	GODREJ & BOYCE	INDIA
*	LARSEN & TOUBRO	INDIA
	KNM PROCESS SYSTEM SDN	INTERNATIONAL
*	ATB RIVA CALZONI	ITALY
*	BELLELI ENERGY CPE	ITALY
*	BREMBANA	ITALY
*	GE NUOVO PIGNONE	ITALY
*	MANGIAROTTI	ITALY
*	RESTA	ITALY
*	ROLLE	ITALY
*	VRV	ITALY
*	WALTER TOSTO	ITALY
*	SICES	ITALY/POLAND
*	HITACHI ZOSEN	JAPAN
*	IHI	JAPAN
*	JAPAN STEEL WORKS	JAPAN
*	KOBE	JAPAN
*	DOOSAN	S.KOREA
*	FELGUERA CALDARERIA PESADA	SPAIN
*	IDESA	SPAIN
*	SWARTZ/HAUTMONT	SPAIN
	NINGBO TIANYI (SINOPEC OWNED)	CHINA
	SINOPEC NANJING (SINOPEC OWNED)	CHINA
	(JIANGSU SUNPOWER)	CHINA

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(FUSHUN MECHANICAL)

CHINA

33.2 COLUMNS & VESSELS

	PROVETECMAR S.A.	COLOMBIA
	ILSUNG	S. KOREA
	PREMAC S.A.	ITAGUI
	DISENOS Y MONTAJES INDUSTRIALES LTDA	COLOMBIA
*	BERTSCH	AUS
*	ELLIMETAL	BELGIUM
*	FOURE LEGADEC	FRANCE
*	CMP ARLES	FRANCE
*	IAG	GERMANY
*	MAG	GERMANY
*	DAEKYUNG	INDIA
	WALTER TOSTO	ITALY
*	CCM	ITALY
*	GRANZIERO	ITALY
*	IMS SCARDELLATO	ITALY
*	LA TOSCANA IMPIANTI	ITALY
*	NICOLA & ALBIA	ITALY
*	OFFICINE MARALDI BERTINORO	ITALY
*	OMSA	ITALY
*	SIRZ	ITALY
*	SWECOMEX	MEX
	NINGBO TIANYI (SINOPEC OWNED)	CHINA
	SINOPEC NANJING (SINOPEC OWNED)	CHINA
	(JIANGSU SUNPOWER)	CHINA
	(FUSHUN MECHANICAL)	CHINA
	MANGIAROTTI	ITALY

33.3 TRAYS AND INTERNALS FOR TOWERS AND REACTORS

PROVETECMAR S.A.

COLOMBIA

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	BELLELI ENERGY CPE SRL	ITALY
	DISENOS Y MONTAJES INDUSTRIALES LTDA	COLOMBIA
*	UOP	BELGIUM
*	SULZER CHEMTECH	GERMANY
*	BARETTI	ITALY
*	COSTACURTA	ITALY
*	KOCH/GLITSCH	USA/ITALY/FRANCE

33.4 INTERNAL FOR COALESCER

	PROVETECMAR S.A.	COLOMBIA
	SULZER CHEMTECH	USA
	DISENOS Y MONTAJES INDUSTRIALES LTDA	COLOMBIA
*	CMP ARLES	FRANCE
*	AUBERT	FRANCE
*	COSTACURTA	ITALY
*	KOCH/GLITSCH	USA/ITALY/FRANCE

33.5 TANKS

	PROVETECMAR S.A.	COLOMBIA
	INSERV	USA
	MATRIX SERVICE	USA
	CB&I (STEEL PLATE STRUCTURES)	USA
	TANKO S.P.A.	ITALY
	MARALDI	ITALY
	WALTER TOSTO S.P.A.	ITALY
	TERMOTECNICA COINDUSTRIAL S.A.	COLOMBIA
	DISENOS Y MONTAJES INDUSTRIALES LTDA	COLOMBIA
*	G&G / GELDOFF	BELGIUM
*	ENTREPOSE	BELGIUM
*	TISSOT	FRANCE
*	CBI	INTERNATIONAL
*	KNM	INTERNATIONAL
*	PARESA	ITALY

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*	TANKO	ITALY
*	MARALDI	ITALY
*	BELLELI ENERGY	UAE
	NINGBO TIANYI (SINOPEC OWNED)	CHINA
	SINOPEC NANJING (SINOPEC OWNED)	CHINA
	(JIANGSU SUNPOWER)	CHINA
	(FUSHUN MECHANICAL)	CHINA

33.6 REFORMER FABRICATION

PROVETECMAR S.A.	COLOMBIA
DISENOS Y MONTAJES INDUSTRIALES LTDA	COLOMBIA
INSERVE, INTEGRATED SERVICES COMPANY	USA
BRAZOS PIPE & STEEL FABRICATORS, INC	USA
EXPRESS METAL FABRICATORS, INC	USA

34 GROUP – PACKAGED PROCESS UNITS

34.1 BIOLOGICAL AERATION SYSTEM

	SULZER CHEMTECH	GERMANY
*	SIEMENS	EU
*	GE-DEGREMONT	INTERNATIONAL
*	VEOLIA	INTERNATIONAL

34.2 CLARIFIERS AND THICKENERS

*	SIEMENS	EU
*	BEAUDREY	FRANCE
*	GE-DEGREMONT	INTERNATIONAL
*	VEOLIA	INTERNATIONAL
*	ARTES-BONO	ITALY
*	VENEAGUA	

34.3 FLOTATION UNITS

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*	SIEMENS	EU
*	BEAUDREY	FRANCE
*	GE-DEGREMONT	INTERNATIONAL
*	VEOLIA	INTERNATIONAL
*	ARTES-BONO	ITALY
*	VENEAGUA	VENEZUELA

34.4 SLUDGE DEWATERING

*	SIEMENS	EU
*	BEAUDREY	FRANCE
*	GE-DEGREMONT	INTERNATIONAL
*	VEOLIA	INTERNATIONAL
*	ARTES-BONO	ITALY
*	VENEAGUA	VENEZUELA

34.5 GAS DRYERS

*	KVAERNER PROCESS SYSTEM	FRANCE
*	PETRECO INTERNATIONAL	INTERNATIONAL / FRANCE
*	PROSERNAT IFP GROUP TECHNOLOGIES	INTERNATIONAL / FRANCE
*	IMPIANTI SISTEMA GEL (ISG)	ITALY
*	PREMABERGO	ITALY
*	SIRTEC NIGI	ITALY
*	HOWE BAKER ENGINEERS	USA

34.6 DESALTER

*	PROSERNAT	FRANCE
*	TISSOT	FRANCE
*	MALONEY INDIA.	INTERNATIONAL
*	PETRECO	ITALY
*	AXSUHOWMAR	U.K.

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34.7 ASH PACKING UNIT

*	VOLLENDEN-WERK	GERMANY
*	LIBRAWERKE	GERMANY
*	SCHUTTE	GERMANY
*	SCHMID AUTOMATION	GERMANY
*	VIA ENGINEERING	SWITZERLAND

34.8 AIR SEPARATION UNIT

*	AIR LIQUIDE	FRANCE
*	PRAX-AIR	GERMANY
*	LINDE	GERMANY
*	MESSER GRIESHEIM	GERMANY
*	NIPPON SANSEI	JAPAN
*	AIR PRODUCTS	USA

34.9 GASIFICATION REACTOR BURNER

PROCESSOR LICENSER BIDDER	INTERNATIONAL
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34.10 AUXILIARY BURNER

34.11 COKE CONVEYING SYSTEM

*	FAM	GERMANY
*	KOCH TRANSPORTTECHNIK	GERMANY
*	SCHADE	GERMANY
*	BUHLER	SWITZERLAND
*	REDLER	U.K.

34.12 FILTER PRESS UNIT/EJECTOR

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*	ISHIGAKI	GERMANY
*	ANDRITZ	GERMANY
*	PASSAVANT ROEDIGER	GERMANY
*	DM-DEHYDRAT	SWITZERLAND

34.13 CLAUS FURNACE AND BURNER

*	LBE FEUERUNGSTECHNIK	GERMANY
*	LURGI	GERMANY
*	ITAS	GERMANY/ITALY
*	TP KTI	ITALY
*	JOHN ZINK	LUXEMBOURG

34.14 WATER FILTRATION

*	GE-DEGREMONT	EU
*	DORR OLIVER	EU
*	SIEMENS	EU
*	VEOLIA	INTERNATIONAL
*	ARTES	ITALY
*	TERMOKIMIK	ITALY
*	WTD	ITALY

34.15 SPENT CAUSTIC WET AIR OXIDATION UNIT

*	SIEMENS	EU
*	VEOLIA	INTERNATIONAL
*	MANDRESSI	ITALY
*	GE-DEGREMONT	ITALY

34.16 COOLING TOWER

*	HAMON	BELGIUM
*	ECODYNE LIMITED	CANADA

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*	BALCKE – DUERR GMBH/MARLEY	INTERNATIONAL
*	GEA AKTIENGESELLSCHAFT	INTERNATIONAL
*	HAMON & CIE	INTERNATIONAL
*	METITO	INTERNATIONAL
*	BOLDROCCHI SRL	ITALY
*	HAMON RESEARCH COTTREL ITALIA SPA	ITALY
*	ILMED IMPIANTI SRL	ITALY
*	SPIG	ITALY
*	SPX COOLING TECHNOLOGIES	ITALY
*	MARLEY COOLING TOWERS USA	USA
*	PSYCHROMETRIC SYSTEM INC. - PSI	USA

34.17 PSA

*	PROSERMAT	FRANCE
*	LINDE	GERMANY
*	PETRECO	INTERNATIONAL
*	SIIRTEC NIGI	ITALY
*	DELTA ENG.	ITALY
*	AIR PRODUCT	U.K.
*	UOP	USA
*	MERICHEM	USA

34.18 TOP UNHEADING SYSTEM

*	ZIMMERMAN & JANSEN	GERMANY
*	FOSTER WHEELER	USA
*	HAHN & CLAY	USA
*	VALVE SYSTEM (DELTA VALVE)	USA / CANADA

34.19 BOTTOM UNHEADING SYSTEM

*	ZIMMERMAN & JANSEN	GERMANY
*	VALVE SYSTEM (DELTA VALVE)	USA / CANADA

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34.20 HYDRAULIC DECOKING PACKAGE

*	RUHRPUMPEN	GERMANY
*	FLOWSERVE	INTERNATIONAL
	VALVE SYSTEM (DELTA VALVE)	USA /CANADA

35 GROUP – INSTRUMENTS & CONTROLS

35.1 MMS

	BENTLEY NEVADA	INTERNATIONAL
*	BRUEL & KIAER	INTERNATIONAL
*	EMERSON	INTERNATIONAL

35.2 EMERGENCY SHUTDOWN SYSTEM

	EMERSON	INTERNATIONAL
*	INVENSYS/FOXBORO	INTERNATIONAL
*	HONEYWELL	INTERNATIONAL
*	YOKOGAWA	INTERNATIONAL
*	ABB	INTERNATIONAL
*	SIEMENS	INTERNATIONAL
*	ICS-TRIPLEX / ROCKWELL AUTOMATION	INTERNATIONAL
*	HIMA	INTERNATIONAL

35.3 TANK GAUGING SYSTEM

	ENRAF / TGI	INTERNATIONAL
*	EMERSON / SAAB	INTERNATIONAL
*	ENDRESS & HAUSER	INTERNATIONAL
*	KROHNE	INTERNATIONAL

36 GROUP - DUCTWORK

36.1 REFRACTORY LINED

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△	HEATERS SPECIALIST LLC (HSI)	USA
△	CONTINENTAL FABRICATORS	USA
△	TAPCOENPRO	USA
△	DELTAK	USA

37 GROUP – SAMPLE STATIONS

37.1 SAMPLE STATIONS

△	TEXAS SAMPLING	USA
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