

# LEADING LATIN-AMERICAN COMPANY IN STEEL CONSTRUCTION, ENERGY, PRESSURE VESSELS, HEAT EXCHANGERS, SKIDS

PDVSA, TOYO, CHIYODA, JGC, INELECTRA Visit to Our Shop Nov 3, 2011

Multicentro Empresarial del Este, Av Fco de Miranda, Torre Miranda, Ofic 86A, Chacao, Caracas, Venezuela. Phone++(58-212) 2639157, 2669423, Fax:+58-212-2637175 emilio01@vandam.com.ve Emilio Van Dam



# INDUSTRIAS METALURGICAS VAN DAM



The La Victoria Plant is built on a parcel of 181.690 sq. meters; the industrial sheds cover 34.685 sq. meters. This roofed area contains the most modern and sophisticated machinery and equipment.



## VAN DAM PLANT & LOCATION

- Shop is 110 Km from Puerto Cabello Port
- Annual production capacity:
- 15,000 tonnes of steel structures
  -600,000 productive man-hours

Staff :

- -250 ~ 400 persons
- Contracts:

## - South, Central America & the Caribbean



VAN DAM GROUP

#### Zero Compromise Towards Saft



## SCOPE OF PRODUCTION

Process Equipment, oil, Gas, Chemical, Petro Chemical: API & AWWA Storage tanks, ASME ( "U" & "R") Pressure vessels, Heat Exchangers, Reactors, Distillation towers, Steel structures. Separators, Silos, Solid Handling Systems(Conveyors, Reclaimers, Shiploaders), Storage Tanks

Hydro & Thermo Power Plants: Penstocks, Gates, Viaducts, Bridges, Cofferdams, Boilers, Heaters, Condensers Heat Exchangers, Cranes, Flue Gas Ducts, silos.

Steel Mills Mining: Direct Reduction, reactors, Reformer, furnaces, Reclaimers, Conveyors, Buildings, Gas Tanks, and Bins.

Shipyards, Ports: Floating piers, Barges, Portal cranes, container cranes, Dry dock gates, Bridges, Warehouses.

Public Works: Viaducts, Bridges, Wagons, Platforms, buildings, Hangars, Conveyors, Pre Fabricated Buildings, Warehouses, Commercial Centers.

Cement Plants: Hoppers, Bins, Buildings, platforms, ducts, conveyors, Equipment.

Aluminum Mills: Reduction cells (Potshels), buildings. potshel superstructure, lifting beams, silos, conveyors, dust collection systems.

Paper mills, Breweries, Sugar plants: Buildings, Tanks, pressure vessels, Reactors, conveyors.

#### Zero Compromise Towards Safety



# VAN DAM PRODUCTION FACILITIES

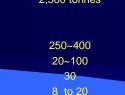
#### LA VICTORIA SHOP

Location Direct access water Site area
Covered fabrication shop
Covered storage area
Warehouse
Painting shot Blasting
Heat treatment
Rolling capacity
Maximum load-out capacity
Maximum Press Brake
Productive personnel
<ul> <li>Fabrication shop</li> </ul>

La Victoria 80 km From Caracas 110 Km at Puerto Cabello 64,000 m<sup>2</sup> 26,000 m<sup>2</sup> 9,000 m<sup>2</sup> 7,000 m<sup>2</sup> Yes 4.5m x 4.5m x 14m 3 m x 42 mm 150 tonnes 2,500 tonnes

- Management / Admin. / Proj.
- Quality control

Erection site



Zero Comorom



We have been doing final assemblies at port, We will develop a yard according to the requirements for the specific construction. The harbor is 11 mts (36') deep

# Final assemblies of Big pieces at port





NEICO



## VAN DAM GROUP Equipment



2,500 Mton Press Brake



Stress Relief Oven 4,5x4.5x14mts



Heavy Duty Plate Rollers



**Boring Mill** 



Multi Torch Flame Cutting



**COMPUSTEP Drill CAD/CAM** 



Shot Blasting & Painting



TANAKA OPTICAL PANTOGRAPH



96" Vertical Boring Mill

**CNC 3 AXIS DRILL** 



**CNC Drilling Machines** 



Automatic SAW Beam Welding

VAN DAM GROUP

### <u>Zero Compromise Towards Safet</u>



# ENGINEERING & PROCUREMENT

### Engineering

- SAP 90
- MBP
- ETABS
- CODEWARE/ COMPRESS
- HTRI

### **Multi-discipline services**

- structural buildings
- mechanical
- tanks
- pressure vessels & Skids
- bridges

### Procurement

- World wide basis
- Vendor evaluation
- Purchasing
- Inspection
- Expediting
- Logistics





# Structure & Vessels

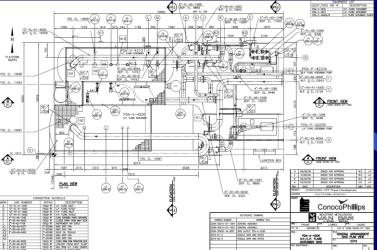


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41	Armado y Soldadura 3do Anilio	21 dias	mi# 01/12/10	lun 20112110			
41	Armar, Control de calidad	Edas	mie 01/12/10	nar 07/12/10			
4	Soldadura / CC	7 dias	mar071210	lun 13/12/10			
43	Descarborado, Esmeríado	5 das	lun 131210	vie 17/12/10	1		
4	Terrihar Soldaduras y Cort Cald	3 das	vie 171210	lun 2011210	1       <mark>11</mark>     1		
6	Armado y Boldadura I <sup>o</sup> Anilio	22 dies	lun 131210	mi# 0601111			
45	Armar, Control de calidad	6 das	lun 131210	s8b 18/12/10			
47	Soldadura / CC	E clas	stb 181210	mar 28/12/10			
48	Descarbonado, Esmeríado	5 clas	mar 28 12 10	vie 31/12/10			
49	Terminar Soldaduras y Cont Cald	3 das	lun 03/01/11	mi8 05 01 11	1       <b>T</b> h		
50	Armado y Boldadura # Anilio	22 dias	mar 281210	mar 18/01/11			
51	Armar, Control de calidad	6 das		kn 03/01/11			
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9	Descarbonado, Esmeríado	5 das	lun 1001/11	vie 140111			
54	Terminar Soldaduras y Cort Cald	3 dias	vie 1401/11		1       <b>T</b> L		
55	Armado y Boldadura & Anilio	22 dies	lun 1001/11	680 29/01/11	l		
55	Armar, Control de calidad	6 das	lun 1001/11				
57	Soldadure / CC	8 das	stb 1501/11	s8b 22/01/11			
58	Descarbonado, Esmeríado	5 das		jue 27/01/11	1		
9	Terrnhar Coldaduras y Cort Cald	3 dies	Jue 27/01/11	sáb 29/01/11	]		
60	Encamble de Cuerpo	3 das		mi# 23/0211	]		
61	Armado y Soldadura de Techo	3 das	vie 2801/11	lun 310111			
8	Tinzar Cuerpo y Techo / CC	3 dies	lun 31/01/11	mit 02/02/11			
8	Cortar y biselar perforado	4 das	me 020211	kn 07/0211	1         1		
64	Nortar Conexiones	4 das	lun 07/02/11	jue 100211	1		

## **Detailed engineering**

- structure
- equipment
- tanks
- pressure vessels
- Aluminum Potshels
  - Coke Handling systems

Heat Exchanger Mechanical & Thermal Design



On large projects Van Dam may co-ordinate with an Engineering Partner

### <u>lork safely to-day and every day</u>





#### CERTIFICATE OF AUTHORIZATION This certificate certifies the named company as authorized to use the indicated symbol of the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the Code symbol and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application Any construction stamped with this symbol shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code. Engineer COMPANY Industrias Metalurgicas Van Dam, C.A. Zona Industrial Soco Via Guacamaya La Victoria, Aragua 2121 Venezuel of Mechanical SCOPE Manufacture of pressure vessels at the above location and field sites controlled by the above location Society AUTHORIZED December 30, 2009 EXPIRES. January 5, 2013 The American CERTIFICATE NUMBER: 28.166 allfa & Calik Vice President Conformity Assessment an Bu

Director, Accreditation and Certification

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CERTIFICATE OF

### Welders Qualifications :

- AWS
- ASME "U" Div 1 & Div 2
- National Board "R"
- ASME Quality System Certified since 1970
- We have reached the 1400 Stamped vessels
- ISO Objective ISO 9000: 2011
- HTRI Heat Transfer Research Inc Since 2006



### VAN DAM GROUP

### Work safely to-day and every day



# NON DESTRUCTIVES TESTS



**Magnetic Test** 



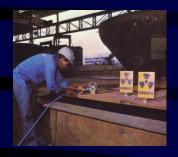
**Ultrasonic Test** 



Hardness Test



**Liquid Penetrants** 



Radiography





Positive Material Identification "PMI", We are able to test Alloy materials and confirm Chemistry Composition

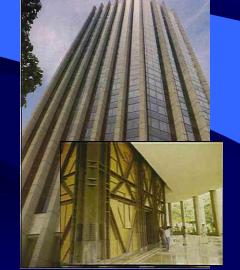
### <u>Nork safely to-day and every day</u>

## BUILDINGS & STRUCTURES











## VAN DAM GROUP

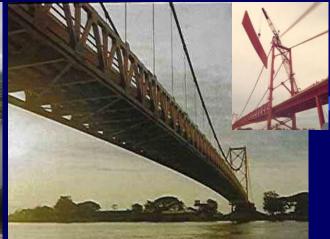
## Safety is our way of life



## BRIDGES



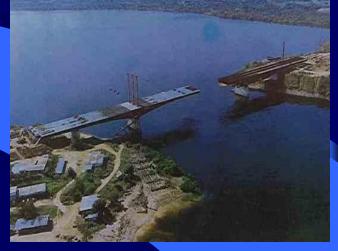




SUSPENDED BRIDGE OVER APURE RIVER VENEZUELA







RAILROAD & HWY BRIDGE OVER CARONI RIVER

#### PEREIRA CABLE STAYED BRIDGE COLOMBIA

### ately is our way of life



## SIGNIFICANT ACHEVEMENTS

PDVSA CRP ABSORTION TOWER L: 55 m (180,5'), OD : 3.7 m (12.1') Weight w/ internals: 270 M Tons Insulation Thickness: 3" covered with Aluminum Sheet. COMPLEJO REFINADOR PARAGUANA

Stripper Column Citgo Lemont 36 m USA





## FLARES, STACKS, HEATERS



Equipments delivered with Castables poured at shop floor



### Stacks 140 Mtons St. Croix English Virgin Islar



Accidents should be reported & investigated



## HEAT EXCHANGERS & AIR COLLERS CLADDED & ALLOY EQUIPMENT

### Very Heavy Vessels Alloyed Carbon Steel + Stainless Steel Overlay SA 387-11 CL2 + CLADDING SA347



"U" Tubes, 2964 Tubesheet Holes. Tubes Inconel 625 (SB 444-1) & Tubesheets SA336 – 304 Forges SA336 F11-CL3





Riser Cone Diam7.2 m, SA347 H S.S

ietv – evervone's full-time io







# SILOS IN CARBON STEEL & STAINLESS STEEL



Duke Fluor Energy 8 Silos for AES Thermoelectrical Plant at Las Mareas Puerto Rico



### VAN DAM GROUP

#### Safety - everyone's full time job

# MINING CEMENT PLANT



**MILL BODY & CLASIFIER** 





VAN DAM GROUP



## SIGNIFICANT ACHEVEMENTS

Aluminium Reduction Cells "Potshells Fabricated for Bechtel – Lavalin Lauralco Quebec Canada









Aluminum Reduction Cells "Potshells Fabricated for CBI / SNC – Lavalin Alusaf South Africa

# MINING COKER HANDLING SYSTEMS





Stack 140 Mtons , with Refractory

**Tubular Galleries** 





**Ducts Plate Work** 



# MINING HOPPERS, CHUTES, CONVEYORS ETC















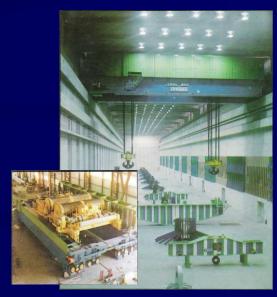
## **FIIDRO- THERMO ELECTRICALS**



Penstocks at Raul Leoni en Guri Dam



THERMO PLANT AES, PUERTO RICO.I



**Overhead crane 750Mt HITACHI Technology** 

**VIRGIN ISLANDS** 



## TANKS

## **TANKS** API-650, 653, 620, 12F, 12D, AWWA







Engineering, Soil Studies, Civil Works, Procurement, Fabrication & Construction



### PROCESS SKIDS 5 SKIDS COROCORO PROJECTO PETROSUCRE (PDVSA /CONOCOPHILLIPS) HEAT EXCHANGER, FUEL GAS, LP / HP SCRUBBER, CRUDE OIL









Pkg #'s	PO	Description of equipment & Tag N°	Origen	of each Pack g	Length	Width	Height	AREA	Vol M3	Total Skid Weight MT
43	4504949816	CPF Fuel Gas Treatment Skid PDA-A-4000	La Victoria Aragua	1	6,90	5,20	4,30	36	131,69	22,84
				1	13,80	6,10	3, <b>50</b>	84,18	294,63	
048	4504949898	CPF Shell and Tube Heat Exchangers skid Tag N* PDA- A 1005/1030 PDA-A-1210 A/B PDA-E- 1040 A/B/C/D	∟a victoria Estado Aragua	1	13,80	6,10	3,60	84,18	303,05	150,00
				1	8,80	4,70	3,80	41,36	157,17	
				1	8,80	4,70	3,50	41,36	144,76	
133	4504950023	CPF Crude Oil Surge Drum & Crude Oil Recycle PDA-A-1300	La Victoria Estado Aragua	1	16,60	4,40	3,40	73,04	248,34	
				1	2,40	2,90		6,96	6,96	54,58
				1	4,27	4,20		17,93	17,93	
55B	4505685135		La Victoria Estado Aragua	1	12,80	6,00	2,80	76,80	215,04	
				1	8,93	2,75	2,97	24,56	72,94	65,28
				1	8,69	2,20	2,36	19,12	45,12	

### VAN DAM GROUP

#### Safety is our way of life



# Worldwide implantations

SOUTH AFRICA



CANADA

SEGURIDAD Y CALIDAD DOS CARAS DE LA MISMA MONEDA



Construction Quality Assurance Hamaca Crude Upgrader Project

#### **Shop Visit Report**

Company	Van Dam
Shop Visit Report	JV004
Date of Visit	20 February 2002
Location	Valencia
Visit team	Steve Hartley, Gustavo Behrens and SQS Resident Inspector, Manuel Barriga

#### Purpose

As follow-up to the Inspector Alignment and as part of the Shop Inspection and Preventive Action Plan a visit was made to the company Van Dam in La Victoria The P.O.'s and Scopes of Work concern 11 off pressure vessels and 16 heat exchangers currently under various stages of fabrication. ( See attached checklist for details of items discussed and documented)

#### **Positive Observations**

Preparation by the SQS Inspector(Manuel Barriga) was noteworthy and reflected in the organisation, filing and retrievability of reference AFC drawings, specifications and supporting documentation. His professional and efficient approach in all aspects was commendable and the Jose visit team members sincerely thank him for his support and cooperation during the visit.

Van Dam QC personnel interviewed were well prepared and knowledgeable of the P.O. Scope, Drawing and Specification and Code requirements. QA/QC Manager Judith Inojosa appeared to be particularly effective and efficient in implementing the requirements of the P.O. Specifications and Pressure Vessel Code.

Organization, filing and retrievability of individual vessel documentation was observed to be excellent. Vessel Code Data books have been prepared and compilation found to be on-going and in accordance with fabrication status.

To date no SQS NCR's had been issued and Van Dam internal NCR's were found to have been effectively issued to identify defective items during receiving inspection.

Van Dam in-house shop floor inspectors were in place and effective.

During the shop walk through and vessel and exchanger inspection clear evidence of good workmanship was observed.

Equipment under fabrication appeared to be free from arc strikes, gouges and temporary attachment welds thereby minimising re-work, additional NDE and schedule impact.

VAN DAM GROUP

Stage inspections were evident and the use of color stickers to identify inspection status was particularly commendable.

Welding Consumable controls appeared to be in place and effective.

Areas of Concern/Action items

No areas of concern were noted during this visit



CBI Constructors S.A. (Pty) Ltd. Reg. No. 50(03330/07 P.O. Box 1395 Secunda 2302 Transwaal South Africa Telex 749238 CBI SE Cable CHIBRIDGE, JOHANNESBURG Tel, (0136) 492433, 492336, 492337, 492348, 492515, 492720, 492293

28 June 1995

Mr. E. Van Dam c/o CBI Secunda

REF:-

CBI - VAN DAM POTSHELLS

#### Dear Emilio,

On behalf of CBI Constructors S.A. (Pty) Ltd, I would like to say that it has been a pleasure to work with you and your men in assembling the 88 "Secunda" Potshells (AP 30"s) for the ALUSAF HILLSIDE SMELTER at Richards Bay.

Highlights of the project, which we should mention, were the achievement of "Prototype" status with your first potshell and demonstrated ability to achieve all critical tolerances with components, some which were initially out of tolerance, thus assisting CBI to recover potentially scrap materials.

You and your team displayed a good knowledge of "distortion control" which conformed to project specifications and a mastery of the AP 30 flatness requirements.

The contribution made by Van Dam to the overall Potshell Project has been truly appreciated. We wish you success with future ventures.

Your sincerely CBI Constructors (Pty) Ltd

J.M. Geeson Facility Manager Secunda D. Weinmann - Houston H. Schurink - Sandton R. O'Neill - Sandton Ops PJE/KD/MRA/RB/LN-Secunda

LAZA

**BECHTEL-LAVALIN** A JOINT VENTURE MONOTRE DAME ST. WEST HIGC 4R8 TELEPHONE: (514) 954-6833 FACSIMILE. (514) 876 1867 Septembor 30, 1991. INDUSTRIAS MIETALURGICAS VAN DAM C.A. AVENUE LOS BUCARES PRADO DE MARIA CAPACAS, VENEZUELA Attention: Mr. Luis Van Dam SUBJECT: Purchase Order 57201 0322-M 0004-AC Fabrication of 265 Pot Shells (Reduction Cells) Aluminaria Lauralco, Inc. Smelter Project Deschambault, Quebec, Canada Bechtel-Lavalin as Agent for Aluminorie Lauralco, Inc., subsidiary of Alumax, hereby confirms that Industries Metalurgicas Van Dam C.A. has successfully completed the fabrication and supply of 205 (201 Shells (Reduction Cells), in accordance with all terms and conditions of the Agreement. This Purchase Order/Agreement amount was for U.S. \$13,018,534.00 and corresponds to the 255 Pot Shells (Reduction Cells) delivered to the Lauralco Jobsite, at Deschambault, Quebec. Industrias Metalurgicas Van Dam C.A. dalivered all Pot Shells (Reduction Cells) in every satisfactory in manner while complying with schedule and quality requirements as set forth by the subject Purchase Order/Agreement. 3 Bechtel-Lavalin as Agent for Aluminerie Lauralco, Inc. would like to take this opportunity to express their appreciation to Industrias Metalurgicas Van Dam C.A. for their continued cooperation throughout the Person and duration of this Agreement. Signed before me, at the City Yours Very Truly of Montreal, in the Province of Quehec, chist, 50 day of September (1991 ers: R. S. Harding Project Manager Countiestione); Oat District of TM:cd



CBI Constructors S.A. (Pty) Ltd. Reg. No. 60/03336/07 CBD One of the CBI Group

Telex 749238 CBI SE Cable CHIBRIDGE, JOHANNESBURG Tel: (0136) 492433, 492335, 492337, 492348, 492515, 492720, 492513 Telefax (0136) 492293

28 June 1995

P.O. Box 1395 Secunda 2302

Transvaal

South Africa

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cc:

Your sincerely \_ CBI Constructors (Pty) Ltd

I.M. Geeson-

Facility Manager Secunda D. Weinmann - Houston H. Schurink - Sandton R. O'Neill - Sandton Ops PJE/KD/MRA/RB/LN-Secunda OCT-06-1999 13:51 FROM R&S CD. CHICAGO, IL-USA

TO 90115822637175



ENGINEERS AND CONTRACTORS

October 6, 1999

Industrias Metalurgicas Van Dam C.A. Sede Administrativa Multicentro Empresarial del Este Edificio Miranda Cucleo A Piso 8 Ofic. 83A Caracas, Venezuela

Attention: Ing. Emilio Van Dam Tel: 011-58-2-265-99-76 Fax: 011-58-2-263-71-75

#### TO WHOM IT MAY CONCERN

This letter is to confirm that INDUSTRIAS METALURGICAS VAN DAM has satisfactorily delivered the steel structure for the conveyor system (conveyors, transfer towers, bridge and miscellaneous steel) for the Caribbean ISPAT Limited DR 3 project.

The complete job was done on time and with the required quality. We will look forward for new projects in the near future.

Sincerely, ROBERTS & SCHAEFER COMPANY

Anant Patel

Manager - Project Management & Administration

сс: RajP, CF-9720 J:00859720316vg 120 SOUTH RIVEMBIDE PLAZA GHIGAGO. ILLINGIS 20508-3996 TELEPHONE: 312-006-7203 PAX: 312-726-2872

VAN DAM GROUP

P.01





INELECTRA

15.223

Caracas, 10 October 1994

MARAVEN Program Management c/o Kellogg Pan American, C.A. Edificio Oficentro Avenida Principal San Luis, El Cafetal Caracas, Venezuela

Mr. Domingo Navas Attn: Project Manager MPMT, Package "D"

> Letter Nº: MWKI/MDC/L-1129 J-6853 Kellogg Project: Maraven Refinery Expansion Project Subject: EPC Offsite & Utilities Package "D" Follow-Up Orientation Visit to VAN DAM.

Dear Mr. Navas:

In accordance with the published "Proactive Vendor Quality Schedule", a follow-up orientation visit was conducted at VAN DAM on the 05 October 1994 by Mr. A. Cárdenas.

The following documentation is attached:

- Entrance/Exit Meeting Attendance Sheet
  - Proactive Quality Follow-Up Review and Performance Assessment

All four (4) Corrective Action Plan Items were resolved.

There is a new issue regarding comments from the ASME Authorized Inspector related to EPC-D provided calculations. Item is being resolved directly by VAN-DAM, but might require EPC-D involvement.

The Overall Supplier Quality Rating was considered at this close-out as "HIGH QUALITY".



FILE 15.22.3 D



HTTACHMENT H

Questions regarding the subject visit should be addressed to the undersigned or Messrs. I. Tribuch/A. Cárdenas.

> Sincerely, KELLOGG PAN AMERICAN, C.A.

Robert A. Reeves Senior Project Manager

AC/IT/ema File: 15.1.4.2./15.22.3

#### Distribution:-

CARACAS	<u>CARDON</u>
R. Reeves/L. Con C. Crewe	rea W. Provost C. Summers
M. Worthington	C. Buimiers
I. Tribuch/A. Cáro	lenas
MPMT-A	МРМТ-В

MPMT-D D. Navas/P.Rees

H. Redpath

MPMT-S

R. Proctor/K. Krummins J. Farry

#### MPMT

V. Scinicariello/O. Gutiérrez N. Penny (Houston) A. Ferrer

cc: "Project Files"

F. Morales

- C. Carrillo (File J-6853/15.0)
- J. Gaedchens (File J-6853-Houston)

J.D. Romero

R. Joseph (File J-6853-Cardón)

VAN DAM GROUP



## Advantages of Van Dam as Module fabricator and as Integrator with TRIMECA





**Proximity:** Workshop is located in Venezuela, close to Puerto Cabello Port and this proximity allow us a prompt delivery and to fabricate big pieces that otherwise could not be transported. Also we can fulfill any necessity of the site in a timely manner

Venezuelan pool of welders and fitters: We have on files a long list of: Fitters, Welders, Helpers, supervisors etc, that can be easily organized to form groups that can be incorporated as specialized man power to the Jobsite. The Central region of the country has a stable pool of workers, far from the volatile and troublesome Labor areas of Jose (Anzoátegui) and Puerto Ordaz.

Joint Ventures with Central Region : As we have expert personnel for project management, expediting and Engineering, we can partner with other local companies, delivering the product with quality and at the right time.

**Puerto Cabello Public Port**: Puerto Cabello is the main Ports in Venezuela. Being so close to Puerto Cabello . Give us the Following Advantages:

- Quick transit of imported goods that will be part of Modules. Vessels stop at the Port from all Countries in a regular manner.
- Close to Dianca an area with Fabrication and Loading Facilities
- As the port is deep (11 mts) & Calm Water it is easy to load barges (that are available in the area)
- Full availability of Rented Cranes, Trucks, Warehouses.
- Easy drive from Caracas to La Victoria & The Port.
- Close to Valencia City (including International AirPort)
- Total availability of Local Construction Equipment
   VAN DAM GROUP

### <u>Safety is our way of life</u>



## THANK YOU











IT WILL BE A PLEASURE TO KNOW YOUR REQUIREMENTS & GIVE YOU OUR BEST SOLUTIONS

emilio01@vandam.com.ve ; vandam.emilio@gmail.com