

TECHINT

Engineering & Construction

WE BELONG TO A GROUP OF COMPANIES WITH THE SAME DNA

Revenues of the six main companies in 2016: **15.2 billion USD**

48,500 permanent employees in 2016

TECHINT
Engineering & Construction

1.3 billion USD
Overall sales
in 2016

 **Tenaris**

1.9 million tons
Shipments of
seamless and welded
steel pipes in 2016

 **Ternium**

9.8 million tons
Shipments of steel
products* in 2016

 **Tecpetrol**

30 million bbl of
oil equivalent
Oil and gas production
in 2016

HUMANITAS

165,000 hospital
admissions in 2016


tenova

841 million USD
Backlog of work
In 2016

TECHINT E&C SUMMARY

- We carry out **EPC projects** and engineering services, construction and EPCM
- We understand the needs of our industrial customers in the **oil & gas, power, mining, infrastructure and steel markets**, providing them with best-fit solutions
- Our organization adds value to our undertakings by drawing on both a **global vision** and a **local presence**
- We have a strong **commitment to the safety** of our people and to the **quality of the delivery**

Los Ramones II Norte Gas Pipeline, Mexico





TenarisBayCity Seamless Pipe Mill, US

A RELIABLE PARTNER IN PROJECT EXECUTION

1.3 billion USD in annual turnover*	+450 pipelines, totaling +70,000 km installed
17,000 employees (permanent and temporary)*	450 O&G plants and units
1.4 million engineering man-hours per year*	+1,000 petrochemical and chemical plants and units
70 years of global experience	+12,000 MW in combined cycle power plants
3,500 projects successfully completed worldwide	+7 million kVA in electrical substations
	+23,000 km of power transmission lines

*31 December 2016 data

VALUE CHAIN CASE STUDY

NORTH AMERICA

- **PESQUERÍA POWER PLANT**

Client: Techgen

Scope of Work: EPC

Combined Cycle power plant with a capacity of 900 MW using three gas and one steam turbines.



PESQUERÍA POWER PLANT

SCOPE OF WORK

- Combined Cycle Power Plant in Pesqueria, Mexico is to be designed for 25 yrs. life cycle. Plant is around 107 Acre, (40 Ha), including future expansion and space for construction. 400kv open air electric substation to be located on site.
- TECHINT is responsible for all the activities associated with **Designing, Procuring, Construction, Start up & Testing.**
- All engineering design activity will be in **TECHINT office in Buenos Aires, Mexico and Mumbai.**

Pesqueria Power plant, Mexico



PESQUERÍA POWER PLANT

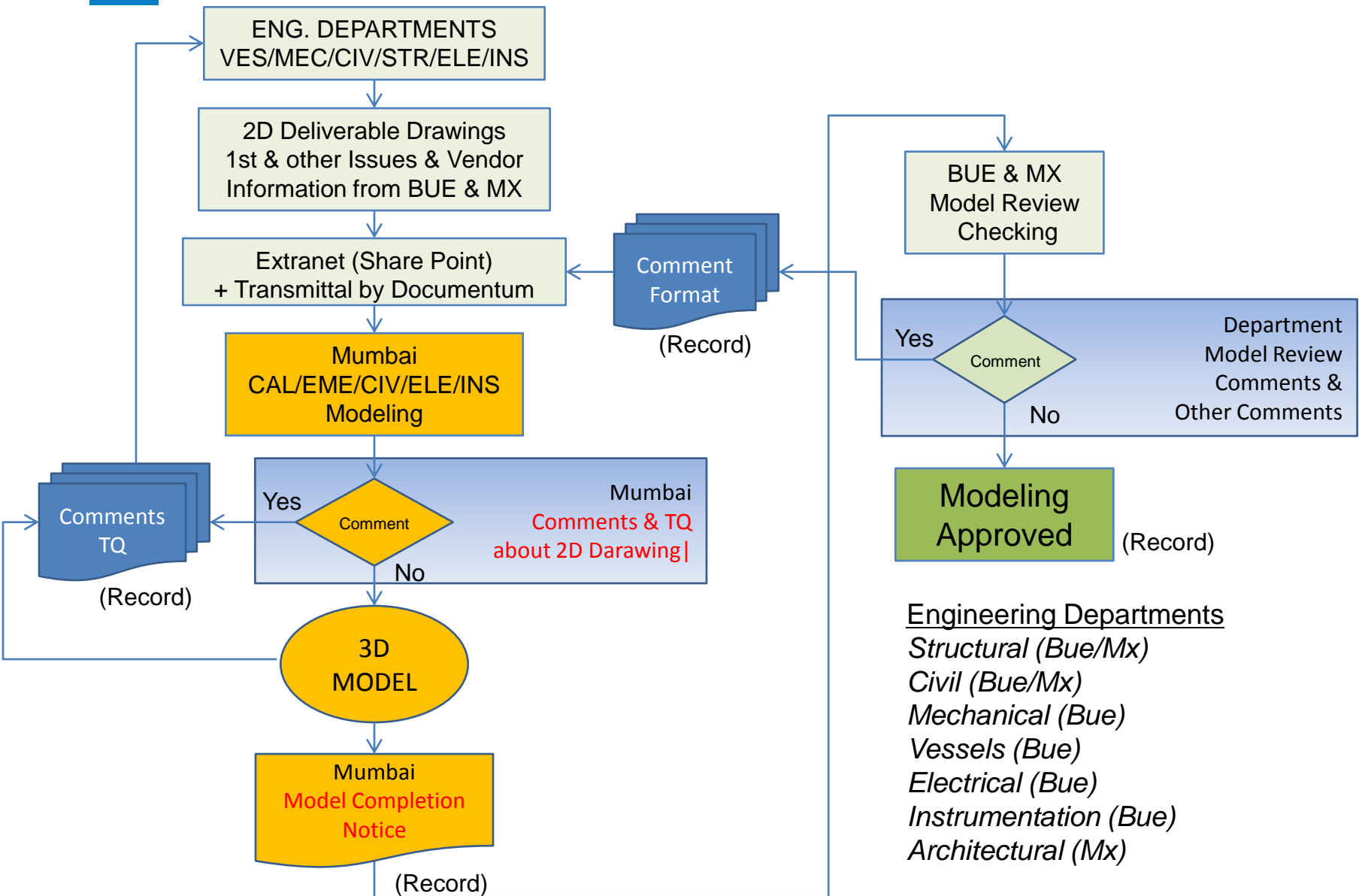
DIVISION OF RESPONSABILITIES / Engineering

- Engineering will be carried out in three branches of Techint Engineering and Construction Company:
 1. **Branch Office Distrito Federal (DF) México**
 2. **Main Office Buenos Aires (Bs As) Argentina**
 3. **Branch office Mumbai India.**
- Split of Work Buenos Aires & DF according to Design Areas:
 1. **Mexico: SE y DCS Communication system, Non Industrial Buildings, rough grading, final grading, Roads, Storm water drainages, Fences, Soil Movement**
 2. **Buenos Aires: Balance of Plant (BOP), Industrial Buildings & Power Island.**
 3. **Mumbai: 3D Modeling, BOM and MTO based on 2D drawing, Charge in SAP.**

Pesqueria Power plant, Mexico



PESQUERÍA POWER PLANT VALUE CHAIN WORKFLOW





Current Project

ENGG CENTER	PLANT DESCRIPTION
Buenos Aires	Detailed Engineering and SP3D Modeling : Fortin De Piedra Gas Treatment Plant
Mexico	Detailed Engineering and SP3D Modeling: Norte III
Buenos Aires	Design: Eramet Lithium Feed & Modeling
Milano	Design: Feed Marghera Levante Power Plant
Mexico	Petalcalco Carbonser Detailed Engineering
Buenos Aires	Genelba Plus: Power Plant Detailed Engineering
Milano	Egypt, Powers Plant West Damietta, South Helwan

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www.techint-engineering.com