



QUALITY FIRST



NGUYEN VINH Co. Ltd



COMPANY PROFILE



## LETTER OF INTRODUCTION

*Nguyen Vinh Company Ltd is a professional company operating in pre-engineered steel structure products & also supplying “ A total solution processed engineered system” for the customers with all – in services: Designing – Production - Installation.*

*Nguyen Vinh Company Ltd is always confident & proud of our capability in order to bring the best solutions to the customers, meeting customised demand with optimal expenses.*

*With professional and devoted engineers, we support & supply free the service of Consulting, Pre-design solutions & Quotation proposal to the customers. Although the projects are conducting in any places, we always support & supply the best solution to you. Contacting with us, you are supported rapidly and free.*

*We commit to build, develop our company with the quality first and the customers's satisfaction in a sole aim.*

*We thank for your attention & do hope to cooperate in long term business*



## \* GENERAL INFORMATION

**Company's name:** Nguyen Vinh Company Ltd  
**Presented by** : Mr.Nguyen Vinh Hoa – Director

**Address:**

- **Factory:**  
Km 3 – Phan Trong Tue- Tam Hiep – Thanh Tri– Ha Noi  
Tel.: (+84-24) 36884416  
Fax: (+ 84-24) 36856406
- **Office:**  
Lot H, Zen A Bld., Gamuda, Tran Phu, Hoang Mai Dist., Ha Noi city, Vietnam  
Tel.: (+84-24) 35134082(3)  
Fax: (+84-24) 35680398

**Email:** [nvhuyh@gmail.com](mailto:nvhuyh@gmail.com)  
**Website:** [www.nguyenvinh.vn](http://www.nguyenvinh.vn)

### **BUSINESS LINES:**

- Manufacture of fabricated metal products
- Manufacture mechanical products
- Manufacture of other metal products & processing services, metal



## \* PERSONNEL ORGANIZATION

### \* ORGANIZATION STRUCTURE

**Director:**

Mr. *Nguyen Vinh Hoa*

**Deputy Director:**

Mr. *Nguyen Vinh Huynh*

**Head of the department functions:**

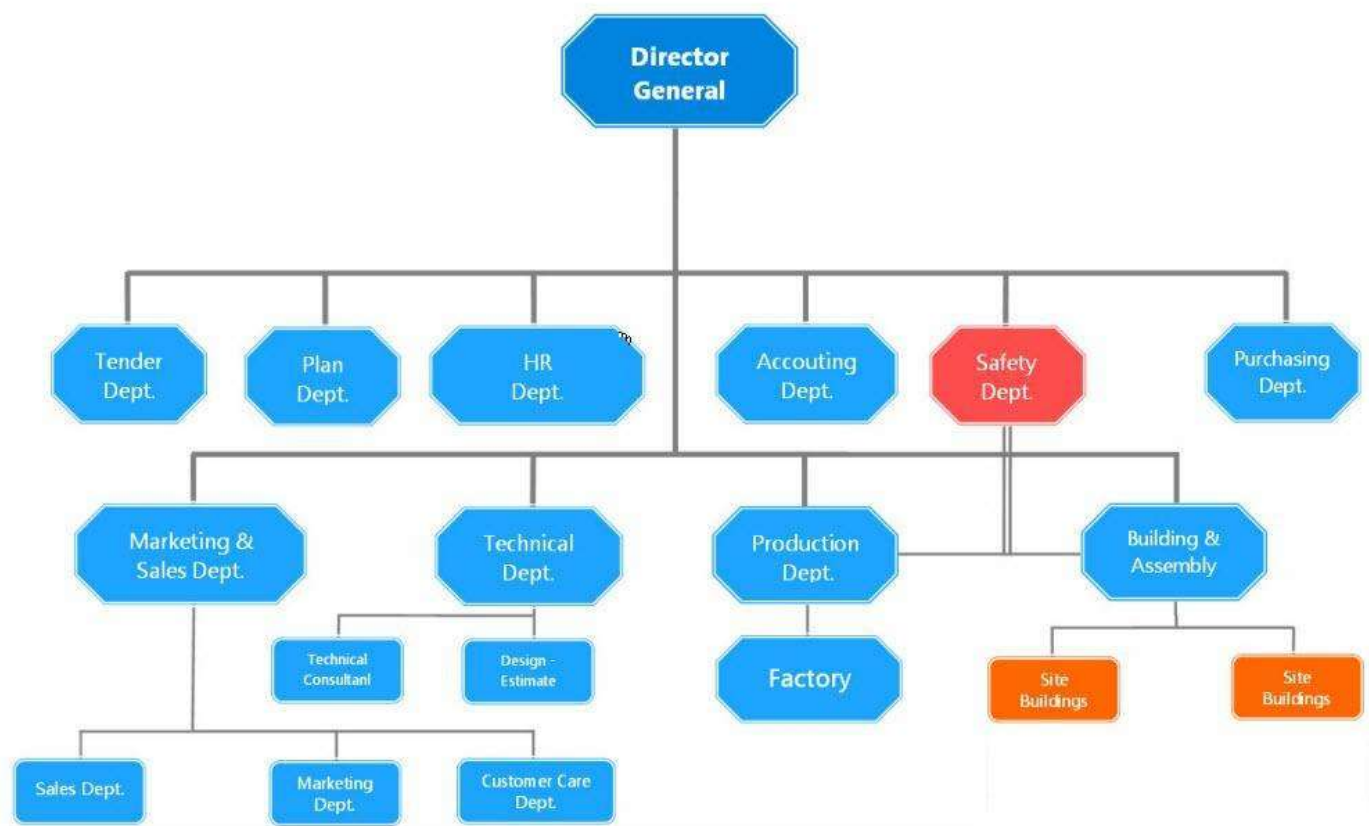
- \* Production Manager : Mr. Tran Huu Thang
- \* Technical Dept. Manager : Mr. Nguyen Xuan Hoang
- \* Material Dept. Manager : Mr Le Viet
- \* Accounting Dept. Manager : Ms. Nguyen Thanh Loan
- \* Sale Dept. Manager : Mr. Nguyen Vinh Huynh
- \* HR Manager : Ms. Tran Hoai Thu

**The staff situation of the company**

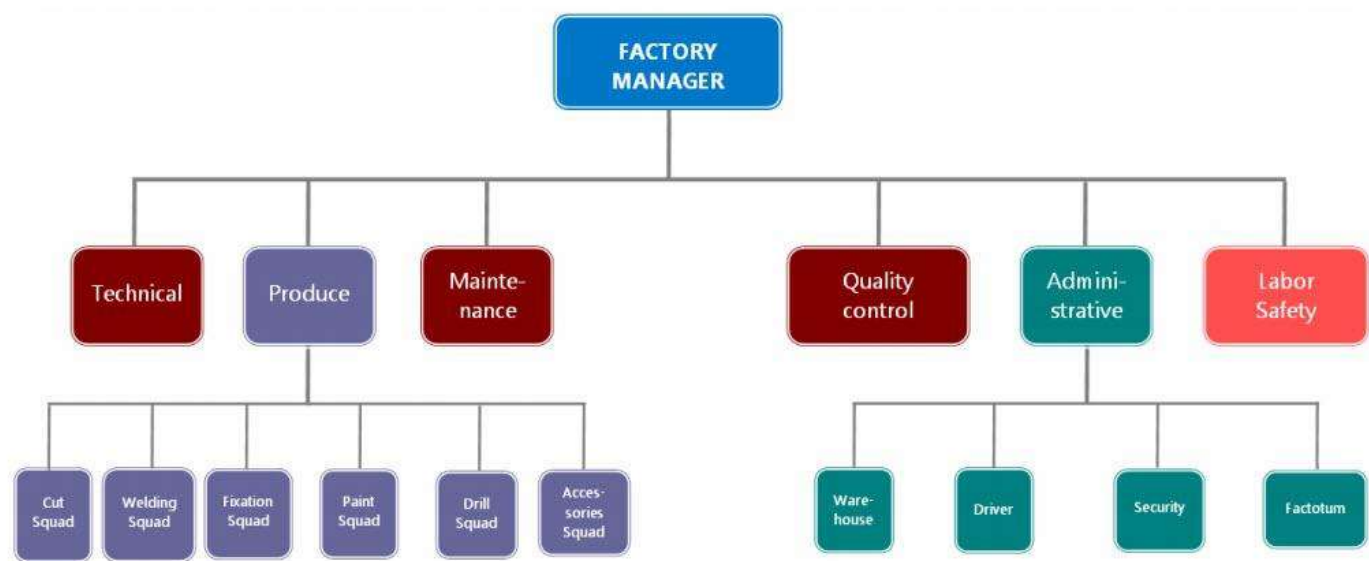
- Officers & Admin. 15 people
- Officers & Technician 20 people
- Workshop workers: 40 people
- Construction workers: 15 people



\* ORGANIZATIONAL CHART



\* ORGANIZATION CHART OF FACTORY



## LIST OF MANAGEMENT &amp; TECHNICAL STAFF

NO	NAME	EDUCATION	EXPERIENCE (YEARS)	POSITION
1	Nguyen Vinh Hoa	University	30	Director
2	Nguyen Vinh Huynh	University	24	Vice Dir.- Sale Manager
3	Tran Huu Thang	University	20	Factory manager
4	Le Thu Hien	University	17	Office manager
5	Vu Thi Loan	University	14	Accounting manager
6	Nguyen Xuan Hoang	University	15	Tech. manager
7	Tran Hoai Thu	University	20	Human resouce manager
8	Tran Minh Trung	University	9	Project executive
9	Nguyen Chau Hoa	University	6	Project executive
10	Cao Anh Hung	University	6	Project executive
11	Le Hoang Duy Hung	University	7	Project executive
12	Do Anh Tuan	University	7	Project executive
13	Nguyen Quoc Toan	University	6	Project executive
14	Bui Quang Tung	University	9	Safety Dept
15	Nguyen Duy Linh	University	7	Safety Dept
16	Dang Vu Dang	University	7	Safety Dept
17	Nguyen Ngoc Thanh	University	5	Production designer
18	Tran Minh Hoang	University	5	Production designer
19	Le Van Thiem	University	5	Production designer
20	Tran Huu Bang	University	4	Construction Estimator
21	Trinh The Dung	University	4	Production engineer
22	Duong Manh Linh	University	4	Production engineer
23	Le Quang Tung	College	3	Production engineer
24	Nguyen Le Sung	College	3	Production engineer
25	Le Quang Dong	College	3	Production engineer
26	Nguyen Duc Than	College	3	Production engineer
27	Dao Phu Uy	College	2	Production engineer
28	Tran Manh Hung	College	2	Production engineer
29	Nguyen Ngoc Thanh	Universtiy	8	Maintainer
30	Le Van Duoc	College	11	Maintainer





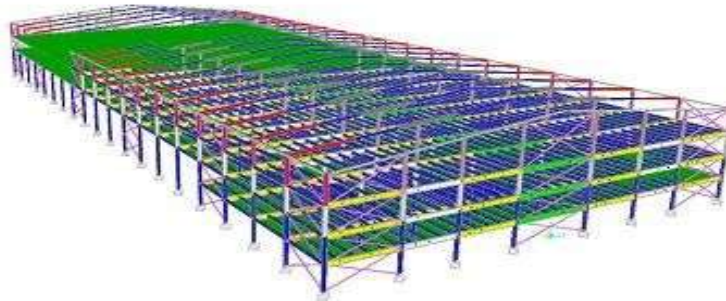
## \* DESIGN CAPACITY

### \* TECHNICAL DESIGN CAPACITY

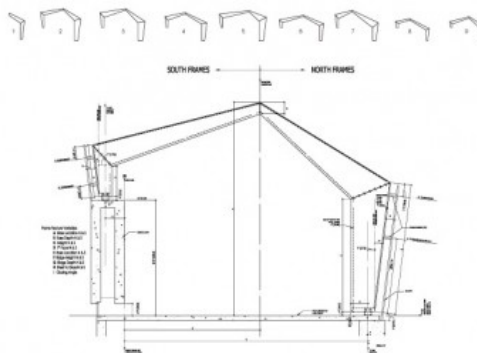
- **Architectural design drawings:** Provide solution to design, analyze & guide the investors' optimal choice. After reaching plan, complete the design of architecture, structure, materials & intentions expressed in the drawings, elevation, section, perspective.



- **Design production drawings:** Once the design drawings are approved, the structure of the works will be shown on detailed drawings & clearly coded numbers.



- **Design estimate:** Calculate extract the amount, for tenders, construction, completion, issues arising in volume



## \* DESIGN STANDARDS

### ➤ INTERNATIONAL STANDARD

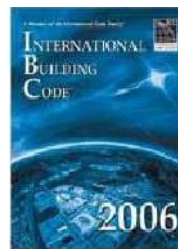
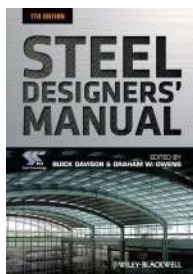
- AWS D1.1 Edition 2008
- AISC 2005 – American Institute of Steel Contructions
- MBMA. 2002 – Metal Building System Manu
- Quality Manual

### ➤ VIETNAM STANDARD

- TCXD VN 338: 2005 Steel Structures – Design standards
- TCVN 3223: 1994 Welding electrodes for carbon steel and low alloy steel
- TCVN 1916: 1995 Bolts, screws, nuts and screws implanted. Technical Requirements

### ➤ CHECK LAB

- TPI Third Party Inspection
- NDT Non-Destructive Testing
- MPI Magnectic Particle Inspection





## \* PRODUCTION CAPACITY

### HUMAN RESOURCES

- Currently, there are about 50 people working in our factory including workers, maintenance (including heads), engineers in charge of production for each project & the rest is protected, accounting, personnel indirectly, forklift, truck drivers...
- Production workers are divided into groups according to their functions as: The cutting, the accessories, the drill, the shape, the welding, assembly of accessories, the finishing, the rub abrasive cleaning, spraying the ball, the paint....each team managed by team leaders direct executive producer.

### SAFETY EQUIPMENT

- All staff & workers in the plant is equipped with helmets, protective clothing, steel tip shoes, gloves fully under the provisions of protection for mechanical engineering
- Also, depending on the requirements for the specialized group such as cutting, welding, drilling, painting,... that workers are equipped with facilities like: Black glass & special glass for welders in charge welding, glass for workers in charge of sanding abrasive cleaning components, spray paint, masks for worker spraying

### GENERAL ARRANGEMENT.

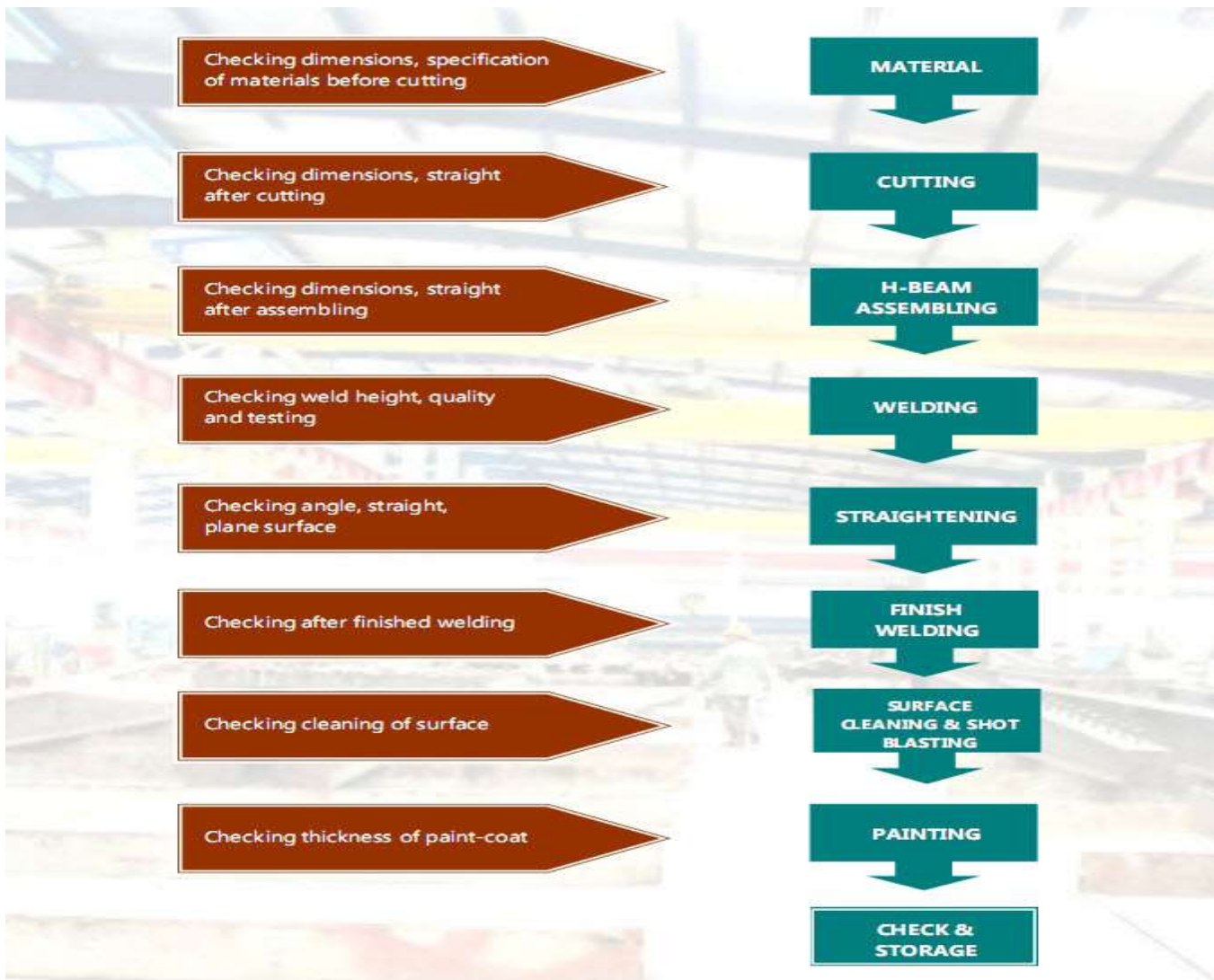
- The total area is 3.000m<sup>2</sup> plants, of which production desk near 2.000 m<sup>2</sup>. The around the dump finished products occupy 1.000 m<sup>2</sup>. Regional offices, cafeterias, parking, storage of supplies & accessories are arranged separated from the main production areas to ensure their utility.
- The plant is arranged in a closed production lines, facilitate the import of raw materials into areas cut and finished product inventory, including the use by special-use vehicles
- Paint area is arranged at the end of production areas, completed structures will be painted in the paint shop to dry 1-2 days, then will be carried out beach area warehouse contained & continues to be completely dried in the sun, make sure the factory coating layer is completely dry, limiting the scatches & paint miles.
- All divisions, departments & regional plants are arranged according to synchronization, there is close monitoring in 24/24 of of Protection Division.



## \* PRODUCTION PROCESS

- Blasting is used as standard SA2.0 or 2.5 depending on design requirements. After spray painting will be finished soon lining paint stick better and to avoid rust.
- Overall production at the factory engineers supervise production and QC staffs cut by drawing shop drawing and sticking by standards required by the original design documents.
- The design drawings, shop drawing, testing records, production records are being set up and monitored throughout the production process. After the end of production, all records are stored and marked by customer code to facilitate the management.

## \* PRODUCTION PROCESS CHART



A. MATERIALS

NO	MATERIALS	SPECIFICATION	CHECKING	
			SCOPE	STANDARD
1	Steel plate	(1.500 x 6.000) mm Thickness: (4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 20 ... ) mm	Length Width Thickness	Tolerance $\pm 2$ mm
2	Steel coil	Thickness: (1.5, 1.8, 2.0, 2.4, 2.5, ...) mm	Width Thickness	Accurate
3	Sheet coil	Width: 1.200 mm Thickness: (0.35, 0.45, 0.48, 0.53, 0.55) mm	Width Thickness	Accurate



Figure 1: Steel Coil



Figure 2: Steel Plate





## **B. CUTTING**

Cutting follow the detail figure, dimension in approved shop drawing.

### **1. Machines:**

- Steel cutting machine CNC: Equipment system software, the CNC cutting, drawing CSD, with the automatic, automatic programming, cutting simulation, cost calculation,...cutting steel curved shape.
- CNC Cutting Machine: cutting system with 10 cutting heads are parallel, cut steel with thickness of 18 mm, 20 mm, 24 mm...
- Hydraulic Cutting Machine: cutting steel as straight and oplique, maximum thickness is 16 mm.



Figure 3: CNC Cutting Machine



Figure 4: HYDRAULIC Cutting Machine

### **2. Performance**

- Steel plate is accurately marked following detail drawing
- Steel plate is moved to the position to cut by the crane, and only cut after checking the accurate position.
- Completed products after cutting are piled as predetermined position to prepare for shaped press..

### **3. Checking:**

- Demension: length, width are accurate as detail demension of each product after cutting.
- The edge of steel plate has to be straight, even.

### C. ASSEMBLING:

#### 1. Machines:

- Vertical Assembling Machine by a hydraulic system presses one flange plate, one web plate welded automatically to make building components even and oblique.
- Horizontal Assembling Machine by two hydraulic systems presses 2 flange plate and one web plate welded automatically to make structural members even, oblique.



Figure 5: Hydraulic Assembling Machine

#### 2. Performance:

- Each flange and web are pressed by the crane.
- After welding to locate a face of flang, structural member is turned up to press and weld the remained flanged.
- The building components are welded with the distance from 300-400 mm a position.
- The shaped building components are gathered to weld area to prepare for continual weld period.

#### 3. Checking:

- Demension: length, width are accurate as detail demension of each structural member after shaping.
- The joints of flange and web are straight, flat, even weld line.
- Flange & web plate are perpendicular and equal together
- The touch between flange and web is tight, the gap does not exceed 2mm

### WELDING:

#### Machines:

- Automatic welding machine: welded to wings and abdomen, used for soldering the components are to equals and oblique.
- Automatic wheel weld machine: cling on the web of building components by magnetic force, permanent magnet and the wheels to weld building components equal, oblique and curved...

#### Performance:

- The building components are welded by automatic weld line.
- The building components after welding a face are turned up to weld other face until welding 4 faces completely.
- The welding building components are gathered to mould area to prepare for straight mould period.

#### Checking:

- Welding line has to be straight, evenly. Weld joints have to tight on the flange and web.
- Testing the height off weld line as design drawing and as the standards in Vietnam Standard of Steel Structure.
- The defects, damages must be found and repaired before transferring to next period.

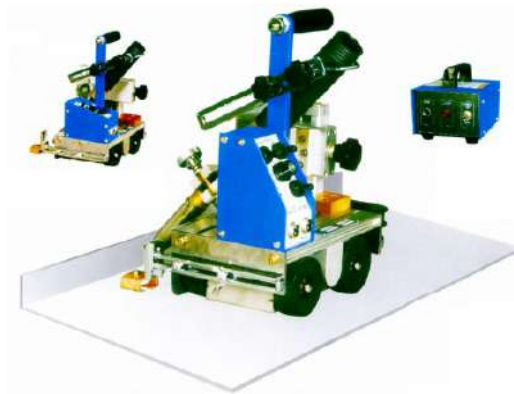


Figure 6: Automatic wheel weld machine

### STRAIGHTENING:

#### Machines:

- Vertical hydraulic mould machine used for vertical building components. Repairing, moulding beam flange is deformed after welding.
- Cross hydraulic mould machine used for vertical and curved building components. Repair, moulding beam flange is deformed after welding.

#### Performance:

- Building components after continual weld, the flange is deformed because of temperature effect.
- Using mould machine mould procedure suitable based on curved or straight building components.
- Building components after moulding are gathered to completing area to complete weld period of sub-details, making hole...

#### Checking:

- The flange plate after moulding has to be straight, flat
- Flange and web plate are perpendicular and equal together.



Figure 7: Hydraulic Mould Machine



**FINISHED WELDING:****Machine:**

- CO<sup>2</sup> gas and wire weld machine: used for welding the small details such as stiffener, purlin.
- Magnetic field drill, hydraulic hole bore machine are used to locate the holes on structural members.

**Performance:**

- Building components after moulding are completed sub-details such as: stiffener, purlin, braced beam, making holes of purlins, beam,...

**Checking:**

- All details must be installed fully, following dimension and location.

**SHOT BLASTING & SURFACE CLEANING:****Machine:**

- Surface of building components is cleaned by a system of automatic shot blasting.
- Building components are in and out shot blasting by a automatic roller
- Standard of cleaning surface is SA 2.0

**Performance:**

- After completion, building components will be cleaned, cutting cinder by the grinder, conducting the welding cinder.
- Building components after grind are gathered to the area of cleaning surface by crane and move to the location of cleaning surface by the roller
- Cleaning surface of structural members can work with 2-3 building components at the same time.
- The period of cleaning surface must be even, building components have to be cleaned all locations of surface.

**Checking:**

- Building components after cleaning surface must be clear, not be rust
- Building components after cleaning surface must be paint a primer coat to prevent the oxidation making building components surface rust.



### **PAINTING:**

#### **Machine:**

- Fang bolt steam-engine with the capacity of 50HP provides the steam to all painting parts.
- The system of half-automatic paint maching.
- The machine to test thickness of electrical piant.

#### **Performance:**

- Building components surface before painting must be dry.
- Paint each coat and overall paint
- After each dried coat, testing thickness of paint before painting next coat.

#### **Checking:**

- Period of waiting dried surface is 6
- Thickness of each coat of paint is as design drawing



Figure 8: Painting the building components

### CHECKING & STORAGE:

Building components after completed paint are tested one more before handing over warehouse department to gather to the storage for delivery to the building site.



Figure 9: Completed products

## \* CONSTRUCTION CAPACITY

### ➤ THE STAGES OF CONSTRUCTION

#### 1. Receiving and storage of construction materials

- The receipt of materials is strictly controlled, to avoid the maximum lack or excess of the materials in the construction.
- Preservation of materials is a very important part to ensure suppliers are not warped and scratched paint.
- Check the materials carefully prior to installation.

#### 2. Installation of foundation bolts

- Tri Viet Steel Buildings to focus investment in equipment to installation of foundation bolts, this is the important part directly affecting the deployment and installation the rafter as well as quality of construction.

#### 3. Erection of main frame

- As part of the main installation of pre-engineered steel buildings, to the coordination and ensure 100% accuracy on right angle, height, plane.
- The equipment such as: Truck cranes, forklifts, meter theodolite, laser projectors,... are used throughout the installation process.
- The protective equipment safety to ensure the best, especially with the requirement of construction work on high.

#### 4. Install roof religions

- The erection of the roof religion was conducted after the main frame erection complete and accurate alignment, the bolts, tie bars have been closely tied.
- Roof to be installed and calibration very carefully, for ensure to quality and aesthetic of construction.

#### 5. Install religious wall

- With the installation of the same religious roof, but a shorter length of aperture.
- Requires the good combination about installation of the wall with respect to building concrete.

#### 6. Complete construction

- This is the final work to complete the steel buildings. It requires meticulous checking, precision made stages.



**CONSTRUCTION SCHEDULE**

- Construction period: the close coordination between divisions, departments to ensure for the period of construction works completed.
- The plan to ensure progress: Employee monitoring construction schedule will be updated and reported regularly, there are plans for additional reserves to ensure the contract schedule.

**CONSTRUCTION SAFETY**

- Safety Department was held with strict regulations on labour safety regulations for workers, have regulations to control from production to construction and installation.
- Equipment safety is the maximum investment, operation monitoring occupational safety and always updated regularly arranged throughout the building works.

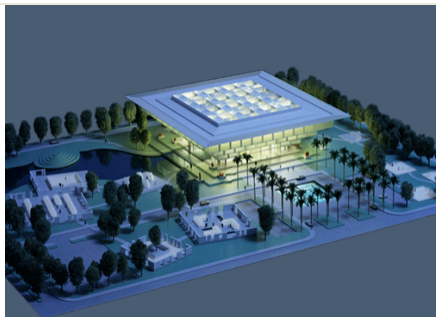


## LIST OF THE NGUYEN VINH 'S REF. PROJECTS

NO	NAME OF CONSTRUCTION	ADDRESS	AREA (M <sup>2</sup> )	
1	Hanoi Museum	Ha Noi	31,920	
2	Petro Tower	Ha Noi	13,125	
3	Vinaconex office building	Ha Noi	15,320	
4	MTM Factory	Nghe An	35,430	
5	Vinaconex White limes stone Factory	Yen Bai	12,320	
6	Development Co. No.1	Yen Bai	24,000	
7	Phiabjooc factory	Bac Kan	34,000	
8	Nespice	VSIP Binh Duong	26,290	
9	Lixin	Vung Tau	12,220	
10	Lien Hiep factory	Nghe An	32,480	
11	Pitco Spice	Binh Duong	15,398	
12	Yen Bai Cement factory	Yen Bai	45,980	
13	Son Ha Spice factory	Bac Ninh	23,080	
14	LBM	Lam Dong	31,253	
15	Coecco	Nghe An	23.786	
16	Vietracimex factory	Nghe An	37,542	
17	Olam	Dong Nai	10,000	
18	327 Whitestone Company factory	Yen Bai	10,520	
19	Vicostone Company factory	Ha Noi	40,220	
20	Bim Son Cement's warehouse	Thanh Hoa	30,332	
21	Cong Thanh Cement 's ware house	Thanh Hóa	34,980	
22	Thăng Long Cement factory	Quang Ninh	37,448	
23	2 <sup>nd</sup> Vietracimex factory	Nghe An	26,788	
24	Anh Duong Aggregate Plant	Ninh Thuan	10,220	
25	Yen Bai Banpu( Imerys) Plant	Yen Bai	24,360	
26	Heat Resistant Material factory	Thai Nguyen	24,728	
27	Mong Son factory	Yen Bai	27,388	



SOME PROJECTS' PHOTOS



Hanoi Museum



Yen Bai Banpu Warehouse



327 White Stone factory



Development Co. No. 1



Nari Hamico factory



Vinaconex Whitestone Factory



Mong Son warehouse



Vietracimex factory



Cong Thanh Cement factory





## Nguyen Vinh Company Ltd

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