

**VIETNAM INFRASTRUCTURE DEVELOPMENT  
AND FINANCE INVESTMENT JOINT STOCK COMPANY**

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# **SUPERVISION REPORT ON WORKER HEALTH IN CONSTRUCTION AREA**

**THE EXPRESSWAY HA NOI – HAI PHONG PROJECT**  
**The Third monitoring of locations of packages**

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## CHAPTER 1.

### GENERAL INFORMATION ON THE PROJECT

#### 1.1. Introduce to project

The Prime Minister issued Decision No. 1621/QĐ-TTg on the investment of the “Hanoi-Haiphong highway project”, the first type of Vietnamese highways built according to international standards. The route starts at the third ring road of Ha Noi, and ends at Hai Phong city. This highway route runs across Ha Noi, Hung Yen, Hai Duong and Hai Phong.

#### 1.2. Location of project

The beginning: locate on the third ring road of Ha Noi, 1025m away from Thanh Tri abutment, 1420 m to Red river Dyke from Bac Ninh, belonging to Thuong Hoi village, Thach Ban precinct, Long Bien district, Ha Noi city.

Start point is connect directly to Long Bien – Thach Ban Road.

End point : Dap Dinh Vu – Hai An - Hai Phong.

The research scope of the project has been identified as appropriated plan and area influenced by the activities of the project. Therefore, the research scope of highway Ha Noi to Hai Phong runs across provinces, including villages, communes, district, and city as follows in table 1:

**Table 1: The villages where the highway runs across**

Ordinal	Province/City	Urban district/ district	Precinct/Commune	Location
1	Ha Noi	Long Bien	Thach Ban	Km 0 - Km 6,1
		Gia Lam	Đa Ton, Kieu Ky	
2	Hung Yen	Van Giang	Cuu Cao, Long Hung, Tan Tien	Km 6,1 - Km 25
		Yen My	Hoang Long, Yên Phu, Viet Cuong, Minh Chau, Thuong Kiet, Tan Viet	
		An Thi	Van Du	

3	Hai Duong	Binh Giang	Thai Duong, Thai Hoa, Thai Hoc, Co Bi	Km 25 - Km 82
		Gia Loc	Yet Kieu, Phuong Hung, Gia Khanh, Gia Xuyen, TT Gia Loc	
		Tu Ky	Ngoc Ky, Dong Ky, Tu Xuyen	
		Thanh Ha	Thanh Hong, Thanh Cuong, Vinh Lap	
4	Hai Phong	An Lao	Quang Trung, Quoc Tuan, My Duc, An Thai	Km 82 - Km 105+500
		Kien Thuy	Huu Bang, Hoa Nghia	
		Hai An	Trang Cat	

### 1.3. Introduction to consultant unit observation

- The consultant unit Environmental observation: Institute of Environment Technology.

- Address: A30 Building, Institute of Environment Technology, 18 Hoang Quoc Viet Street – Cau Giay district – Ha Noi capital.

- Tel: 043 7569 136; 043 7911 654; 043 7916 512

- Fax: 043 7911 203

## CHAPTER 2.

### THE STATISTICAL SURVEY METHOD

Survey the health status of workers in the packages of project to collect data on the health centre status of construction units; the living and health of workers, staffs and preventive measures, prevent accidents which the construction units use. The purpose of survey is to supply data on the number of people who are affected by the process on building.

#### **2.1. The survey methods**

- The document analysis method: Collection and analysis social information based on the analysis of former documents.

- The observation method: Collection and analysis social information on research subject through direct perception and record true the factors related to the object and purpose of research.

- Interview method: Collection and analysis social information through dialogue in a subject, a certain order among researchers with research objects.

- Anklet method: Collection social information based on the questionnaire

#### **2.2. . Collect documents and analysis information of survey and write report.**

- The information needed processing

- + *Primary information-level 1*: The information is collected from different source.

- + *Primary information-level 2*: The information is processed purely technical to the social statistical methods.

- + *Advance information-level 3*: The information is analyzed, summarized by expert and researchers to show scientific conclusion, after that make recommendations and forecasts.

- Evaluate the collected information.

- Test the research hypothesis

- Write summary report

## CHAPTER 3.

### THE ECONOMIC – SOCIAL CONDITION OF PROJECT

#### 3.1 General information about Ex

Ordinal		Km	Precinct/Commune	Location	Number of Employees
1	EX 2	6+200 - 19+000	Hung Yen	Namkwang Engineering and Constructor Co.,Ltd	185
2	EX 3	19+000 - 33+000	Hung Yen	China Road & Bridge Corporation Corporation	131
3	EX 4	33+000 - 47+500	Hai Duong	Keangnam Enterprises Korea Co.,Ltd	250
4	EX 5	47+500- 63+300	Hai Duong	Venture Expressway Co., Ltd. Guangdong University, China, and the company Technical Cooperation and International Economic Guangzhou, China	280
5	EX 6	63+300- 72+000	Hai Duong	GS Engineering & Construction Corp Company	400
6	EX 8	81+300 - 96+300	Hai Phong	Bridge Group Co., Ltd. Shandong	95
7	EX 10	96+300 - 105+500	Hai Phong	Engineering and Construction Co., Ltd. Namkwang	300

Survey shows that the number of officers and employees in packages has been a change compared to their supervision. Except EX5 of the number of officers, employees decreased 70 people, left most of its Package rates are between 15 - 150 people.

### 3.2. Medical status of the construction company

**Table 2: Medical status of the construction company**

Ordinal	The name of package	Number of doctors (people)	Number of Physician (people)	Number of nurses (people)	Medical equipment
1	EX 2	0	0	1	01 aid Station with adequate medical equipment and medicine
2	EX 3	2	3	4	Medicine cabinet, simple first aid equipment
3	EX 4	0	0	0	There is one first aid room in the unit. It also contracted with three local medical stations.
4	EX 5	0	1	0	With first aid, medicine cabinets
5	EX 6	0	0	1	The first aid with well-equipped was set at the office contractor
6	EX 8	1	0	0	Medicine cabinet, ambulance car.
7	EX 10	1	1	1	Medicine cabinet set in construction site.

The number of doctors and nurses in the construction units has changed from the previous survey results and largely decreased.



About Medical equipments, construction units are the medical facilities at the site to timely rescue emergencies occur on site or contracted with a number of medical facilities at region to support.

### 3.3. The living conditions of the staff and workers

**Table 3: The living conditions of the staff and workers**

Ordinal	The name of package	Water supply situation			Power supply situation	Flooding situation	Guest Satisfaction
		water sources	amount of water	Water quality			
1	EX 2	water wells	sufficient	clean	stable	Occasional flooding	Relatively satisfied
2	EX 3	water wells	sufficient	clean	stable	Good drainage	Very satisfied
3	EX 4	water supply	sufficient	clean	stable	Good drainage	Very satisfied
4	EX 5	water supply	sufficient	clean	unstable	Good drainage	satisfied
5	EX 6	water supply	sufficient	clean	stable	Good drainage	Very satisfied
6	EX 8	water supply	sufficient	clean	stable	Good drainage	Very satisfied
7	EX 10	water supply, water wells	sufficient	clean	stable	Occasional flooding	Very satisfied

The survey results shows living conditions of staff and workers in the construction bid package is relatively good. Compared with the results of the investigation before, packages EX 6 multi-use water supply for living instead of poor-

quality water wells. However, in two packages EX 2 and EX 10, living area of civil servants, construction workers flooding symptoms.

Power supply for the purpose of living in the package is considered stable, except EX of 5.

### 3.4. Health situation of officials and workers

#### 3.4.1. Statistical results of the latest health

- *Sexually transmitted disease:* Results of survey of health personnel, construction workers in the package that has not yet appeared infected cases of sexually transmitted diseases.
- *Infectious Diseases:* Most of the staff and workers in the package do not have the phenomenon of infectious disease. Except Package EX 3, 02 people suffering from infectious diseases (dengue) in total 131 people.
- *Chronic:* 6/8 package without chronic cases. Package EX 3 with 1 case of lung disease.
- *Occupational diseases:* 3/8 package does not have a field to occupational diseases. Package EX 3 5 occupational diseases, mainly respiratory diseases. Package EX 10 with about 15 people with a total of 300 people and mainly diseases of the ear and the eye. Compared with the results of previous surveys, the number of occupational diseases in packages dropped.
- *Other diseases:* The results showed that the number of people with common diseases such as lungs, eyes, gastrointestinal tract, ... dropped compared to the previous survey results. Table 3 shows the with 03 packages EX 3, EX 4 and EX 10 people with the disease, the remaining 5/8 Package no case of infection.

Causes mainly due to air pollution, noise and water in the area under construction. Time the largest outbreak in the spring and summer.

**Table 4. Statistics on the number of people with the common diseases in the packages**

Ordinal	The name of package	The number of staff and workers	Lung disease	Respiratory disease	Eye disease	Intestinal disease	Ear Nose & Throat	Skin disease

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1	EX 2	185	0	0	0	0	0	0
2	EX 3	131	1	5	3	14	26	4
3	EX 4	250	5	5	0	0	0	0
4	EX 5	280	0	0	0	0	0	0
5	EX 6	400	0	0	0	0	0	0
6	EX 8	95	0	0	0	0	0	0
7	EX 10	300	6	6	12	0	9	6

**3.4.2. The health protection measures for staffs and workers at construction site.**

**Table 5. The health protection measures for staffs and workers**

<b>Ordinal</b>	<b>Package name</b>	<b>The number of time organization to care periodically a year</b>	<b>Fostering rehabilitation</b>
1	EX 2	None	Yes
2	EX 3	Once a year	Yes
3	EX 4	Twice a year	Yes
4	EX 5	Twice a year	Yes
5	EX 6	Twice a year	Yes
6	EX 8	Once a year	Yes
7	EX 10	Twice a year	Yes

The survey results show that the contractors organized to care periodically for workers and staffs at least once a year. Beside, they have the fostering rehabilitation, except EX 2 package (Table 5).

**3.5. The status of labor accidents on construction site.**

### 3.5.1. The preventive labor accident measures

**Table 6. The preventive labor accident measures**

<b>Ordinal</b>	<b>Package name</b>	<b>The labour safety equipment</b>	<b>Propangada, training of security measures</b>
1	EX 2	Yes	Yes
2	EX 3	Yes	Yes
3	EX 4	Yes	Yes
4	EX 5	Yes	Yes
5	EX 6	Yes	Yes
6	EX 8	Yes	Yes
7	EX 10	Yes	Yes

In general, the contractors had the prevention measurement of labor accidents such as equipment of the labour safety and propangada, training of security measures (Table 6).

### 3.5.2. Statistic of people with labor accidents in the period monitoring, observing

The survey result shows that all of packages have not any labor accident since the beginning of construction, except EX 10 which have 3 case with occupational accidents.

### 3.6. Supervise and report on health and safety at work

**Table 7. Supervise and report on health and safety at work**

<b>Ordinal</b>	<b>Package name</b>	<b>Supervise and report on health and safety at work</b>
1	EX 2	12 times a year
2	EX 3	Twice a year

3	EX 4	12 times a year
4	EX 5	Twice a year
5	EX 6	312 times a year
6	EX 8	24 times a year
7	EX 10	300 times a year

The surveyed packages supervise and report on health and safety at work at least twice a year. In particular, the Korea company's packages supervise 312 times a year (table 6).

## CONCLUSION

- The status of healthcare centre: construction units have medical facilities for timely rescue, emergency happens on site. However, the material facilities and the physician quantity are scarce.

- The living conditions of workers and staffs in packages are relative good, except EX 2 and EX 10 packages which is water logging.

- The health situation of workers, staffs: there is disappearance of sexually transmitted. Infectious Diseases: EX 3 has 02 people. Chronic diseases: EX 3 has 01 people and EX 10 has 25 people. Occupational disease: EX 3 has 5 people; EX 10 has 15 people. The number of people with lung disease, respiratory disease, gastrointestinal tract; eyes & ear, nose throat mainly belong of EX 3, EX-4 and EX 10 Packages.

- The health protection measures for staffs and workers: the contractors organized to care periodically for workers and staffs at least once a year.

- The prevention measurement of labor accidents: enough equipment of the labour safety and propaganda, training of security measures.

- During monitoring and observing period, there is only 3 cases with occupational accidents in EX10 .

- The observing and health report are organized at least twice a year. In which, the Korea company's packages is 312 times a year.