

# ENVIRONMENT PROTECTION INFORMATION ON XUAN HOA QUARRY IN 2019

## I. Information

- Investor: Sonadezi Corporation
- Address: No. 1, Road 1, Bien Hoa 1 Industrial Zone, An Binh ward, Bien Hoa city, Đồng Nai.
- Xuan Hoa Quarry's address: Xuan Hoa commune, Xuan Loc district, Dong Nai province.
- Tel: 0251.8860561
- Fax: 0251.8860573
- Website: www.sonadezi.com.vn
- Representative: Mr. Phan Dinh Tham
- Position: CEO

Sonadezi Corporation signed a partnership agreement with Cuong Thuan IDICO Development Investment JSC on business cooperation in the project involving investment and quarrying of stone in Xuan Hoa Quarry, in which Cuong Thuan IDICO Development Investment JSC is in charge of the operation.

## II. Legal documents:

- Decision No.45/QĐ-BTNMT dated January 16, 2013 by the Ministry of Natural Resources and Environment on approving environmental impact assessment and environmental improvement and rehabilitation plan of the project of quarrying stones in Xuan Hoa Quarry, Xuan Hoa Commune, Xuan Loc District, Dong Nai Province.
- Investment certificate No. 47121000403 dated December 26, 2013 by Dong Nai Provincial People's Committee for the project of quarrying stones in Xuan Hoa Quarry, Xuan Hoa Commune, Xuan Loc District, Dong Nai Province to Sonadezi Corporation.
- Mining license No. 1053/GP-UBND dated April 15, 2014 by Dong Nai Provincial People's Committee on approving the implementation of the project of quarrying stones in Xuan Hoa Quarry, Xuan Hoa Commune, Xuan Loc District, Dong Nai Province.
- Confirmation of completion of environmental protection works during the operation of the project of “quarrying stones in Xuan Hoa Quarry, Xuan Hoa commune, Xuan Loc district, Dong Nai province with capacity of 750,000 m<sup>3</sup> of rough stones per year” No. 94/GXN-TCMT dated September 7, 2017 by the Vietnam Environment Administration.
- Groundwater Extraction Permit No. 3428/GP-UBND dated September 29, 2017 by Dong Nai Provincial People's Committee.
- Wastewater Discharge Permit No. 4514/GP-UBND dated December 13, 2017 by Dong Nai Provincial People's Committee.
- Partnership Agreement No. 26/HĐKT-PTKCN-DA dated July 23, 2015 between Sonadezi Corporation and Cuong Thuan IDICO Development Investment JSC on business cooperation in the project of quarrying stones in Xuan Hoa Quarry, Xuan Hoa Commune, Xuan Loc District, Dong Nai Province.

- Contract No. 73/2019/HD.ĐLS dated June 1, 2019 with Dai Lam Son Co., Ltd. on transport and treatment of hazardous waste.
- Contract No. 01/HĐ.HTX dated January 1, 2019 with Xuan Hoa Commune's Environmental Services Cooperative on the collection of domestic waste.

### **III. Current status of infrastructure:**

- The total area of the quarry: 20.4 ha.
- Exploitation period: 12 years from the date the license was issued.
- Capacity: 750,000 m<sup>3</sup> of rough stones per year
- Water supply: groundwater are utilized for household purposes (under the Groundwater Exploitation Permit No.3428/GP-UBND dated September 29, 2017).
- Drainage system:
  - + For domestic wastewater:  
Domestic wastewater generated from the sanitary area of the quarry is collected by pipeline to septic tank.
  - + For rainwater and industrial wastewater:  
Placing water collecting holes at the mining pits to collect all the water into the pits. All collected water will be pumped by the pumping station to the upper settling pond before being discharged to the receiving water body. Water from the quarry flows towards the Northeast along the pitch to the Ui River

Constructing a dike encircling the site to block the surface water from flowing into the mining pits and sweeping away suspended solids. The total length of the dike is 2,381m, the size: upper base x lower base = 0.5m x 1m, average height is 0.8m. The dike has a talus fortification on both sides at the angle of 45o and trees planted on the dike surface as well as on both sides of the dike foot to extend the longevity of the dike.

### **IV. Current status of environmental protection implementation**

- Current status of environmental protection procedures:
  - + Received a decision on approving the environmental impact assessment and environmental improvement and rehabilitation plan involving investment and quarrying of stone in Xuan Hoa Quarry, Xuan Hoa Commune, Xuan Loc District, Dong Nai Province.
  - + Obtained a confirmation of completion of environmental protection works during the operation of the project.
  - + Deposited an environmental improvement and rehabilitation fund in accordance with regulations.
  - + Paid mining license fees, natural resource consumption tax, environmental and mineral protection fees in accordance with regulations.
- Water collection and drainage:
  - + Constructed septic tanks for workers' daily needs, and periodically hire appropriate authority to collect and treat wastewater.
  - + Constructed a ditch system, water collecting holes, settling ponds and dikes to ensure manufacturing wastewater and rainwater are collected and controlled before being discharged into the environment.

- Solid waste management:

+ Sorted waste at source and store waste in accordance with regulations.

+ Outsourced waste treatment to appropriate authorities, including domestic waste treatment contract with Xuan Hoa Commune's Environmental Services Cooperative as well as hazardous waste transport and treatment with Dai Lam Son Co., Ltd.

- Dust and exhaust gas:

The following measures are implemented to minimize dust and exhaust gas during mining:

+ Sprayed water in quarry's internal routes and highly dust-producing areas.

+ Planted trees around the mining pits and industrial yards.

+ Sprayed water to stone material before processing.

+ Organized the flows of truck in and out the project area reasonably, comply with the orders of the traffic conductors, and equip transport vehicles with canvas covers. Loads should not be higher than vehicle's sides and overload is not permitted (<90% of the payload capacity of the vehicle). Moisture the stone before loading and transporting them to the place of consumption.

- Other works on environmental protection:

+ Prepared environmental monitoring reports as prescribed.

+ Followed strictly the regulations on labor safety, fire safety ,...