

## **1. PROJECT TITLE**

SCIENTIFIC FUNDAMENTAL RESEARCH TO DETERMINE MINIMUM THRESHOLD OF SILVER (Ag) CONTENT IN Pb - Zn MINERAL, BUILDING REGULATIONS FOR OVERAL MINERAL EXPLORATION

## **2. INFORMATION OF PROJECT AUTHOR**

2.1. *Full name: Nguyen Thi Thuc Anh*

2.2. *Qualification: Doctor Degree*

2.3. *Working Office: Department of Geology, Hanoi University of Natural Resources and Environment*

2.4. *Phone: 04 3 7643902; 0904803026*

2.5. *Email: nttanh@hunre.edu.vn; thucanhvpg@gmail.com*

## **3. SUMMARY OF RESEARCH RESULTS**

### *3.1. Objectives of the study*

- Establish the criteria relevant to the selection of the Ag content minimum threshold in Pb Zn mineral deposits.
- Determine the minimum threshold of Ag grade that recoverable, achieve economic efficiency in the Pb -Zn mining. Propose appropriate solutions for the management of mineral resources in Vietnam.

### *3.2. Research Methodology*

Methods inherited, expert co-operation, fieldwork, using software, algorithms, geological knowledge of mineral, synthetic methodology system analysis.

### *3.3. Main results achieved*

Lead - zinc ore in research areas mostly are galenite, bulangerite, djemsonite that could be highly recruited, with a content from 25 g Ag g/t can be equal to 500 g /t of in concentrate material, and reality shows with content 65 g /t Ag in the recovery of original ores will be 1,300 g / t Ag in concentrates.

### *3.4. Ability and resulting applications*

Asking to recover Ag mineral in Pb-Zn ore from Ag 25 g/t content level, callculation Ag reserved as major mineral.