**PW 06: VOLUMETRIC COEFFICIENT OF GRAVEL**

1. **Objective of the Experiment**

 Measure the Volumetric coefficient of gravel

1. **Necessary Equipment**
* A balance (scale)
* Water
* Graduated cylinder or beaker
1. **Materials Used**
* A sample of gravel
1. **Operating Procedure**
* Determine the apparent density of the gravel
* Determine the absolute density of the gravel
* Calculation of the Volumetric Coefficient (or Void Index): with the formula

Cv = 1 − (ρabs/ρapp) ​​

Where:

* Cv​ is the volumetric coefficient of the gravel (or the void coefficient).
* ρapp is the apparent density of the gravel.
* ρabs is the absolute density of the gravel.
* Repeat the measurement three times.
1. **Work required**
* Fill in the tables
* Comment on the results
* Make a conclusion

**Table 1: Volumetric coefficient of gravel**

| **Designation** | **Test 1** | **Test 2** | **Test 3** | **Average** |
| --- | --- | --- | --- | --- |
| ρapp |  |  |  |  |
| ρabs |  |  |  |  |
| Cv |  |  |  |  |