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Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada

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| **BLOCK :**  | **G** |
| **FLOOR :**  | **GROUND FLOOR** |
| **ROOM NO:**  | **002/GEOTECHINCAL ENGINEERING LAB** |
| **ROOM SIZE (in Sq. mtrs):** | **112.93** |
| **LAB NAME:** | **GEOTECHINCAL ENGINEERING LAB** |
| **FANS :**  | **3** |
| **TUBE LIGHTS :**  | **3** |
| **CHAIRS :**  | **2** |
| **STAFF TABLES :**  | **1** |
| **EXPERIMENT TABLES :**  | **2** |
| **CLOSED IRON RACKS :**  | **0** |
| **WOODEN CLOSED RACKS :** | **1** |
| **Others:** | **BENCHES-8****,STOOLS-3** |
| **LAB SPECIFICATIONS** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SL.NO** | **NAME OF THE EXPERIMENT** | **EQUIPMENT REQUIRED** | **QUANTITY** | **WORKING STATUS** |
| 1 | SPECIFIC GRAVITY, G | SPECIFIC GRAVITY BOTLE | 1 | YES |
|
| 2 | ATTERBERG’S LIMITS. | CASAGRANDE’S LIQUID LIMIT APPARATUS. | 2 | YES |
|
| 3 | FIELD DENSITY-CORE CUTTER AND SAND REPLACEMENT METHODS | CORE CUTTER & SAND REPLACEMENT METHOD | 2 | YES |
|
| 4 | SET OF SEIVES | SET OF SIEVES: 4.75 MM, 2 MM, 1 MM, 0.6 MM, 0.42 MM, 0.3 MM,0.15 MM, AND 0.075 MM. | 1 | YES |
| 5 | HYDROMETER ANALYSIS TEST | HYDROMETER | 2 | YES |
|
| 6 | PERMEABILITY OF SOIL - CONSTANT AND VARIABLE HEAD TESTS | PERMEABILITY APPARATUS | 1 | NO |
|
| 7 | COMPACTION TEST |   | 1 | YES |
| COMPACTION MOULD , RAMMER |
| 8 | CONSOLIDATION TEST (TO BE DEMONSTRATED) | CONSOLIDATION TEST (TO BE DEMONSTRATED) | 1 | NO |
|
| 9 | DIRECT SHEAR TEST | DIRECT SHEAR TEST | 1 | NO |
|
| 10 | TRIAXIAL COMPRESSION TEST (UU TEST) | TRIAXIAL CELL WITH PROVISION FOR ACCOMMODATING 38 MM DIA SPECIMENS. | 1 | NO |
| 11 | UNCONFINED COMPRESSION TEST | UNCONFINED COMPRESSION TEST | 1 | NO |
|
| 12 | VANE SHEAR TEST | VANE SHEAR TEST | 1 | NO |
|
| 13 | DIFFERENTIAL FREE SWELL (DFS) | ------- | 1 | NO |
|
| 14 | CBR TEST | APPARATUS FOR CBR TEST | 1 | NO |
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