

MES-BioFD

- The 1st Bio-filtration Drainage System design software using drainage cells.
- State-of-art technology in collaboration with REDAC (USM).
- Prevents ponding on sport field surface after the rain.
- Controls both the quality and quantity of stormwater.
- Provides safer, more economical and eco-friendly sport field design.
- User-friendly and straight forward software.



MES-BioFD Interfaces:

- Graphical User Input.
- Auto generates graph and detailing for submission.
- Outputs can be exported to MS Office or CAD application (AutoCAD).

Soil and Filter Media

Topsoil
 Type: Sandy Loam
 Depth, d (m): 0.2
 Hydraulic Conductivity, Kt (mm/h): 36
 Effective Porosity, η (%): 41.2

Filter Media
 Type: Sand
 Depth, d (m): 0.2
 Hydraulic Conductivity, Kt (mm/h): 180
 Effective Porosity, η (%): 40

Information
 Effective Hydraulic Conductivity, m/s: 1.667e-005
 Estimated Travel Time, h: 3.333
 Temporary Storage, m³: 80.000
 Maximum Infiltration Flow, m³/s: 0.017

Inflow vs Outflow

Sample Detailing 1

Sample Detailing 2

Address: 13A, Jalan Kenari 2, Bdr Puchong Jaya, 47170 Puchong, Selangor, Malaysia.

Tel: 03-58851250 (4 lines)

Fax: 03-58851251

Email: info@mes100.com

Website: www.mes100.com



MES-GeoF

- Soil profile and geotechnical foundation analysis software.
- Generates soil profile from borelog report which is imported from excel file.
- Traces column load drawing and generates calculation based on it.
- Able to view and compares the foundation analysis of different sizes, type and capacity.
- Supported pile types include RC pile, spun pile, micro pile, bored pile and pad footing (sizes are provided based on local manufacturer's availability).
- User-friendly and straight forward software.

MES-GeoF Interfaces:

- Graphical User Input.
- User-defined soil profiles.
- Auto calculates slenderness and bearing capacity.
- Outputs can be exported to MS Office or CAD application (AutoCAD).

New Borehole

Borehole Name:

Borehole X: 1732.159

Borehole Y: 4216.015

Ground Water Level:

Piles Assigned:

Borehole Input

| Borehole ID | X | Y | Ground Level | Water Level | Pile Types | Pile Sizes Assigned |
|-------------|---------|----------|--------------|-------------|------------|---------------------|
| B1 | -0.934 | 2.008 | -3 | -3 | RC Pile | 1000,2000 |
| B2 | 52.41 | 1669.263 | -3 | -3 | RC Pile | 1000,2000 |
| B4 | 2351.63 | 13.03 | -3 | -3 | RC Pile | 1000,2000 |

| | Pile Shape | Pile Type | Size mm | Length m | Slenderness (L/d) | Apply Loads (kN) | Bearing Capacity (kN) | No of Piles | |
|-------------------------------------|------------|-----------|---------|----------|-------------------|------------------|-----------------------|-------------|--------------|
| <input checked="" type="checkbox"/> | Circular | RC Pile | 125 | 0.00 | 96.00 | 2000 | 21.79 | 115.00 | View Details |
| <input type="checkbox"/> | Circular | RC Pile | 175 | 0.00 | 94.29 | 2000 | 30.51 | 82.00 | View Details |
| <input type="checkbox"/> | Circular | RC Pile | 225 | 0.00 | 93.33 | 2000 | 39.23 | 64.00 | View Details |

Sample Results

