Lampiran 1

Kode List Program Tampilan Utama

```
Dim db As ADODB.Connection
Dim rs As ADODB.Recordset
Public sql As String
Sub koneksi()
Set db = New ADODB.Connection
db.CursorLocation = adUseClient
db.Open "proyek_ta"
End Sub
Public Sub SetLV_CPT()
With ListView1
    .View = lvwReport
    .GridLines = True
    .MultiSelect = True
    .FullRowSelect = True
    .HotTracking = True
    .HoverSelection = True
    ' tambahkan kolom2 ke, , Judul,lebar,aligment
    .ColumnHeaders.Add 1, , "ID Proyek", 1000
    .ColumnHeaders.Add 2, , "ID Titik", 1000
    .ColumnHeaders.Add 3, , "Kedalaman (m)", 1500
    .ColumnHeaders.Add 4, , "Conus", 1500
    .ColumnHeaders.Add 5, , "Conus+Cleeve", 1500
    .ColumnHeaders.Add 6, , "Keterangan Tanah", 1800
```

```
End With
End Sub
Public Sub SetLV_SPT()
With ListView2
    .View = lvwReport
    .GridLines = True
    .MultiSelect = True
    .FullRowSelect = True
    .HotTracking = True
    .HoverSelection = True
    ' tambahkan kolom2 ke, , Judul,lebar,aligment
    .ColumnHeaders.Add 1, , "ID Proyek", 1000
    .ColumnHeaders.Add 2, , "ID Titik", 1000
    .ColumnHeaders.Add 3, , "Kedalaman (m)", 1500
    .ColumnHeaders.Add 4, , "N1", 500
    .ColumnHeaders.Add 5, , "N2", 500
    .ColumnHeaders.Add 6, , "N3", 500
    .ColumnHeaders.Add 7, , "N", 700
    .ColumnHeaders.Add 8, , "Keterangan Tanah", 1800

End With
End Sub
Public Sub SetLV_ujilab()
Set rs = New Recordset
```

```
If db.State <> 1 Then koneksi


With ListView3
    .View = lvwReport
    .GridLines = True
    .MultiSelect = True
    .FullRowSelect = True
    .HotTracking = True
    .HoverSelection = True
    ' tambahkan kolom2 ke, , Judul,lebar,aligment
    .ColumnHeaders.Add 1, , "ID Proyek", 1000
    .ColumnHeaders.Add 2, , "ID Titik", 1000
    .ColumnHeaders.Add 3, , "Sudut Gesek", 1200
    .ColumnHeaders.Add 4, , "Kohesi", 1000
    .ColumnHeaders.Add 5, , "Berat Volume Basah", 1800
    .ColumnHeaders.Add 6, , "Berat Volume Jenuh", 1800
    .ColumnHeaders.Add 7, , "Muka Air Tanah", 1500
End With
End Sub
Private Sub tampilkan_CPT()
Set rs = New Recordset
If db.State <> 1 Then koneksi
rs.Open "select * from tabel_cpt where id_proyek='" & Combo1 & "'", db,
adOpenDynamic, adLockOptimistic
    Dim Lst As ListItem, nmr As Integer
    With rs
```

```
    ListView1.ListItems.Clear 'Bersihkan Listview
    Do While Not rs.EOF
    Set Lst = ListView1.ListItems.Add
    Lst.Text = rs!id_proyek 'isi kolom 1 dng nmr
    Lst.SubItems(1) = rs!id_titik
    Lst.SubItems(2) = rs!Kedalaman
    Lst.SubItems(3) = rs!Conus 'kol 3 dng nma
    Lst.SubItems(4) = rs!ConusCleeve 'kol 4 Hbeli
    Lst.SubItems(5) = rs!ket_tanah 'kol 5 Hjual

    rs.MoveNext 'gerakan kursor de data berikutnya
    Loop
    End With
Set rs = Nothing

End Sub
Private Sub tampilkan_SPT()
Set rs = New Recordset

If db.State <> 1 Then koneksi
rs.Open "SELECT * FROM tabel_spt WHERE id_proyek='" & Combo1 & "'", db,
adOpenDynamic, adLockOptimistic

    Dim Lst As ListItem, nmr As Integer
    With rs
    ListView2.ListItems.Clear 'Bersihkan Listview
    Do While Not rs.EOF
```

```
    Set Lst = ListView2.ListItems.Add
    Lst.Text = rs!id_proyek 'isi kolom 1 dng nmr
    Lst.SubItems(1) = rs!id_titik 'isi Kol 2 dng Kode Barang
    Lst.SubItems(2) = rs!Kedalaman
    Lst.SubItems(3) = rs!N1 'kol 3 dng nma
    Lst.SubItems(4) = rs!N2 'kol 4 Hbeli
    Lst.SubItems(5) = rs!N3 'kol 5 Hjual
    Lst.SubItems(6) = rs!N 'kol 6 Stok
    Lst.SubItems(7) = rs!ket_tanah


    rs.MoveNext 'gerakan kursor ke data berikutnya
    Loop
    End With
Set rs = Nothing
End Sub
Private Sub tampilkan_ujilab()
Set rs = New Recordset
If db.State <> 1 Then koneksi

rs.Open "select * from tabel_ujilab where id_proyek='" & Combo1 & "'", db,
adOpenDynamic, adLockOptimistic
    Dim Lst As ListItem, nmr As Integer
    With rs
    ListView3.ListItems.Clear 'Bersihkan Listview
    Do While Not rs.EOF
    Set Lst = ListView3.ListItems.Add
```

```
    Lst.Text = rs!id_proyek 'isi kolom 1 dng nmr
    Lst.SubItems(1) = rs!id_titik
    Lst.SubItems(2) = rs!SG
    Lst.SubItems(3) = rs!kohesi 'kol 3 dng nma
    Lst.SubItems(4) = rs!BVB 'kol 4 Hbeli
    Lst.SubItems(5) = rs!BVJ 'kol 5 Hjual
    Lst.SubItems(6) = rs!MAT 'kol 6 Stok


    rs.MoveNext 'gerakan kursor de data berikutnya
    Loop
    End With
Set rs = Nothing

End Sub

Private Sub btn_data_Click()
Form1.Enabled = False
FrmEditPro.Show
End Sub

Private Sub btn_inputCPT_Click()
Form1.Enabled = False
FormUjiCPT.Show
End Sub
```

```
Private Sub btn_inputLAB_Click()
Form1.Enabled = False
FormUjiLab.Show
End Sub

Private Sub btn_inputSPT_Click()
Form1.Enabled = False
FormUjiSPT.Show
End Sub

Private Sub btn_projek_Click()
Unload Me
Form2.Show
End Sub
Private Sub Combo1_Click()
Call koneksi
Set rs = New Recordset

rs.Open "select * from tabel_projek where id_proyek='" & Left(Combo1.Text, 5) & "'",
db, adOpenDynamic, adLockOptimistic
rs.Requery
With rs
If .EOF And .BOF Then
   MsgBox "ID tidak ditemukan", vbOKOnly
   Exit Sub
   Else
   Text1.Text = rs.Fields("nama_projek")
```

```
    Text2.Text = rs.Fields("test_oleh")
    Text3.Text = rs.Fields("test_tanggal")
    Text4.Text = rs.Fields("lokasi_projek")
    Text5.Text = rs.Fields("Keterangan")
    Text6.Text = rs.Fields("id_proyek")
    End If
End With
rs.Close
btn_inputCPT.Enabled = True
btn_inputSPT.Enabled = True
btn_inputLAB.Enabled = True

Call tampilkan_CPT

Call tampilkan_SPT
Call tampilkan_ujilab
End Sub

Private Sub Form_Load()
Call koneksi
Combo1.Clear
Set rs = New Recordset
rs.Open "SELECT * FROM tabel_projek", db, adOpenDynamic, adLockOptimistic

Do Until rs.EOF
Combo1.AddItem rs!id_proyek & Space(5) & rs!nama_projek
```

```
rs.MoveNext
Loop
rs.Close

SetLV_CPT

SetLV_SPT

SetLV_ujilab
End Sub
```

UNIVERSITAS KATOLIK
SOEGIJAPRANATA

Lampiran 2

Kode List Program UJI LAB

```
Dim db As ADODB.Connection
Dim rs As ADODB.Recordset

Sub koneksi()
Set db = New ADODB.Connection
db.CursorLocation = adUseClient
db.Open "proyek_ta"
End Sub
Private Sub btn_analisa_Click()
On Error GoTo eror

Dim c As Single
Dim SG As Single
Dim df As Single
Dim BVB As Single
Dim BVJ As Single
Dim B As Single
Dim L As Single
Dim Dw As Single
Dim Fk As Byte
'simbol
SG = Text1.Text
c = Text2.Text
```

```
df = Text13.Text

BVB = Text4.Text

BVJ = Text5.Text

B = Text6.Text

L = Text7.Text

Dw = Text8.Text

Fk = Text34.Text

'--------------------------------------------------------------------------------

'mencair nilai Nq

e = 2.718281828

N1 = (45 + (SG / 2))

N2 = 2 * Math.Cos(N1 * (22 / 7) / 180) ^ 2

N3 = Math.Tan(SG * (22 / 7) / 180)

N4 = e ^ (2 * (22 / 7) * (0.75 - (SG / 360)) * N3)

N5 = 2 * Math.Cos(N1 * (22 / 7) / 180) ^ 2

Nq = N4 / N5

'mencari nilai Nc

Nc = (Nq - 1) / N3

'mencari nilai Ng

Ng = (2 * (Nq + 1) * Math.Tan(SG * (22 / 7) / 180)) / (1 + 0.4 * Math.Sin(4 * SG * (22 /
7) / 180))


'Keruntuhan geser lokal

'mencair nilai Nq'

e = 2.718281828

c1 = (2 / 3) * c

sg1 = Math.Atn((2 / 3) * (Math.Tan(SG * (22 / 7) / 180))) * 180 / (22 / 7)
```

```
NL1 = (45 + (sg1 / 2))

NL2 = 2 * Math.Cos(NL1 * (22 / 7) / 180) ^ 2

NL3 = Math.Tan(sg1 * (22 / 7) / 180)

NL4 = e ^ (2 * (22 / 7) * (0.75 - (sg1 / 360)) * NL3)

NL5 = 2 * Math.Cos(NL1 * (22 / 7) / 180) ^ 2

NqL = NL4 / NL5

'mencari nilai Nc'

NcL = (NqL - 1) / NL3

'mencari nilai Ng'

NgL = (2 * (NqL + 1) * Math.Tan(sg1 * (22 / 7) / 180)) / (1 + 0.4 * Math.Sin(4 * sg1 *
(22 / 7) / 180))

po2 = df * BVB

'------------------------------------------------------------------------------

'Dw tepat pada posisi / sama Df

'------------------------------------------------------------------------------

'PONDASI MEMANJANG

'keruntuhan geser umum

'qu:

TquM = (c * Nc) + (po2 * Nq) + (0.5 * BVB * B * Ng)

'qun:

TqunM = (c * Nc) + (po2 * (Nq - 1)) + (0.5 * BVB * B * Ng)

'Keruntuhan geser lokal

'qu':

TquLM = (c1 * NcL) + (po2 * NqL) + (0.5 * BVB * B * NgL)

'qun':

TqunLM = (c1 * NcL) + (po2 * (NqL - 1)) + (0.5 * BVB * B * NgL)
```

```
'PONDASI BUJUR-SANGKAR----------
-

'Keruntuhan geser umum

'qu:

TquBS = (1.3 * c * Nc) + (po2 * Nq) + (0.4 * BVB * B * Ng)

'qun :

TqunBS = (1.3 * c * Nc) + (po2 * (Nq - 1)) + (0.4 * BVB * B * Ng)

'Keruntuhan geser lokal

'qu':

TquLBS = (1.3 * c1 * NcL) + (po2 * NqL) + (0.4 * BVB * B * NgL)

'qun':

TqunLBS = (1.3 * c1 * NcL) + (po2 * (NqL - 1)) + (0.4 * BVB * B * NgL)

'PONDASI PERSEGI EMPAT MEMANJANG----------
---------

'Keruntuhan geser umum

'qu:

TquPEM = (c * Nc * (1 + 0.3 * (B / L))) + (po2 * Nq) + (0.5 * BVB * B * Ng * (1 - 0.2 *
(B / L)))

'qun:

TqunPEM = (c * Nc * (1 + 0.3 * (B / L))) + (po2 * (Nq - 1)) + (0.5 * BVB * B * Ng * (1
- 0.2 * (B / L)))


'Keruntuhan geser lokal

'qu':

TquLPEM = (c1 * NcL * (1 + 0.3 * (B / L))) + (po2 * NqL) + (0.5 * BVB * B * NgL * (1
- 0.2 * (B / L)))

'qun':

TqunLPEM = (c1 * NcL * (1 + 0.3 * (B / L))) + (po2 * (NqL - 1)) + (0.5 * BVB * B *
NgL * (1 - 0.2 * (B / L)))
```

```
'PONDASI LINGKARAN----------------------------------------------------------------------

'Keruntuhan geser umum

'qu:

TquLKN = (1.3 * c * Nc) + (po2 * Nq) + (0.3 * BVB * B * Ng)

'qun:

TqunLKN = (1.3 * c * Nc) + (po2 * (Nq - 1)) + (0.3 * BVB * B * Ng)


'Keruntuhan geser lokal

'qu':

TquLLKN = (1.3 * c1 * NcL) + (po2 * NqL) + (0.3 * BVB * B * NgL)

'qun':

TqunLLKN = (1.3 * c1 * NcL) + (po2 * (NqL - 1)) + (0.3 * BVB * B * NgL)

MsgBox "Beban maksimum persatuan luas tanah dapat menopang beban (Pondasi
Memanjang)" & Chr(10) & "qu : " & Text9.Text & Chr(10) & " qun : " & Text10.Text &
Chr(10) & "qu' : " & Text11.Text & Chr(10) & "qun' : " & Text12.Text & Chr(10) &
"Apakah benar hasil beban maksimum tersebut?", vbYesNo + vbInformation, "Hasil qu,
Dw berada tepat atau sama dengan Df"


Text9.Text = TquM

Text10.Text = TqunM

Text11.Text = TquLM

Text12.Text = TqunLM


Text19.Text = TquBS

Text20.Text = TqunBS

Text21.Text = TquLBS

Text22.Text = TqunLBS
```

```
Text15.Text = TquLKN

Text16.Text = TqunLKN

Text17.Text = TquLLKN

Text18.Text = TqunLLKN


Text23.Text = TquPEM

Text24.Text = TqunPEM

Text25.Text = TquLPEM

Text26.Text = TqunLPEM


Text35.Text = TquM / Fk

Text36.Text = TquBS / Fk

Text37.Text = TquLKN / Fk

Text38.Text = TquPEM / Fk


Text27.Text = Nq

Text28.Text = Nc

Text29.Text = Ng

Exit Sub

eror:

MsgBox "Ada kesalahan dalam pengisian data anda", vbInformation, "Kesalahan dalam
memasukkan data"


End Sub

Private Sub btn_baru_Click()

On Error GoTo eror

Adodc1.Recordset.AddNew
```

```
Adodc1.Recordset.Fields("id_proyek") = Text30.Text
Adodc1.Recordset.Fields("id_titik") = Text3.Text
Adodc1.Recordset.Fields("SG") = 0
Adodc1.Recordset.Fields("kohesi") = 0
Adodc1.Recordset.Fields("BVB") = 0
Adodc1.Recordset.Fields("BVJ") = 0
Adodc1.Recordset.Fields("MAT") = 0

Adodc2.Recordset.AddNew
Adodc2.Recordset.Fields("id_proyek") = Text30.Text
Adodc2.Recordset.Fields("id_titik") = Text3.Text
Adodc2.Recordset.Fields("kedalaman_p") = 0
Adodc2.Recordset.Fields("panjang_p") = 0
Adodc2.Recordset.Fields("lebar_p") = 0
'====
Check2.Enabled = True
Text13.Enabled = True
Text6.Enabled = True
Text7.Enabled = True
Text13.Enabled = True
Command1.Enabled = True
Text1.Enabled = True
Text2.Enabled = True
Text4.Enabled = True
Text5.Enabled = True
Exit Sub
```

```
eror:
MsgBox Err.Description
End Sub

Private Sub btn_ganti_Click()
Text14.Enabled = True
Text31.Enabled = True
Text13.Enabled = True

Text6.Enabled = True
Text7.Enabled = True
Text13.Enabled = True
Command1.Enabled = True
Text1.Enabled = True
Text2.Enabled = True
Text4.Enabled = True
Text5.Enabled = True
End Sub

Private Sub btn_print_Click()
FrmPrintUjiLab.Show
FrmPrintUjiLab.CurrentX = 2200
FrmPrintUjiLab.CurrentY = 1000
FrmPrintUjiLab.FontSize = FormUjiLab.FontSize
FrmPrintUjiLab.Print FormUjiLab.Caption
FrmPrintUjiLab.CurrentX = 1000
```

```
FrmPrintUjiLab.Print "--------------------------------------------------------------------------------
----------------------------"

FrmPrintUjiLab.CurrentX = 2200

FrmPrintUjiLab.FontSize = 14

FrmPrintUjiLab.Print Label40.Caption

FrmPrintUjiLab.Print ""

FrmPrintUjiLab.FontName = "arial"

FrmPrintUjiLab.FontSize = 10

FrmPrintUjiLab.CurrentX = 1000

FrmPrintUjiLab.Print Label53.Caption & vbTab & vbTab & Text3.Text

FrmPrintUjiLab.Print ""

FrmPrintUjiLab.FontName = "arial"

FrmPrintUjiLab.FontSize = 10

FrmPrintUjiLab.CurrentX = 1000

FrmPrintUjiLab.Print Label7.Caption & vbTab & vbTab & Text6.Text & "  (m)"

FrmPrintUjiLab.FontName = "arial"

FrmPrintUjiLab.FontSize = 10

FrmPrintUjiLab.CurrentX = 1000

FrmPrintUjiLab.Print Label8.Caption & vbTab & vbTab & vbTab & vbTab &
Text7.Text & "  (m)"

FrmPrintUjiLab.FontName = "arial"

FrmPrintUjiLab.FontSize = 10

FrmPrintUjiLab.CurrentX = 1000

FrmPrintUjiLab.Print Label4.Caption & vbTab & vbTab & Text13.Text & "  (m)"

FrmPrintUjiLab.FontName = "arial"

FrmPrintUjiLab.FontSize = 10

FrmPrintUjiLab.CurrentX = 1000
```

```
FrmPrintUjiLab.Print Label2.Caption & vbTab & vbTab & vbTab & Text1.Text
FrmPrintUjiLab.FontName = "arial"
FrmPrintUjiLab.FontSize = 10
FrmPrintUjiLab.CurrentX = 1000
FrmPrintUjiLab.Print Label3.Caption & vbTab & vbTab & vbTab & vbTab &
Text2.Text & "  (t/m2)"
FrmPrintUjiLab.FontName = "arial"
FrmPrintUjiLab.FontSize = 10
FrmPrintUjiLab.CurrentX = 1000
FrmPrintUjiLab.Print Label5.Caption & vbTab & vbTab & Text4.Text & "  (t/m3)"
FrmPrintUjiLab.FontName = "arial"
FrmPrintUjiLab.FontSize = 10
FrmPrintUjiLab.CurrentX = 1000
FrmPrintUjiLab.Print Label6.Caption & vbTab & vbTab & Text5.Text & "  (t/m3)"
FrmPrintUjiLab.FontName = "arial"
FrmPrintUjiLab.FontSize = 10
FrmPrintUjiLab.CurrentX = 1000
FrmPrintUjiLab.Print "Faktor Keamanan :" & vbTab & vbTab & vbTab & Text34.Text
FrmPrintUjiLab.FontName = "arial"
FrmPrintUjiLab.FontSize = 10
FrmPrintUjiLab.CurrentX = 1000
FrmPrintUjiLab.Print "M.A.T (Dw) :" & vbTab & vbTab & vbTab & Text8.Text & "
(m)"
If Check3.Value = Checked Then
FrmPrintUjiLab.FontName = "arial"
FrmPrintUjiLab.FontSize = 10
FrmPrintUjiLab.CurrentX = 1000
```

```
FrmPrintUjiLab.Print "Gamma efektif  :" & vbTab & vbTab & vbTab & Text39.Text & "
(t/m3)"

FrmPrintUjiLab.FontName = "arial"

FrmPrintUjiLab.FontSize = 10

FrmPrintUjiLab.CurrentX = 1000

FrmPrintUjiLab.Print "Gamma rata-rata :" & vbTab & vbTab & vbTab & Text40.Text &
" (t/m3)"

ElseIf Check3.Value = Unchecked Then

FrmPrintUjiLab.FontName = "arial"

FrmPrintUjiLab.FontSize = 10

FrmPrintUjiLab.CurrentX = 1000

FrmPrintUjiLab.Print "Gamma efektif  :  -  "

FrmPrintUjiLab.FontName = "arial"

FrmPrintUjiLab.FontSize = 10

FrmPrintUjiLab.CurrentX = 1000

FrmPrintUjiLab.Print "Gamma rata-rata  :  -  "

End If

If Check_memanjang.Value = Unchecked Then

FrmPrintUjiLab.FontName = "arial"

FrmPrintUjiLab.FontSize = 10

FrmPrintUjiLab.CurrentX = 1000

FrmPrintUjiLab.Print "qu (Pondasi Memanjang) :  -   "

Else

FrmPrintUjiLab.FontName = "arial"

FrmPrintUjiLab.FontSize = 10

FrmPrintUjiLab.CurrentX = 1000

FrmPrintUjiLab.Print "qu (Pondasi Memanjang) :" & vbTab & Text9.Text & "  (t/m2)"
```

```
End If

If Check_bujursangkar.Value = Unchecked Then

FrmPrintUjiLab.FontName = "arial"

FrmPrintUjiLab.FontSize = 10

FrmPrintUjiLab.CurrentX = 1000

FrmPrintUjiLab.Print "qu (Pondasi Bujur-Sangkar) :  -   "

Else

FrmPrintUjiLab.FontName = "arial"

FrmPrintUjiLab.FontSize = 10

FrmPrintUjiLab.CurrentX = 1000

FrmPrintUjiLab.Print "qu (Pondasi Bujur-Sangkar) :" & vbTab & Text19.Text & "
(t/m2)"

End If

If Check_lingkaran.Value = Unchecked Then

FrmPrintUjiLab.FontName = "arial"

FrmPrintUjiLab.FontSize = 10

FrmPrintUjiLab.CurrentX = 1000

FrmPrintUjiLab.Print "qu (Pondasi Lingkaran) :  -   "

Else

FrmPrintUjiLab.FontName = "arial"

FrmPrintUjiLab.FontSize = 10

FrmPrintUjiLab.CurrentX = 1000

FrmPrintUjiLab.Print "qu (Pondasi Lingkaran) :" & vbTab & Text15.Text & "  (t/m2)"

End If

If Check_PEM.Value = Unchecked Then

FrmPrintUjiLab.FontName = "arial"

FrmPrintUjiLab.FontSize = 10
```

```
FrmPrintUjiLab.CurrentX = 1000

FrmPrintUjiLab.Print "qu (Pondasi Persegi-Empat-Memanjang) :  -   "

Else

FrmPrintUjiLab.FontName = "arial"

FrmPrintUjiLab.FontSize = 10

FrmPrintUjiLab.CurrentX = 1000

FrmPrintUjiLab.Print "qu (Pondasi Persegi-Empat-Memanjang) :" & vbTab &
Text23.Text & "  (t/m2)"

End If

FrmPrintUjiLab.CurrentX = 1000

FrmPrintUjiLab.Print "-------------------------------------------------------------------------
--"

FrmPrintUjiLab.CurrentX = 1000

FrmPrintUjiLab.Print "----------------------DAYA   DUKUNG  IJIN-------------------------
-"

If Check_memanjang.Value = Unchecked Then

FrmPrintUjiLab.FontName = "arial"

FrmPrintUjiLab.FontSize = 10

FrmPrintUjiLab.CurrentX = 1000

FrmPrintUjiLab.Print "qa (Pondasi Memanjang) :  -   "

Else

FrmPrintUjiLab.FontName = "arial"

FrmPrintUjiLab.FontSize = 10

FrmPrintUjiLab.CurrentX = 1000

FrmPrintUjiLab.Print "qa (Pondasi Memanjang) :" & vbTab & Text35.Text & "  (t/m2)"

End If

If Check_bujursangkar.Value = Unchecked Then
```

```
FrmPrintUjiLab.FontName = "arial"
FrmPrintUjiLab.FontSize = 10
FrmPrintUjiLab.CurrentX = 1000
FrmPrintUjiLab.Print "qa (Pondasi Bujur-Sangkar) :  -   "
Else
FrmPrintUjiLab.FontName = "arial"
FrmPrintUjiLab.FontSize = 10
FrmPrintUjiLab.CurrentX = 1000
FrmPrintUjiLab.Print "qa (Pondasi Bujur-Sangkar) :" & vbTab & Text36.Text & "
(t/m2)"
End If
If Check_lingkaran.Value = Unchecked Then
FrmPrintUjiLab.FontName = "arial"
FrmPrintUjiLab.FontSize = 10
FrmPrintUjiLab.CurrentX = 1000
FrmPrintUjiLab.Print "qa (Pondasi Lingkaran) :  -   "
Else
FrmPrintUjiLab.FontName = "arial"
FrmPrintUjiLab.FontSize = 10
FrmPrintUjiLab.CurrentX = 1000
FrmPrintUjiLab.Print "qa (Pondasi Lingkaran) :" & vbTab & Text37.Text & "  (t/m2)"
End If
If Check_PEM.Value = Unchecked Then
FrmPrintUjiLab.FontName = "arial"
FrmPrintUjiLab.FontSize = 10
FrmPrintUjiLab.CurrentX = 1000
FrmPrintUjiLab.Print "qa (Pondasi Persegi-Empat-Memanjang) :  -   "
```

```
Else
FrmPrintUjiLab.FontName = "arial"
FrmPrintUjiLab.FontSize = 10
FrmPrintUjiLab.CurrentX = 1000
FrmPrintUjiLab.Print "qa (Pondasi Persegi-Empat-Memanjang) :" & vbTab &
Text38.Text & "  (t/m2)"
End If
FrmPrintUjiLab.CurrentX = 1000
FrmPrintUjiLab.Print "----------------------------------------------------------------------------
--"
FrmPrintUjiLab.CurrentX = 1200
FrmPrintUjiLab.FontName = "Comic Sans MS"
FrmPrintUjiLab.FontSize = 10
FrmPrintUjiLab.Print "printed at : " & Date
End Sub

Private Sub btn_simpan_Click()
Adodc1.Recordset.Update
Adodc2.Recordset.Update
MsgBox "Data sudah tersimpan", vbInformation, "Uji Laboratorium"
End Sub

Private Sub Check_bujursangkar_Click()
If Check_bujursangkar.Value = Checked Then
Text19.Visible = True
Text20.Visible = True
Text21.Visible = True
```

```
Text22.Visible = True
Text36.Visible = True
Label57.Visible = True
Label58.Visible = True
Label59.Visible = True
Label60.Visible = True
Label76.Visible = True
Label37.Visible = True
Label39.Visible = True
Label23.Visible = True
Label24.Visible = True
Label72.Visible = True

ElseIf Check_bujursangkar.Value = Unchecked Then
Text19.Visible = False
Text20.Visible = False
Text21.Visible = False
Text22.Visible = False
Text36.Visible = False
Label57.Visible = False
Label58.Visible = False
Label59.Visible = False
Label60.Visible = False
Label76.Visible = False
Label37.Visible = False
Label39.Visible = False
```

```
Label23.Visible = False
Label24.Visible = False
Label72.Visible = False
End If
End Sub

Private Sub Check_lingkaran_Click()
If Check_lingkaran.Value = Checked Then
Text15.Visible = True
Text16.Visible = True
Text17.Visible = True
Text18.Visible = True
Text37.Visible = True
Label61.Visible = True
Label62.Visible = True
Label63.Visible = True
Label64.Visible = True
Label77.Visible = True
Label45.Visible = True
Label46.Visible = True
Label47.Visible = True
Label48.Visible = True
Label73.Visible = True
ElseIf Check_lingkaran.Value = Unchecked Then
Text15.Visible = False
Text16.Visible = False
```

```
Text17.Visible = False
Text18.Visible = False
Text37.Visible = False
Label61.Visible = False
Label62.Visible = False
Label63.Visible = False
Label64.Visible = False
Label77.Visible = False
Label45.Visible = False
Label46.Visible = False
Label47.Visible = False
Label48.Visible = False
Label73.Visible = False
End If
End Sub

Private Sub Check_memanjang_Click()
If Check_memanjang.Value = Checked Then
Text9.Visible = True
Text10.Visible = True
Text11.Visible = True
Text12.Visible = True
Text35.Visible = True
Label41.Visible = True
Label42.Visible = True
Label51.Visible = True
```

```
Label52.Visible = True
Label75.Visible = True
Label19.Visible = True
Label20.Visible = True
Label21.Visible = True
Label22.Visible = True
Label71.Visible = True
ElseIf Check_memanjang.Value = Unchecked Then
Text9.Visible = False
Text10.Visible = False
Text11.Visible = False
Text12.Visible = False
Text35.Visible = False
Label41.Visible = False
Label42.Visible = False
Label51.Visible = False
Label52.Visible = False
Label75.Visible = False
Label19.Visible = False
Label20.Visible = False
Label21.Visible = False
Label22.Visible = False
Label71.Visible = False
End If
End Sub
```

```
Private Sub Check_PEM_Click()
If Check_PEM.Value = Checked Then
Text23.Visible = True
Text24.Visible = True
Text25.Visible = True
Text26.Visible = True
Text38.Visible = True
Label65.Visible = True
Label66.Visible = True
Label67.Visible = True
Label68.Visible = True
Label78.Visible = True
Label25.Visible = True
Label26.Visible = True
Label27.Visible = True
Label28.Visible = True
Label74.Visible = True
'==
Label8.Visible = True
Text7.Visible = True
Text7.Text = ""
Label14.Visible = True
ElseIf Check_PEM.Value = Unchecked Then
Text23.Visible = False
Text24.Visible = False
Text25.Visible = False
```

```
Text26.Visible = False
Text38.Visible = False
Label65.Visible = False
Label66.Visible = False
Label67.Visible = False
Label68.Visible = False
Label78.Visible = False
Label25.Visible = False
Label26.Visible = False
Label27.Visible = False
Label28.Visible = False
Label74.Visible = False
'==
Label8.Visible = False
Text7.Visible = False
Text7.Text = 1.329619
Label14.Visible = False
End If
End Sub

Private Sub Check2_Click()
If Check2.Value = Checked Then
Text31.Enabled = True
pic_lap2.Visible = True
ElseIf Check2.Value = Unchecked Then
Text31.Enabled = False
```

```
pic_lap2.Visible = False
End If
End Sub

Private Sub Check3_Click()
If Check3.Value = Checked Then
Text8.Visible = True
Label16.Visible = True
Label9.Visible = True
btn_analisaMAT.Visible = True
btn_analisa.Visible = False
Text39.Visible = True
Text40.Visible = True
Image5.Visible = True
Image6.Visible = True
ElseIf Check3.Value = Unchecked Then
Text8.Text = "0"
Text8.Visible = False
Label16.Visible = False
Label9.Visible = False
btn_analisa.Visible = True
btn_analisaMAT.Visible = False
Text39.Text = "0"
Text39.Visible = False
Text40.Text = "0"
Text40.Visible = False
```

```
Image5.Visible = False
Image6.Visible = False
End If
End Sub

Private Sub Combo1_Click()
If Combo1.Text = "Abu-abu" Then
pic_lap1.FillColor = &HC0C0C0
ElseIf Combo1.Text = "Merah" Then
pic_lap1.FillColor = &H8080FF
ElseIf Combo1.Text = "Hijau" Then
pic_lap1.FillColor = &H80FF80
ElseIf Combo1.Text = "Kuning" Then
pic_lap1.FillColor = &H80FFFF
ElseIf Combo1.Text = "Ungu" Then
pic_lap1.FillColor = &HFF80FF
ElseIf Combo1.Text = "Biru Muda" Then
pic_lap1.FillColor = &HFFFF80
End If
End Sub

Private Sub Combo2_Click()
If Combo2.Text = "Abu-abu" Then
pic_lap2.FillColor = &HC0C0C0
ElseIf Combo2.Text = "Merah" Then
pic_lap2.FillColor = &H8080FF
```

```
ElseIf Combo2.Text = "Hijau" Then
pic_lap2.FillColor = &H80FF80
ElseIf Combo2.Text = "Kuning" Then
pic_lap2.FillColor = &H80FFFF
ElseIf Combo2.Text = "Ungu" Then
pic_lap2.FillColor = &HFF80FF
ElseIf Combo2.Text = "Biru Muda" Then
pic_lap2.FillColor = &HFFFF80
End If
End Sub

Private Sub Command1_Click()
On Error GoTo eror
Dim df As Single
pic_pondasiA.Visible = True
pic_pondasiB.Visible = True
df = Text13.Text
ab = df * 1200
pondasiA = 255 + ab
pondasiB = 3120 + ab
pic_pondasiA.Height = pondasiA
pic_pondasiB.Top = pondasiB
'===tanah lap 1
Dim delta1  As Single
delta1 = Text32.Text
ab1 = delta1 * 1203.75
```

```
pic_lap1.Height = 0 + ab1

Label69.Visible = True

Label69.Caption = Text14.Text

Label69.Top = ab1 - 800

'====tanah lap 2

Dim delta2  As Single

delta2 = Text33.Text

ab2 = delta2 * 1203.75

pic_lap2.Height = 0 + ab2

Label70.Visible = True

Label70.Caption = Text31.Text

Label70.Top = ab2 - 800

If Text33.Text <= Text32.Text Then

MsgBox "Nilai tanah lapisan 2 tidak boleh kurang dari sebelumnya", vbExclamation,
"Kesalahan memasukkan DATA !"

End If

'=====

If df < Text32.Text Then


Label38.Caption = "Pondasi berada di tanah lapisan 1. "

ElseIf df = Text32.Text Then

Label38.Caption = "Pondasi berada tepat di permukaan tanah lapisan 2. "

ElseIf df > Text32.Text Then

Label38.Caption = "Pondasi berada di tanah lapisan 2. "

End If

Exit Sub

eror:
```

```
MsgBox "Untuk menampilkan posisi pondasi, pengisian kedalaman lapisan tanah harus angka numerik!", vbExclamation, "ADA KESALAHAN!"

End Sub


Private Sub Command2_Click()

Form1.Enabled = True

Unload Me

End Sub


Private Sub btn_analisaMAT_Click()

On Error GoTo eror

'simbol

SG = Text1.Text

c = Text2.Text

df = Text13.Text

BVB = Text4.Text

BVJ = Text5.Text

B = Text6.Text

L = Text7.Text

Dw = Text8.Text

Fk = Text34.Text

Z = Dw - df

'-------------------------------------------------------------------------------------

'mencair nilai Nq

e = 2.718281828

N1 = (45 + (SG / 2))

N2 = 2 * Math.Cos(N1 * (22 / 7) / 180) ^ 2
```

```
N3 = Math.Tan(SG * (22 / 7) / 180)

N4 = e ^ (2 * (22 / 7) * (0.75 - (SG / 360)) * N3)

N5 = 2 * Math.Cos(N1 * (22 / 7) / 180) ^ 2

Nq = N4 / N5

'mencari nilai Nc

Nc = (Nq - 1) / N3

'mencari nilai Ng

Ng = (2 * (Nq + 1) * Math.Tan(SG * (22 / 7) / 180)) / (1 + 0.4 * Math.Sin(4 * SG * (22 /
7) / 180))

'Keruntuhan geser lokal

'mencair nilai Nq'

e = 2.718281828

c1 = (2 / 3) * c

sg1 = Math.Atn((2 / 3) * (Math.Tan(SG * (22 / 7) / 180))) * 180 / (22 / 7)

NL1 = (45 + (sg1 / 2))

NL2 = 2 * Math.Cos(NL1 * (22 / 7) / 180) ^ 2

NL3 = Math.Tan(sg1 * (22 / 7) / 180)

NL4 = e ^ (2 * (22 / 7) * (0.75 - (sg1 / 360)) * NL3)

NL5 = 2 * Math.Cos(NL1 * (22 / 7) / 180) ^ 2

NqL = NL4 / NL5

'mencari nilai Nc'

NcL = (NqL - 1) / NL3

'mencari nilai Ng'

NgL = (2 * (NqL + 1) * Math.Tan(sg1 * (22 / 7) / 180)) / (1 + 0.4 * Math.Sin(4 * sg1 *
(22 / 7) / 180))
```

```
'nilai Dw (muka air tanah)

'Dw diatas Df

po1 = ((BVJ - 1) * (df - Dw)) + (Dw * BVB)

'Dw = Df

po2 = df * BVB

'Dw dibawah Df (dengan syarat z lebih dari B atau jarak antara muka air tanah terhadap kedalaman pondasi)

Grt = (BVJ - 1) + (Z / B) * (BVB - (BVJ - 1))

g1 = BVJ - 1

Text39.Text = g1

'jika muka air tanah terletak pada kedalaman z di bawah dasar pondasi (z<B), gamma yang digunakan adalah

If Z <= B Then

'digunakan gamma rata-rata

gbwh = (BVJ - 1) + (Z / B) * (BVB - (BVJ - 1))

Text40.Text = gbwh

End If

'-------------------------------------------------------------------

'Dw di atas Df

'-------------------------------------------------------------------

'PONDASI memanjang (homogen)

'keruntuhan geser umum

'mencari nilai qu:

AquM = (c * Nc) + (po1 * Nq) + (0.5 * g1 * B * Ng)


'mencari nilai qun:

AqunM = (c * Nc) + (po1 * (Nq - 1)) + (0.5 * g1 * B * Ng)
```

```
'keruntuhan geser lokal

'mencari nilai qu':

AquLM = (c1 * NcL) + (po1 * NqL) + (0.5 * g1 * B * NgL)


'mencari nilai qun':

AqunLM = (c1 * NcL) + (po1 * (NqL - 1)) + (0.5 * g1 * B * NgL)

'-------------------------------------------------------------------------------

'PONDASI BUJUR-SANGKAR(homogen)

'keruntuhan geser umum

'qu :

AquBS = (1.3 * c * Nc) + (po1 * Nq) + (0.4 * g1 * B * Ng)

'qun :

AqunBS = (1.3 * c * Nc) + (po1 * (Nq - 1)) + (0.4 * g1 * B * Ng)


'keruntuhan geser lokal

'qu':

AquLBS = (1.3 * c1 * NcL) + (po1 * NqL) + (0.4 * g1 * B * NgL)

'qun':

AqunLBS = (1.3 * c1 * NcL) + (po1 * (NqL - 1)) + (0.4 * g1 * B * NgL)

'-------------------------------------------------------------------------------

'PONDASI PERSEGI EMPAT MEMANJANG (homogen)

'Keruntuhan geser umum

'qu:

AquPEM = (c * Nc * (1 + 0.3 * (B / L))) + (po1 * Nq) + (0.5 * g1 * B * Ng * (1 - 0.2 *
(B / L)))

'qun:
```

```
AqunPEM = (c * Nc * (1 + 0.3 * (B / L))) + (po1 * (Nq - 1)) + (0.5 * g1 * B * Ng * (1 - 0.2 * (B / L)))


'Keruntuhan geser lokal

'qu':

AquLPEM = (c1 * NcL * (1 + 0.3 * (B / L))) + (po1 * NqL) + (0.5 * g1 * B * NgL * (1 - 0.2 * (B / L)))

'qun':

AqunLPEM = (c1 * NcL * (1 + 0.3 * (B / L))) + (po1 * (NqL - 1)) + (0.5 * g1 * B * NgL * (1 - 0.2 * (B / L)))

'-------------------------------------------------------------------------------

'PONDASI LINGKARAN (homogen)

'Keruntuhan geser umum

'qu:

AquLKN = (1.3 * c * Nc) + (po1 * Nq) + (0.3 * g1 * B * Ng)

'qun:

AqunLKN = (1.3 * c * Nc) + (po1 * (Nq - 1)) + (0.3 * g1 * B * Ng)


'Keruntuhan geser lokal

'qu':

AquLLKN = (1.3 * c1 * NcL) + (po1 * NqL) + (0.3 * g1 * B * NgL)

'qun':

AqunLLKN = (1.3 * c1 * NcL) + (po1 * (NqL - 1)) + (0.3 * g1 * B * NgL)

'-------------------------------------------------------------------------------

'Dw di bawah Df

'-------------------------------------------------------------------------------

'PONDASI MEMANJANG
```

```
'keruntuhan geser umum

'qu:

BquM = (c * Nc) + (po2 * Nq) + (0.5 * gbwh * B * Ng)

'qun:

BqunM = (c * Nc) + (po2 * (Nq - 1)) + (0.5 * gbwh * B * Ng)


'Keruntuhan geser lokal

'qu':

BquLM = (c1 * NcL) + (po2 * NqL) + (0.5 * gbwh * B * NgL)

'qu':

BqunLM = (c1 * NcL) + (po2 * (NqL - 1)) + (0.5 * gbwh * B * NgL)

'PONDASI BUJUR-SANGKAR----------------------------------------------------------------
-

'Keruntuhan geser umum

'qu:

BquBS = (1.3 * c * Nc) + (po2 * Nq) + (0.4 * gbwh * B * Ng)

'qun :

BqunBS = (1.3 * c * Nc) + (po2 * (Nq - 1)) + (0.4 * gbwh * B * Ng)


'Keruntuhan geser lokal

'qu':

BquLBS = (1.3 * c1 * NcL) + (po2 * NqL) + (0.4 * gbwh * B * NgL)

'qun':

BqunLBS = (1.3 * c1 * NcL) + (po2 * (NqL - 1)) + (0.4 * gbwh * B * NgL)

'PONDASI PERSEGI EMPAT MEMANJANG-------------------------------------------------
---------

'Keruntuhan geser umum
```

```
'qu:

BquPEM = (c * Nc * (1 + 0.3 * (B / L))) + (po2 * Nq) + (0.5 * gbwh * B * Ng * (1 - 0.2 * (B / L)))

'qun:

BqunPEM = (c * Nc * (1 + 0.3 * (B / L))) + (po2 * (Nq - 1)) + (0.5 * gbwh * B * Ng * (1 - 0.2 * (B / L)))


'Keruntuhan geser lokal

'qu':

BquLPEM = (c1 * NcL * (1 + 0.3 * (B / L))) + (po2 * NqL) + (0.5 * gbwh * B * NgL * (1 - 0.2 * (B / L)))

'qun':

BqunLPEM = (c1 * NcL * (1 + 0.3 * (B / L))) + (po2 * (NqL - 1)) + (0.5 * gbwh * B * NgL * (1 - 0.2 * (B / L)))

'PONDASI LINGKARAN----------------------------------------------------------------------

'Keruntuhan geser umum

'qu:

BquLKN = (1.3 * c * Nc) + (po2 * Nq) + (0.3 * gbwh * B * Ng)

'qun:

BqunLKN = (1.3 * c * Nc) + (po2 * (Nq - 1)) + (0.3 * gbwh * B * Ng)


'Keruntuhan geser lokal

'qu':

BquLLKN = (1.3 * c1 * NcL) + (po2 * NqL) + (0.3 * gbwh * B * NgL)

'qun':

BqunLLKN = (1.3 * c1 * NcL) + (po2 * (NqL - 1)) + (0.3 * gbwh * B * NgL)

'-------------------------------------------------------------------------------

'Dw tepat pada posisi / sama Df
```

```
'-------------------------------------------------------------------------------

'PONDASI MEMANJANG

'keruntuhan geser umum

'qu:

TquM = (c * Nc) + (po2 * Nq) + (0.5 * g1 * B * Ng)

'qun:

TqunM = (c * Nc) + (po2 * (Nq - 1)) + (0.5 * g1 * B * Ng)


'Keruntuhan geser lokal

'qu':

TquLM = (c1 * NcL) + (po2 * NqL) + (0.5 * g1 * B * NgL)

'qun':

TqunLM = (c1 * NcL) + (po2 * (NqL - 1)) + (0.5 * g1 * B * NgL)

'PONDASI BUJUR-SANGKAR-------------------------------------------------------------------
-

'Keruntuhan geser umum

'qu:

TquBS = (1.3 * c * Nc) + (po2 * Nq) + (0.4 * g1 * B * Ng)

'qun :

TqunBS = (1.3 * c * Nc) + (po2 * (Nq - 1)) + (0.4 * g1 * B * Ng)


'Keruntuhan geser lokal

'qu':

TquLBS = (1.3 * c1 * NcL) + (po2 * NqL) + (0.4 * g1 * B * NgL)

'qun':

TqunLBS = (1.3 * c1 * NcL) + (po2 * (NqL - 1)) + (0.4 * g1 * B * NgL)
```

```
'PONDASI PERSEGI EMPAT MEMANJANG----------

'Keruntuhan geser umum

'qu:

TquPEM = (c * Nc * (1 + 0.3 * (B / L))) + (po2 * Nq) + (0.5 * g1 * B * Ng * (1 - 0.2 * (B / L)))

'qun:

TqunPEM = (c * Nc * (1 + 0.3 * (B / L))) + (po2 * (Nq - 1)) + (0.5 * g1 * B * Ng * (1 - 0.2 * (B / L)))


'Keruntuhan geser lokal

'qu':

TquLPEM = (c1 * NcL * (1 + 0.3 * (B / L))) + (po2 * NqL) + (0.5 * g1 * B * NgL * (1 - 0.2 * (B / L)))

'qun':

TqunLPEM = (c1 * NcL * (1 + 0.3 * (B / L))) + (po2 * (NqL - 1)) + (0.5 * g1 * B * NgL * (1 - 0.2 * (B / L)))

'PONDASI LINGKARAN----------

'Keruntuhan geser umum

'qu:

TquLKN = (1.3 * c * Nc) + (po2 * Nq) + (0.3 * g1 * B * Ng)

'qun:

TqunLKN = (1.3 * c * Nc) + (po2 * (Nq - 1)) + (0.3 * g1 * B * Ng)


'Keruntuhan geser lokal

'qu':

TquLLKN = (1.3 * c1 * NcL) + (po2 * NqL) + (0.3 * g1 * B * NgL)
```

```
'qun':
TqunLLKN = (1.3 * c1 * NcL) + (po2 * (NqL - 1)) + (0.3 * g1 * B * NgL)

If Dw < df Then

Label18.Caption = "Dw berada di atas Df"
Text9.Text = AquM
Text10.Text = AqunM
Text11.Text = AquLM
Text12.Text = AqunLM
Text35.Text = AquM / Fk

Text19.Text = AquBS
Text20.Text = AqunBS
Text21.Text = AquLBS
Text22.Text = AqunLBS
Text36.Text = AquBS / Fk

Text15.Text = AquLKN
Text16.Text = AqunLKN
Text17.Text = AquLLKN
Text18.Text = AqunLLKN
Text37.Text = AquLKN / Fk

Text23.Text = AquPEM
Text24.Text = AqunPEM
```

```
Text25.Text = AquLPEM

Text26.Text = AqunLPEM

Text38.Text = AquPEM / Fk


MsgBox "Beban maksimum persatuan luas tanah dapat menopang beban (Pondasi
Memanjang)" & Chr(10) & "qu : " & Text9.Text & Chr(10) & " qun : " & Text10.Text &
Chr(10) & "qu' : " & Text11.Text & Chr(10) & "qun' : " & Text12.Text & Chr(10) &
"Apakah benar hasil beban maksimum tersebut?", vbYesNo + vbInformation, "Hasil qu,
Dw berada di atas Df"


End If


If Dw = df Then

Label18.Caption = "Dw berada tepat atau sama dengan Df"


Text9.Text = TquM

Text10.Text = TqunM

Text11.Text = TquLM

Text12.Text = TqunLM


Text19.Text = TquBS

Text20.Text = TqunBS

Text21.Text = TquLBS

Text22.Text = TqunLBS


Text15.Text = TquLKN

Text16.Text = TqunLKN

Text17.Text = TquLLKN
```

```
Text18.Text = TqunLLKN


Text23.Text = TquPEM

Text24.Text = TqunPEM

Text25.Text = TquLPEM

Text26.Text = TqunLPEM


Text35.Text = TquM / Fk

Text36.Text = TquBS / Fk

Text37.Text = TquLKN / Fk

Text38.Text = TquPEM / Fk

MsgBox "Beban maksimum persatuan luas tanah dapat menopang beban (Pondasi
Memanjang)" & Chr(10) & "qu : " & Text9.Text & Chr(10) & " qun : " & Text10.Text &
Chr(10) & "qu' : " & Text11.Text & Chr(10) & "qun' : " & Text12.Text & Chr(10) &
"Apakah benar hasil beban maksimum tersebut?", vbYesNo + vbInformation, "Hasil qu,
Dw berada tepat atau sama dengan Df"

End If

If Dw > df Then

Label18.Caption = "Dw berada di bawah Df"


Text9.Text = BquM

Text10.Text = BqunM

Text11.Text = BquLM

Text12.Text = BqunLM


Text19.Text = BquBS

Text20.Text = BqunBS

Text21.Text = BquLBS
```

```
Text22.Text = BqunLBS


Text15.Text = BquLKN

Text16.Text = BqunLKN

Text17.Text = BquLLKN

Text18.Text = BqunLLKN


Text23.Text = BquPEM

Text24.Text = BqunPEM

Text25.Text = BquLPEM

Text26.Text = BqunLPEM


Text35.Text = BquM / Fk

Text36.Text = BquBS / Fk

Text37.Text = BquLKN / Fk

Text38.Text = BquPEM / Fk

MsgBox "Beban maksimum persatuan luas tanah dapat menopang beban (Pondasi
Memanjang)" & Chr(10) & "qu : " & Text9.Text & Chr(10) & " qun : " & Text10.Text &
Chr(10) & "qu' : " & Text11.Text & Chr(10) & "qun' : " & Text12.Text & Chr(10) &
"Apakah benar hasil beban maksimum tersebut?", vbYesNo + vbInformation, "Hasil qu,
Dw berada di bawah Df"

End If

Text27.Text = Nq

Text28.Text = Nc

Text29.Text = Ng

'======

Picture1.Refresh

X1 = 0
```

```
Y1 = Text8.Text

X2 = 6300

Y2 = Text8.Text

Picture1.Line (X1, Y1 * 1203.8)-(X2, Y2 * 1203.8), vbBlue

Exit Sub

eror:

MsgBox "Ada kesalahan dalam pengisian data anda", vbInformation, "Kesalahan dalam
memasukkan data"

End Sub


Private Sub Command3_Click()

If Command3.Caption = "Ganti Kode" Then

Command3.Caption = "OK"

Text3.Enabled = True


Else

Adodc1.Recordset.Filter = "id_titik ='" & Text3.Text & "' AND id_proyek ='" &
Text30.Text & "' "

Adodc2.Recordset.Filter = "id_titik ='" & Text3.Text & "' AND id_proyek ='" &
Text30.Text & "' "


Text3.Enabled = False

Command3.Caption = "Ganti Kode"

End If

End Sub


Private Sub Command4_Click()
```

```
FrmEdit.Show

End Sub


Private Sub Form_Load()

Call koneksi


Text30.Text = Form1.Text6.Text

Label40.Caption = Form1.Text1.Text

Adodc1.Recordset.Filter = "id_titik ='" & Text3.Text & "' AND id_proyek ='" &
Text30.Text & "' "

Adodc2.Recordset.Filter = "id_titik ='" & Text3.Text & "' AND id_proyek ='" &
Text30.Text & "' "

Combo1.AddItem "Abu-abu"

Combo1.AddItem "Merah"

Combo1.AddItem "Hijau"

Combo1.AddItem "Kuning"

Combo1.AddItem "Ungu"

Combo1.AddItem "Biru Muda"

Combo2.AddItem "Abu-abu"

Combo2.AddItem "Merah"

Combo2.AddItem "Hijau"

Combo2.AddItem "Kuning"

Combo2.AddItem "Ungu"

Combo2.AddItem "Biru Muda"

End Sub
```

Lampiran 3

Kode List Program UJI CPT

```
Dim db As ADODB.Connection
Dim rs As ADODB.Recordset
Dim SkalaX, SkalaY As Integer

Sub koneksi()
Set db = New ADODB.Connection
db.CursorLocation = adUseClient
db.Open "proyek_ta"
End Sub
Sub kolom()

DataGrid1.Columns(0).Caption = "Kedalaman (m)"
DataGrid1.Columns(0).Width = "1500"
DataGrid1.Columns(1).Caption = "Conus (kg/cm2)"
DataGrid1.Columns(1).Width = "1500"
DataGrid1.Columns(2).Caption = "Conus + Cleeve (kg/cm2)"
DataGrid1.Columns(2).Width = "2000"
DataGrid1.Columns(3).Caption = "Keterangan Tanah"
DataGrid1.Columns(3).Width = "2000"

End Sub

Private Sub btn_baru_Click()
```

```
Adodc2.Recordset.AddNew

Adodc2.Recordset.Fields("id_proyek") = Text3.Text

Adodc2.Recordset.Fields("id_titik") = Text1.Text

Adodc2.Recordset.Fields("kedalaman_p") = 0

Adodc2.Recordset.Fields("panjang_p") = 0

Adodc2.Recordset.Fields("lebar_p") = 0

Adodc2.Recordset.Fields("kedalaman_maks") = 0

Adodc2.Recordset.Fields("kedalaman_interval") = 0.2

Combo1.Enabled = True

Adodc1.Recordset.Filter = "id_titik ='" & Text1.Text & "' AND id_proyek ='" &
Text3.Text & "' "

Adodc2.Recordset.Filter = "id_titik ='" & Text1.Text & "' AND id_proyek ='" &
Text3.Text & "' "

End Sub


Private Sub btn_hapus_Click()

Dim sql As String

Dim pesan As Integer

pesan = MsgBox("Anda yakin menghapus data tersebut?", vbInformation + vbYesNo,
"Hapus Data !")

If pesan = vbYes Then

On Error Resume Next

sql = "DELETE FROM tabel_cpt WHERE id_titik ='" & Text1.Text & "' AND id_proyek
='" & Text3.Text & "' "

db.Execute (sql)

Adodc2.Recordset.Delete

Combo1.Text = ""

Combo14.Text = ""
```

```
Text5.Text = ""

Combo4.Text = ""

End If

Call tampilan

Call kolom

End Sub


Private Sub btn_kembali_Click()

Form1.Enabled = True

Unload Me

End Sub

Private Sub btn_OK2_Click()

Dim sql As String

If Text9.Text < Text6.Text Then

MsgBox "Nilai tidak boleh kurang dari sebelumnya", vbExclamation, "Kesalahan"

Else

Set rs = New Recordset

sql = "UPDATE tabel_cpt SET ket_tanah ='" & Text4.Text & "' WHERE id_titik ='" &
Text1.Text & "' AND id_proyek ='" & Text3.Text & "' AND Kedalaman >='" &
Text6.Text & "' AND Kedalaman <='" & Text9.Text & "' "


Set rs = db.Execute(sql)

Set DataGrid1.DataSource = rs

Adodc1.Refresh

Set DataGrid1.DataSource = Adodc1

Adodc1.Recordset.Filter = "id_titik ='" & Text1.Text & "' AND id_proyek ='" &
Text3.Text & "' "
```

```
Adodc2.Recordset.Filter = "id_titik ='" & Text1.Text & "' AND id_proyek ='" &
Text3.Text & "' "

End If

Call tampilan

Call kolom

End Sub


Private Sub btn_print_Click()

Dim sql As String

FrmPrintCPT.Show

FrmPrintCPT.CurrentX = 2200

FrmPrintCPT.CurrentY = 400

FrmPrintCPT.FontSize = FormUjiCPT.FontSize

FrmPrintCPT.Print FormUjiCPT.Caption

FrmPrintCPT.CurrentX = 1000

FrmPrintCPT.Print "------------------------------------------------------------------------------
----------------"

FrmPrintCPT.CurrentX = 2200

FrmPrintCPT.FontSize = 14

FrmPrintCPT.Print Label24.Caption

FrmPrintCPT.Print ""

FrmPrintCPT.FontName = "arial"

FrmPrintCPT.FontSize = 10

FrmPrintCPT.CurrentX = 1000

FrmPrintCPT.Print Label1.Caption & vbTab & vbTab & Text1.Text

FrmPrintCPT.FontName = "arial"

FrmPrintCPT.FontSize = 10
```

```
FrmPrintCPT.CurrentX = 1000

FrmPrintCPT.Print Label25.Caption & vbTab & vbTab & Combo1.Text & "  (m)"

FrmPrintCPT.FontName = "arial"

FrmPrintCPT.FontSize = 10

FrmPrintCPT.CurrentX = 1000

FrmPrintCPT.Print Label27.Caption & vbTab & vbTab & vbTab & Combo14.Text & "
(m)"

FrmPrintCPT.FontName = "arial"

FrmPrintCPT.FontSize = 10

FrmPrintCPT.CurrentX = 1000

FrmPrintCPT.Print Label29.Caption & vbTab & vbTab & Text5.Text & "  (m)"

FrmPrintCPT.FontName = "arial"

FrmPrintCPT.FontSize = 10

FrmPrintCPT.CurrentX = 1000

FrmPrintCPT.Print Label28.Caption & vbTab & vbTab & vbTab & Combo4.Text & "
(m)"

FrmPrintCPT.FontName = "arial"

FrmPrintCPT.FontSize = 10

FrmPrintCPT.CurrentX = 1000

FrmPrintCPT.Print "Daya Dukung (qa):" & vbTab & vbTab & Text8.Text & "  (kg/cm2)"

FrmPrintCPT.Print ""

FrmPrintCPT.CurrentX = 1600

FrmPrintCPT.Print "Kedalaman (m)" & vbTab & "Conus (kg/cm2)"

'

Set rs = New ADODB.Recordset

sql = "SELECT Kedalaman, Conus FROM tabel_cpt WHERE id_titik ='" & Text1.Text
& "' AND id_proyek ='" & Text3.Text & "'"
```

```
rs.Open (sql), db, adOpenDynamic, adLockOptimistic
Do Until rs.EOF
   'Debug.Print rs.Fields("Conus").Value
   X1 = rs.Fields("Kedalaman").Value
   Y1 = rs.Fields("Conus").Value
   rs.MoveNext
'
FrmPrintCPT.CurrentX = 2200
FrmPrintCPT.Print X1 & vbTab & vbTab & vbTab & Y1
Loop
FrmPrintCPT.CurrentX = 1000
FrmPrintCPT.Print "------------------------------------------------------------------------------"
FrmPrintCPT.CurrentX = 1200
FrmPrintCPT.FontName = "Comic Sans MS"
FrmPrintCPT.FontSize = 10
FrmPrintCPT.Print "printed at : " & Date
End Sub

Private Sub Check1_Click()
If Check1.Value = Checked Then
Combo4.Text = 0
Combo4.Visible = False
Else
Combo4.Text = ""
Combo4.Visible = True
End If
```

```
End Sub


Private Sub Combo1_Click()
Text2.Text = 0
btn_edit.Enabled = True
btn_OK.Enabled = True
End Sub


Private Sub Command1_Click()
If Command1.Caption = "Ganti kode" Then
Command1.Caption = "OK"
Text1.Enabled = True



Else
Adodc1.Recordset.Filter = "id_titik ='" & Text1.Text & "' AND id_proyek ='" &
Text3.Text & "' "
Adodc2.Recordset.Filter = "id_titik ='" & Text1.Text & "' AND id_proyek ='" &
Text3.Text & "' "


Text1.Enabled = False
Call tampilan
Call kolom
Command1.Caption = "Ganti kode"
End If


End Sub
```

```
Private Sub btn_edit_Click()
If btn_edit.Caption = "Edit Data" Then
btn_edit.Caption = "Simpan"
DataGrid1.AllowUpdate = True
btn_hapus.Enabled = True
Else
On Error Resume Next
Adodc1.Recordset.Update
Adodc2.Recordset.Update
btn_hapus.Enabled = False
DataGrid1.AllowUpdate = False
btn_edit.Caption = "Edit Data"
MsgBox "Data telah diperbaharui", vbInformation, "Data CPT"
End If

End Sub

Private Sub btn_OK_Click()
Dim awal As Integer
Dim akhir As Integer
awal = Text2.Text

Do While Text2.Text <= Combo1.Text
Adodc1.Recordset.AddNew
Adodc1.Recordset.Fields("id_proyek") = Text3.Text
Adodc1.Recordset.Fields("id_titik") = Text1.Text
```

```
Adodc1.Recordset.Fields("Kedalaman") = Text2.Text

Adodc1.Recordset.Fields("Conus") = 0

Adodc1.Recordset.Fields("ConusCleeve") = 0

Adodc1.Recordset.Fields("ket_tanah") = None


Text2.Text = Text2.Text + 0.2

Loop

Set DataGrid1.DataSource = Adodc1.Recordset

Adodc1.Recordset.Filter = "id_titik ='" & Text1.Text & "' AND id_proyek ='" &
Text3.Text & "' "

Adodc2.Recordset.Filter = "id_titik ='" & Text1.Text & "' AND id_proyek ='" &
Text3.Text & "' "


Call tampilan

Call kolom

End Sub


Private Sub btn_analisa_Click()

Dim sql As String

Dim B As Single

Dim qa As Single

Dim az1, az2 As Currency

Call koneksi

On Error GoTo eror

az1 = Text5.Text

az2 = Combo4.Text

If Combo4.Text = "" Then
```

```
MsgBox "Lebar (B) tidak boleh kosong", vbExclamation, "Kesalahan"

Else

Combo3.Text = az1 + az2


Set rs = New Recordset

sql = "SELECT AVG(Conus) FROM tabel_cpt WHERE id_titik ='" & Text1.Text & "' AND id_proyek ='" & Text3.Text & "' AND Kedalaman >='" & Text5.Text & "' AND Kedalaman <='" & Combo3.Text & "' "

Set rs = db.Execute(sql)

Text7.Text = rs.Fields("AVG(Conus)")


qc = Text7.Text

B = Combo4.Text


If B <= 1.2 Then

'Pondasi bujur sangkar atau memanjang, B <= 1,2 m

qa1 = qc / 30

Text8.Text = qa1

ElseIf B > 1.2 Then

'Pondasi bujur sangkar atau memanjang, B > 1,2 m

qa2 = (qc / 50) * (1 + (0.3 / B)) ^ 2


Text8.Text = qa2

ElseIf B = 0 Then

'Daya dukung diijinkan secara pendekatan untuk seluruh pondasi dengan mengabaikan lebarnya

qa3 = qc / 40
```

```
Text8.Text = qa3

End If

End If

Exit Sub

eror:

MsgBox "Ada kesalahan dalam pengisian data, periksa kembali data anda",
vbExclamation, "Kesalahan"

End Sub


Private Sub Command5_Click()

On Error GoTo eror

Dim sql As String


Set rs = New Recordset

sql = "SELECT AVG(Conus) FROM tabel_cpt WHERE kode_cpt ='" & Combo14.Text
& "' AND Kedalaman >='" & Text5.Text & "' AND Kedalaman <='" & Combo3.Text &
"' "

Set rs = db.Execute(sql)

Text7.Text = rs.Fields("AVG(Conus)")

Exit Sub

eror:

MsgBox Err.Description

End Sub


Private Sub tampilan()

Dim sql As String

Set rs = New ADODB.Recordset
```

```
sql = "SELECT Kedalaman, Conus, ConusCleeve, ket_tanah FROM tabel_cpt WHERE
id_titik ='" & Text1.Text & "' AND id_proyek ='" & Text3.Text & "' "

rs.Open sql, db, adOpenDynamic, adLockOptimistic

Set DataGrid1.DataSource = rs


End Sub


Private Sub Command6_Click()

On Error GoTo eror

pic_pondasiA.Visible = True

pic_pondasiB.Visible = True


Dim delta  As Single

B = Combo4.Text

delta = Text5.Text

ab = delta * 1200

pondasiA = 375 + ab

pondasiB = 480 + ab

pic_pondasiA.Height = pondasiA

pic_pondasiB.Top = pondasiB


Shape3.Height = 0 + B * SkalaY

Shape3.Top = delta * SkalaY

'===============

Picture1.Refresh

Set rs = New ADODB.Recordset
```

```
sql = "SELECT Kedalaman, Conus FROM tabel_cpt WHERE id_titik ='" & Text1.Text
& "' AND id_proyek ='" & Text3.Text & "'"

rs.Open (sql), db, adOpenDynamic, adLockOptimistic


rs.MoveFirst

Do Until rs.EOF

   X1 = rs.Fields("Conus").Value

   Y1 = rs.Fields("Kedalaman").Value



   rs.MoveNext

   If rs.EOF = False Then

      X2 = rs.Fields("Conus").Value

      Y2 = rs.Fields("Kedalaman").Value

   End If


   Picture1.Line (X1 * SkalaX, Y1 * SkalaY)-(X2 * SkalaX, Y2 * SkalaY), vbRed

Loop

'========

Exit Sub

eror: MsgBox Err.Description

End Sub


Private Sub Form_Load()

Text3.Text = Form1.Text6.Text

Label24.Caption = Form1.Text1.Text
```

```
Call koneksi

Call tampilan

Call kolom

Adodc1.Recordset.Filter = "id_titik ='" & Text1.Text & "' AND id_proyek ='" &
Text3.Text & "' "

Adodc2.Recordset.Filter = "id_titik ='" & Text1.Text & "' AND id_proyek ='" &
Text3.Text & "' "

Combo1.AddItem "0.2"

Combo1.AddItem "0.4"

Combo1.AddItem "0.6"

Combo1.AddItem "0.8"

Combo1.AddItem "1.0"

Combo1.AddItem "1.2"

Combo1.AddItem "1.4"

Combo1.AddItem "1.6"

Combo1.AddItem "1.8"

Combo1.AddItem "2.0"

Combo1.AddItem "2.2"

Combo1.AddItem "2.4"

Combo1.AddItem "2.6"

Combo1.AddItem "2.8"

Combo1.AddItem "3.0"

Combo1.AddItem "3.2"

Combo1.AddItem "3.4"

Combo1.AddItem "3.6"
```

```
Combo1.AddItem "3.8"
Combo1.AddItem "4.0"

'nilai skala dalama menggambar pada VB
SkalaX = 30.3125
SkalaY = 1200
'Titik acuan sumbu Y, sebagai titik nol sumbu Y
End Sub
```

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Lampiran 4

Kode List Program UJI SPT

```
Dim db As ADODB.Connection
Dim rs As ADODB.Recordset
Dim sql As String
Dim SkalaX, SkalaY As Integer

Sub koneksi()
Set db = New ADODB.Connection
db.CursorLocation = adUseClient
db.Open "proyek_ta"
End Sub
Sub kolom()

DataGrid1.Columns(0).Caption = "Kedalaman (m)"
DataGrid1.Columns(0).Width = "1300"
DataGrid1.Columns(1).Caption = "N1"
DataGrid1.Columns(1).Width = "500"
DataGrid1.Columns(2).Caption = "N2"
DataGrid1.Columns(2).Width = "500"
DataGrid1.Columns(3).Caption = "N3"
DataGrid1.Columns(3).Width = "500"
DataGrid1.Columns(4).Caption = "N spt (N2+N3)"
DataGrid1.Columns(4).Width = "1500"
DataGrid1.Columns(5).Caption = "Keterangan Tanah"
```

```
DataGrid1.Columns(5).Width = "2000"


End Sub

Private Sub tampilan()

Set rs = New ADODB.Recordset

sql = "SELECT Kedalaman, N1, N2, N3, N, ket_tanah FROM tabel_spt WHERE id_titik
='" & Text1.Text & "' AND id_proyek ='" & Text3.Text & "' "

rs.Open sql, db, adOpenDynamic, adLockOptimistic

Set DataGrid1.DataSource = rs


End Sub

Private Sub btn_analisa_Click()

Dim sql As String

Dim B As Single

Dim az1, az2 As Currency

Call koneksi

On Error GoTo eror

az1 = Combo11.Text

az2 = Text7.Text

If Combo11.Text = "" Then

MsgBox "Lebar (B) tidak boleh kosong", vbExclamation, "Kesalahan"

Else

Combo14.Text = az1 + az2

End If


Set rs = New Recordset
```

```
sql = "SELECT AVG(N) FROM tabel_spt WHERE id_titik ='" & Text1.Text & "' AND
id_proyek ='" & Text3.Text & "' AND Kedalaman >='" & Text7.Text & "' AND
Kedalaman <='" & Combo14.Text & "' "

Set rs = db.Execute(sql)

Text5.Text = rs.Fields("AVG(N)")


Nrt = Text5.Text

B = Combo11.Text

'Mencari Nilai qa, untuk B jika <= 1,2 m

qa1 = 1.22 * Nrt


'Mencari Nilai qa, untuk B jika > 1,2 m

qa2 = 0.54 * Nrt * ((B + 0.3) / B) ^ 2


If B <= 1.2 Then

Text6.Text = qa1

ElseIf B > 1.2 Then

Text6.Text = qa2

End If

Exit Sub

eror: MsgBox Err.Description

End Sub


Private Sub btn_baru_Click()

Adodc2.Recordset.AddNew

Adodc2.Recordset.Fields("id_proyek") = Text3.Text

Adodc2.Recordset.Fields("id_titik") = Text1.Text
```

```
Adodc2.Recordset.Fields("kedalaman_p") = 0

Adodc2.Recordset.Fields("panjang_p") = 0

Adodc2.Recordset.Fields("lebar_p") = 0

Adodc2.Recordset.Fields("kedalaman_maks") = 0

Adodc2.Recordset.Fields("kedalaman_interval") = 0


Text10.Enabled = True

Combo12.Enabled = True

Adodc1.Recordset.Filter = "id_titik ='" & Text1.Text & "' AND id_proyek ='" &
Text3.Text & "' "

Adodc2.Recordset.Filter = "id_titik ='" & Text1.Text & "' AND id_proyek ='" &
Text3.Text & "' "

End Sub


Private Sub btn_grafik_Click()

Dim delta  As Single

B = Combo11.Text

pic_pondasiA.Visible = True

pic_pondasiB.Visible = True

delta = Text7.Text

ab = delta * 120

pondasiA = 255 + ab

pondasiB = 1080 + ab

pic_pondasiA.Height = pondasiA

pic_pondasiB.Top = pondasiB

Shape3.Height = 0 + B * SkalaY

Shape3.Top = delta * SkalaY
```

```
'========

Picture1.Refresh

Set rs = New ADODB.Recordset

sql = "SELECT Kedalaman, N FROM tabel_spt WHERE id_titik ='" & Text1.Text & "'
AND id_proyek ='" & Text3.Text & "'"

rs.Open (sql), db, adOpenDynamic, adLockOptimistic


rs.MoveFirst

Do Until rs.EOF

   X1 = rs.Fields("N").Value

   Y1 = rs.Fields("Kedalaman").Value



   rs.MoveNext

   If rs.EOF = False Then

      X2 = rs.Fields("N").Value

      Y2 = rs.Fields("Kedalaman").Value

   End If


   Picture1.Line (X1 * SkalaX, Y1 * SkalaY)-(X2 * SkalaX, Y2 * SkalaY), vbBlue

Loop

End Sub


Private Sub btn_hapus_Click()


Dim pesan As Integer
```

```
pesan = MsgBox("Anda yakin menghapus data tersebut?", vbInformation + vbYesNo,
"Hapus Data !")

If pesan = vbYes Then

On Error Resume Next

sql = "DELETE FROM tabel_spt WHERE id_titik ='" & Text1.Text & "' AND id_proyek
='" & Text3.Text & "' "

db.Execute (sql)

Adodc2.Recordset.Delete

Text10.Text = ""

Combo12.Text = ""

Combo11.Text = ""

Text7.Text = ""

End If

Call tampilan

Call kolom

End Sub


Private Sub btn_kembali_Click()

Form1.Enabled = True

Unload Me

End Sub


Private Sub btn_edit_Click()

If btn_edit.Caption = "Edit Data" Then

btn_edit.Caption = "Simpan"

DataGrid1.AllowUpdate = True

btn_hapus.Enabled = True
```

```
Else
On Error Resume Next
Adodc1.Recordset.Update
Adodc2.Recordset.Update
btn_hapus.Enabled = False
DataGrid1.AllowUpdate = False
btn_edit.Caption = "Edit Data"
MsgBox "Data telah diperbaharui", vbInformation, "Data CPT"
End If
End Sub

Private Sub btn_OK_Click()
Dim awal, akhir As Byte

Dim interval As Currency


awal = Text2.Text
akhir = Text10.Text
interval = Combo12.Text
Do While awal <= akhir
Adodc1.Recordset.AddNew
Adodc1.Recordset.Fields("id_proyek") = Text3.Text
Adodc1.Recordset.Fields("id_titik") = Text1.Text
Adodc1.Recordset.Fields("Kedalaman") = awal
Adodc1.Recordset.Fields("N1") = 0
```

```
Adodc1.Recordset.Fields("N2") = 0

Adodc1.Recordset.Fields("N3") = 0

Adodc1.Recordset.Fields("N") = None

Adodc1.Recordset.Fields("ket_tanah") = None


awal = awal + interval

Loop




Set DataGrid1.DataSource = Adodc1.Recordset

Adodc1.Recordset.Filter = "id_titik ='" & Text1.Text & "' AND id_proyek ='" &
Text3.Text & "' "

Call tampilan

Call kolom

End Sub


Private Sub btn_OK2_Click()

Dim sql As String

Set rs = New Recordset

sql = "UPDATE tabel_spt SET ket_tanah ='" & Text4.Text & "' WHERE id_titik ='" &
Text1.Text & "' AND id_proyek ='" & Text3.Text & "' AND Kedalaman >='" &
Text8.Text & "' AND Kedalaman <='" & Text9.Text & "' "


Set rs = db.Execute(sql)

Set DataGrid1.DataSource = rs

Adodc1.Refresh
```

```
Set DataGrid1.DataSource = Adodc1

Adodc1.Recordset.Filter = "id_titik ='" & Text1.Text & "' AND id_proyek ='" &
Text3.Text & "' "


Call tampilan

Call kolom

End Sub


Private Sub btn_print_Click()

Dim sql As String

FrmPrintSPT.Show

FrmPrintSPT.CurrentX = 2200

FrmPrintSPT.CurrentY = 400

FrmPrintSPT.FontSize = FormUjiSPT.FontSize

FrmPrintSPT.Print FormUjiSPT.Caption

FrmPrintSPT.CurrentX = 1000

FrmPrintSPT.Print "------------------------------------------------------------------------
----------------"

FrmPrintSPT.CurrentX = 2200

FrmPrintSPT.FontSize = 14

FrmPrintSPT.Print Label7.Caption

FrmPrintSPT.Print ""

FrmPrintSPT.FontName = "arial"

FrmPrintSPT.FontSize = 10

FrmPrintSPT.CurrentX = 1000

FrmPrintSPT.Print Label1.Caption & vbTab & vbTab & Text1.Text

FrmPrintSPT.FontName = "arial"
```

```
FrmPrintSPT.FontSize = 10

FrmPrintSPT.CurrentX = 1000

FrmPrintSPT.Print Label2.Caption & vbTab & vbTab & Text10.Text & "  (m)"

FrmPrintSPT.FontName = "arial"

FrmPrintSPT.FontSize = 10

FrmPrintSPT.CurrentX = 1000

FrmPrintSPT.Print Label3.Caption & vbTab & vbTab & vbTab & Combo12.Text & "
(m)"

FrmPrintSPT.FontName = "arial"

FrmPrintSPT.FontSize = 10

FrmPrintSPT.CurrentX = 1000

FrmPrintSPT.Print Label4.Caption & vbTab & vbTab & vbTab & Combo11.Text & "
(m)"

FrmPrintSPT.FontName = "arial"

FrmPrintSPT.FontSize = 10

FrmPrintSPT.CurrentX = 1000

FrmPrintSPT.Print Label5.Caption & vbTab & vbTab & Text7.Text & "  (m)"

FrmPrintSPT.FontName = "arial"

FrmPrintSPT.FontSize = 10

FrmPrintSPT.CurrentX = 1000

FrmPrintSPT.Print "Daya Dukung (qa):" & vbTab & vbTab & Text6.Text & "  (t/m2)"

FrmPrintSPT.Print ""

FrmPrintSPT.CurrentX = 1600

FrmPrintSPT.Print "Kedalaman (m)" & vbTab & "    N spt (N2+N3)"

'

Set rs = New ADODB.Recordset
```

```
sql = "SELECT Kedalaman, N FROM tabel_spt WHERE id_titik ='" & Text1.Text & "'
AND id_proyek ='" & Text3.Text & "'"

rs.Open (sql), db, adOpenDynamic, adLockOptimistic

Do Until rs.EOF

   'Debug.Print rs.Fields("Conus").Value

   X1 = rs.Fields("Kedalaman").Value

   Y1 = rs.Fields("N").Value

   rs.MoveNext
'

FrmPrintSPT.CurrentX = 2200

FrmPrintSPT.Print X1 & vbTab & vbTab & vbTab & Y1

Loop

FrmPrintSPT.CurrentX = 1000

FrmPrintSPT.Print "------------------------------------------------------------------------"

FrmPrintSPT.CurrentX = 1200

FrmPrintSPT.FontName = "Comic Sans MS"

FrmPrintSPT.FontSize = 10

FrmPrintSPT.Print "printed at : " & Date

End Sub


Private Sub Command1_Click()

If Command1.Caption = "Ganti kode" Then

Command1.Caption = "OK"

Text1.Enabled = True



Else
```

```
Adodc1.Recordset.Filter = "id_titik ='" & Text1.Text & "' AND id_proyek ='" &
Text3.Text & "' "

Adodc2.Recordset.Filter = "id_titik ='" & Text1.Text & "' AND id_proyek ='" &
Text3.Text & "' "


Text1.Enabled = False

Call tampilan

Call kolom

Command1.Caption = "Ganti kode"

End If

End Sub


Private Sub Command3_Click()

FrmEdit.Show

End Sub


Private Sub Form_Load()

Call koneksi

Call tampilan

Call kolom

Text3.Text = Form1.Text6.Text

Label7.Caption = Form1.Text1.Text

Adodc1.Recordset.Filter = "id_titik ='" & Text1.Text & "' AND id_proyek ='" &
Text3.Text & "' "

Adodc2.Recordset.Filter = "id_titik ='" & Text1.Text & "' AND id_proyek ='" &
Text3.Text & "' "
```

```
Combo11.AddItem "0.5"
Combo11.AddItem "1"
Combo11.AddItem "1.5"
Combo11.AddItem "2"
Combo11.AddItem "2.5"
Combo11.AddItem "3"

Combo12.AddItem "1"
Combo12.AddItem "1.5"
Combo12.AddItem "2"

'nilai skala dalam menggambar pada VB
SkalaX = 60.25
SkalaY = 120.3
'Titik acuan sumbu Y, sebagai titik nol sumbu Y
End Sub
```

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SOEGIJAPRANATA

Lampiran 5

Tabel faktor daya dukung tanah *Terzaghi* (*Donald P. Coduto*)

ø' (deg)	N_c	N_q	N_γ
0	5,7	1,0	0,0
1	6,0	1,1	0,1
2	6,3	1,2	0,1
3	6,6	1,3	0,2
4	7,0	1,5	0,3
5	7,3	1,6	0,4
6	7,7	1,8	0,5
7	8,2	2,0	0,6
8	8,6	2,2	0,7
9	9,1	2,4	0,9
10	9,6	2,7	1,0
11	10,2	3,0	1,2
12	10,8	3,3	1,4
13	11,4	3,6	1,6
14	12,1	4,0	1,9
15	12,9	4,4	2,2
16	13,7	4,9	2,5
17	14,6	5,5	2,9
18	15,5	6,0	3,3
19	16,6	6,7	3,8
20	17,7	7,4	4,4
21	18,9	8,3	5,1
22	20,3	9,2	5,9
23	21,7	10,2	6,8
24	23,4	11,4	7,9
25	25,1	12,7	9,2
26	27,1	14,2	10,7
27	29,2	15,9	12,5
28	31,6	17,8	14,6
29	34,2	20,0	17,1
30	37,2	22,5	20,1
31	40,4	25,3	23,7
32	44,0	28,5	28,0
33	48,1	32,2	33,3
34	52,6	36,5	39,6
35	57,8	41,4	47,3
36	63,5	47,2	56,7
37	70,1	53,8	68,1
38	77,5	61,5	82,3
39	86,0	70,6	99,8
40	95,7	81,3	121,5
41	106,8	93,8	148,5

Sumber : (*Foundation Design, Donald P. Coduto* 2001)