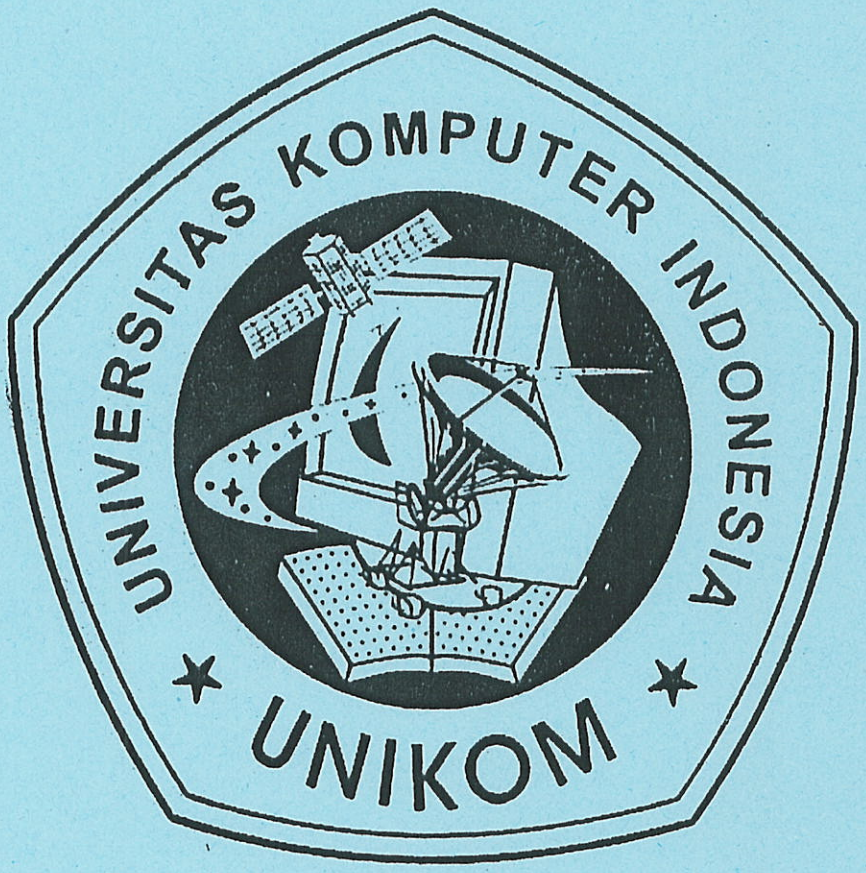
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UNIVERSITAS KOMPUTER INDONESIA
UNIKOM

UNIT PELAKSANA TEKNIS PERPUSTAKAAN
UNIKOM

LAMPIRAN

PT. PLN (PERSERO) J&P UNIT PRODUKSI BANDUNG Jalan Banten Nomor 8 Bandung	SURAT PERINTAH KERJA INTERN Nomor PK/PKP : 30/ME/02/05/00 Tanggal : 2/2/2005	REN-2 Hal. 1/3 Revisi

Pekerjaan : Perbaikan Trafo Distribusi
Dasar Permintaan : 1
Tanggal : 2/2/2005

Pemilik : 1
Alamat :
Telp. :

Rincian Pekerjaan:

No.	Merk	Daya (kVA)	No. Seri
1	2	315	3

	Rencana	Realisasi
A. Biaya Langsung		
1. Material		
Material Utama	3,180,663	
Material Bantu	120,315	
Material Pendukung	0	
2. Jasa		
Upah Pihak Ketiga	0	
Ongkos Angkut	0	
Pengepakan & Bongkar Muat	0	
Sub Total (A)	3,300,978	
B. Biaya Tidak Langsung		
Gaji Pengawas	0	
Gaji Pelaksana	0	
Uang Makan	0	
Uang Lembur	0	
Proses Rewering	0	
Pengujian / Finishing	0	
Sub Total (B)	0	
Sub Jumlah	3,300,978	
PPn 10%		
JUMLAH	3,300,978	
Dibulatkan	3,301,000	

Terbilang:
Tiga Juta Tiga Ratus Satu Ribu Rupiah

Diselesaikan Tanggal

.....
As. Man. Adm & Keu

Firman

Direncanakan
PH. As. Man. Bidang Teknik

Suharto

Menyetujui
Manajer Unit

Ukun Kurnia

Manajer Unit

Ukun Kurnia

PT. PLN (PERSERO) J&P UNIT PRODUKSI BANDUNG Jalan Banten Nomor 8 Bandung	RENCANA ANGGARAN BIAYA Nomor PK/PKP : 30/ME/02/05/00 Tanggal : 2/2/2005	REN-2 Hal. 2/3 Revisi

Pekerjaan : Perbaikan Trafo Distribusi
Merk : 2
Nomor Seri : 3
Pemilik : 1

Surat Permintaan : 1
Daya : 315
Tanggal : 2/2/2005

No.	Nama Barang	Sat.	Rencana			Realisasi			
			Qty	Harga	Jumlah	Kode 7	Jumlah	Kode 3	Jumlah
A.	**BIAYA LANGSUNG**								
I.	Material Utama								
	Kumparan Primer								
1	kawat enamelled	K	130	20,000	2,600,000				
2	katun band polyster 1"	R	1	5,050	5,050				
3	isolasi papier 0,10 mm	K	4	5,100	20,400				
4	isolasi papier 0,50 mm	K	6	5,150	30,900				
5	isolasi papier 1 mm	K	1	5,200	5,200				
6	isolasi papier 2 mm	K	6	5,250	31,500				
7	isolasi slang asbes 2 mm	M	0	5,300	0				
8	isolasi slang asbes 3 mm	M	4	5,350	21,400				
9	isolasi slang asbes 5 mm	M	4	5,400	21,600				
10	vernis sterling	G	0.25	5,450	1,363				
11	lem kertas	Btl	2	10,500	21,000				
	Jumlah				2,758,413				
	Kumparan Sekunder								
1	kawat rectanguler	K	69	5,550	382,950				
2	isolasi papier 1 mm	K	5	5,600	28,000				
3	Isolasi slang asbes 3mm	M	2	5,650	11,300				
	Jumlah				422,250				
1	Minyak Baru	L	0	6,000	0				
	Jumlah Material Utama				3,180,663				
I.	Material Bantu								
	Penggantian Komponen								
1	minyak treatment	L	0	10,750	0				
2	stip primer	B	0	10,800	0				
3	stip sekunder/modifikasi	B	0	10,850	0				
4	paking bola TM	B	0	10,900	0				
5	paking bola TR	B	0	10,950	0				
6	paking bola TR 1/2"	B	0	11,000	0				
7	paking bola TR 3/4"	B	0	11,050	0				
8	paking isolator TM	B	0	11,100	0				
9	paking isolator TR	B	0	11,150	0				
10	paking isolator TR 1/2"	B	0	11,200	0				
11	paking isolator TR 3/4"	B	0	11,250	0				
12	paking karet bulat 9 mm	M	0	11,300	0				
13	paking cornika 90x90x5 mm	Cm	0	11,350	0				
14	tap changer	Set	0	11,400	0				
15	busing primer out door	B	0	11,450	0				
16	busing sekunder out door	B	0	11,500	0				
17	busing primer in door	B	0	11,550	0				
18	busing sekunder in door	B	0	11,600	0				
19	mur baut besi / deksel 13 mm	B	0	11,650	0				
20	mur baut besi / deksel 17 mm	B	0	11,700	0				
21	mur baut besi / deksel 19 mm	B	0	11,750	0				
22	dop primer / TM	B	0	11,800	0				
23	dop sekunder / TR	B	0	11,850	0				
24	dop sekunder / TR 1/2"	Set	0	11,900	0				
25	dop sekunder / TR 3/4"	Set	0	11,950	0				
26	mur dan ring kuningan 1/2"	B	0	12,000	0				
27	mur dan ring kuningan 3/4"	B	0	12,050	0				
28	dop oil level	B	0	12,100	0				
	Jumlah				11,300				
	Ganti Insolation & Board								
1	isolasi papier ex jerman 0,25 mm	K	1	12,600	12,600				
2	kawat las tembaga	K	2.5	12,650	31,625				
3	isolasi nasuha / fanfix	R	2	12,700	25,400				
4	mica film 0,25 mm	K	2	12,750	25,500				
5	kayu propil 200x6x2 cm	B	0.1	12,800	1,280				
6	plat tembaga srip uk. 50x8 mm	M	0.1	12,850	1,285				
7	Lem besi	Tb	1	12,900	12,900				
8	isi cuter	B	0.5	12,950	6,475				
9	gasket	Btl	0.25	13,000	3,250				
	Jumlah				120,315				

PT. PLN (PERSERO) J&P UNIT PRODUKSI BANDUNG Jalan Banten Nomor 8 Bandung	RENCANA ANGGARAN BIAYA Nomor PK/PKP : 30/ME/02/05/00 Tanggal : 2/2/2005	REN-2 Hal. 3/3 Revisi

Pekerjaan : Perbaikan Trafo Distribusi
Merk / Daya : 2
Nomor Seri : 3
Pemilik : 1

Surat Permintaan : 1
Daya : 315
Tanggal : 2/2/2005

No.	Nama Barang	Sat.	Rencana			Realisasi			
			Qty	Harga	Jumlah	Kode 7	Jumlah	Kode 3	Jumlah
III.	Material Pendukung								
	Biaya Pengecatan								
1	cat besi	K	0	13,050	0				
2	thiner super	L	0	13,100	0				
3	ampelas besi	H	0	13,150	0				
4	majun kaos	K	0	13,200	0				
5	gas asetilin	Btl	0	13,250	0				
6	gas oksigen	Btl	0	13,300	0				
7	plat nama UPBN	Btl	0	13,350	0				
8	kawat las listrik	K	0	13,400	0				
9	cat pylox	Can	0	13,450	0				
	Jumlah				0				
IV.	Jasa								
1	ongkos pihak ke-3	Unit	0	13,500	0				
2	ongkos angkut	Unit	0	13,550	0				
3	pengepakan & bongkar muat	Unit	0	13,600	0				
	JUMLAH BIAYA LANGSUNG				3,300,978				
B.	**BIAYA TIDAK LANGSUNG**								
I.	Proses Rewering								
1	mesin gulung	Jam	0	13,650	0				
2	mesin pengering	Jam	0	13,700	0				
3	mesin pengujian	Jam	0	13,750	0				
4	mesin crane 5 ton	Jam	0	13,800	0				
5	pemakaian listrik	Jam	0	13,850	0				
6	biaya pemeliharaan mesin	Jam	0	13,900	0				
7	biaya beban tetap listrik	U	0	13,950	0				
	Jumlah				0				
II.	Pengujian/Finishing								
1	biaya pengujian	Unit	0	14,000	0				
2	biaya telepon/facsimile	Unit	0	0	0				
3	biaya perangko/materai	Unit	0	0	0				
4	biaya pemakaian air	Unit	0	0	0				
5	garansi	Unit	0	0	0				
6	biaya SPPD	Ho	0	0	0				
7	keuntungan +/- 10%	Ho	0	0	0				
	Jumlah				0				
III.	Ongkos Kerja/Jasa Perbaikan								
1	gaji pengawas	Ho	0	0	0				
2	gaji pelaksana	Ho	0	0	0				
3	uang makan	Ho	0	0	0				
4	uang lembur	Jam	0	0	0				
	Jumlah				0				
	JUMLAH BIAYA TIDAK LANGSUNG				0				
	TOTAL RAB				3,300,978				

Bandung, 2/2/2005

Mengetahui
PH. As. Man. Bidang Teknik

Su.Pv Ren.Dal.Prod.

Suharto

Yayat Sudrajat

Source Code Form Main

```
unit formMain;

interface

uses
  Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
  Dialogs, ExtCtrls, Menus;

type
  TfrmMain = class(TForm)
    Panel1: TPanel;
    Image1: TImage;
    MainMenu1: TMainMenu;
    Data1: TMenuItem;
    Investigasi1: TMenuItem;
    SPKI1: TMenuItem;
    Penawaran1: TMenuItem;
    Laporan1: TMenuItem;
    Investigasi2: TMenuItem;
    RencanaAnggaranBiaya1: TMenuItem;
    SuratPerintahKerjaIntern1: TMenuItem;
    LampiranPenawaran1: TMenuItem;
    DaftarPermintaanBarang1: TMenuItem;
    entang1: TMenuItem;
    entangProgram1: TMenuItem;
    Sistem1: TMenuItem;
    Logout1: TMenuItem;
    Image2: TImage;
    Panel2: TPanel;
    procedure Investigasi1Click(Sender: TObject);
    procedure SPKI1Click(Sender: TObject);
    procedure Penawaran1Click(Sender: TObject);
    procedure Investigasi2Click(Sender: TObject);
    procedure RencanaAnggaranBiaya1Click(Sender: TObject);
    procedure SuratPerintahKerjaIntern1Click(Sender: TObject);
    procedure DaftarPermintaanBarang1Click(Sender: TObject);
    procedure LampiranPenawaran1Click(Sender: TObject);
    procedure FormClose(Sender: TObject; var Action: TCloseAction);
    procedure Showit(Sender: TObject; usr: string);
    procedure entangProgram1Click(Sender: TObject);
    procedure Logout1Click(Sender: TObject);
  private
    { Private declarations }
    user: string;
  public
    { Public declarations }
  end;

var
  frmMain: TfrmMain;

implementation

uses formInvestigasi, formSPKI, formPenawaran, formCetakLapInvest,
```

```
  formCetakLapPenawaran, formCetakLapRAB, formCetakLapSPKI,
  formDaftarPermintaanBarang, database, formLogin;

{$R *.dfm}

procedure TfrmMain.Investigasi1Click(Sender: TObject);
begin
  frmInvestigasi.ShowModal;
end;

procedure TfrmMain.SPKI1Click(Sender: TObject);
begin
        frmSPKI.ShowModal;
end;

procedure TfrmMain.Penawaran1Click(Sender: TObject);
begin
        frmPenawaran.ShowModal;
end;

procedure TfrmMain.Investigasi2Click(Sender: TObject);
begin
  frmCetakLapInvest.ShowModal;
end;

procedure TfrmMain.RencanaAnggaranBiaya1Click(Sender: TObject);
begin
        frmCetakLapRAB.ShowModal;
end;

procedure TfrmMain.SuratPerintahKerjaIntern1Click(Sender: TObject);
begin
  frmCetakLapSPKI.ShowModal;
end;

procedure TfrmMain.DaftarPermintaanBarang1Click(Sender: TObject);
begin
        frmPermintaanBarang.ShowModal;
end;

procedure TfrmMain.LampiranPenawaran1Click(Sender: TObject);
begin
  frmCetakLapPenawaran.ShowModal;
end;

procedure TfrmMain.FormClose(Sender: TObject; var Action: TCloseAction);
begin
        with modulData.SQLState do
        begin
                SQL.Clear;
                SQL.Add('UPDATE login SET logout=NOW() WHERE
                username='+QuotedStr(user)+
                                ' and logout='+QuotedStr('0000-00-00 00:00:00'));
                ExecSQL(true);
        end;
```

```
        Action := caHide;
        frmLogin.Show;
end;

procedure TfrmMain.Showit(Sender: TObject; usr: string);
begin
        user := usr;
        show;
end;

procedure TfrmMain.entangProgram1Click(Sender: TObject);
begin
        MessageDlg('Sistem Manajemen Perbaikan Trafo'#13+
                        'Hak Cipta (C) 2004-2005, Muhamad Iman
                        Permana',mtInformation,[mbOK],0);
end;

procedure TfrmMain.Logout1Click(Sender: TObject);
begin
        close;
end;

end.
```

Source Code form login

```
unit formLogin;

interface

uses
  Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
  Dialogs, StdCtrls, ExtCtrls;

type
  TfrmLogin = class(TForm)
            Panel1: TPanel;
            Image1: TImage;
            Panel2: TPanel;
            Label2: TLabel;
            Label3: TLabel;
            edUserName: TEdit;
            edPassword: TEdit;
            Button1: TButton;
            Image3: TImage;
            Button2: TButton;
            Button3: TButton;
            procedure Button1Click(Sender: TObject);
            procedure Button2Click(Sender: TObject);
            procedure Button3Click(Sender: TObject);
            procedure FormShow(Sender: TObject);
            procedure FormClose(Sender: TObject; var Action: TCloseAction);
    private
```

```
                { Private declarations }
                procedure Redirect(dest:string);
  public
                { Public declarations }
  end;

var
   frmLogin: TfrmLogin;

implementation

uses database, SqlExpr, Math, formRequestDaftar, DB, formAdmin, formInvest,
 DateUtils, formRAB, formREN, formPengadaan, formPemasaran, formMain;

{$R *.dfm}

procedure TfrmLogin.Redirect(dest:string);
begin
        frmLogin.Hide;
        if Uppercase(dest)='ALL' then
                frmAdmin.Showit(self,edUserName.Text)
        else
        if Uppercase(dest)='INV' then
                frmInvest.Showit(self,edUserName.Text)
        else
        if Uppercase(dest)='REN' then
                frmREN.Showit(self,edUserName.text)
        else
        if Uppercase(dest)='ADA' then
                frmPengadaan.Showit(self,edUserName.text)
        else
        if Uppercase(dest)='SAR' then
                frmPemasaran.Showit(self,edUserName.text)
        else
        if Uppercase(dest)='DAT' then
                frmMain.Showit(self,edUserName.text)
end;

procedure TfrmLogin.Button1Click(Sender: TObject);
var
        year,month,day,hh,mm,ss,ms:word;
        akses,val: string;
begin
        with modulData.SQLState do
        begin
         with SQL do
          begin
           Clear;
            Add('SELECT * FROM user WHERE
            username='+QuotedStr(edusername.Text)+
           'and password='+QuotedStr(edPassword.Text));
          end;
          open;
          if RecordCount>0 then
          begin
```

```
                if FieldByName('blok').AsInteger=1 then
                ShowMessage('Maaf, account anda diblok. Silakan hubungi administrator')
                else
               if FieldByName('request').AsInteger=1 then
                 ShowMessage('Maaf, account anda belum disetujui. Silakan hubungi administrator')
                else
                begin
                 akses:=FieldByName('akses').AsString;
                     with Moduldata.SQLState2 do
                     begin
                       SQL.Clear;
                       SQL.Add('SELECT * FROM login WHERE (username=' +
                        QuotedStr(ModulData.SQLState.FieldByName('username').AsString) +
                        ') ORDER BY tgl DESC');
                       open;
                      end;
                     if (YearOf(modulData.SQLState2.FieldByName('logout').AsDateTime) =
                        1899) and (modulData.SQLState2.RecordCount>0) then
                     begin
                      ShowMessage('Ada orang lain yang sedang memakai account ini!!!'#13+
                      'Jika anda pemilik asli account ini, silakan hubungi administrator');
                     end else
                     begin
                         DecodeDateTime(Now,year,month,day,hh,mm,ss,ms);
                         SQL.Clear;
                         val :=format('NOW(), "%s", 0', [edUserName.Text]);
                          SQL.Add('INSERT INTO login (tgl, username, logout) VALUES
                          ('+val+')');
                         ExecSQL(true);
                         if rowsAffected=0 then
                               showMessage('Ada kesalahan di database, mohon periksa komputer
                               server');
                         Redirect(akses);
                     end;
              end;
      end else
      begin
          MessageDlg('Maaf, username tidak terdaftar atau password salah. Ingat,'#13 +
                       'password bersifat case-sensitive (huruf kapital dan huruf '#13 +
                        'kecil dibedakan)',mtError,[mbOK],0);
          edUserName.SetFocus;
       end;
    end;
end;
procedure TfrmLogin.Button2Click(Sender: TObject);
begin
          close;
end;
procedure TfrmLogin.Button3Click(Sender: TObject);
begin
          frmRequestDaftar.ShowModal;
end;

procedure TfrmLogin.FormShow(Sender: TObject);
begin
```

```
        edUserName.Text := '';
        edPassword.Text := '';
        edUserName.SetFocus;
end;

procedure TfrmLogin.FormClose(Sender: TObject; var Action: TCloseAction);
begin
        If MessageDlg('Apakah anda yakin untuk mengakhiri SMPT?',mtConfirmation,
                        [mbOK,mbCancel],0)=mrOK then
                Action := caFree
        else
                Action := caNone;
end;

end.
```

Source Code Form Perencanaan

```
unit formREN;

interface

uses
  Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
  Dialogs, StdCtrls, Buttons, ExtCtrls, Menus;

type
  TfrmREN = class(TForm)
    Panel1: TPanel;
    Image1: TImage;
    Panel2: TPanel;
    Label1: TLabel;
    Label2: TLabel;
    Panel3: TPanel;
    Label3: TLabel;
    Panel4: TPanel;
    Label4: TLabel;
    BitBtn2: TBitBtn;
    BitBtn1: TBitBtn;
    BitBtn4: TBitBtn;
    Label5: TLabel;
    Panel5: TPanel;
    Label6: TLabel;
    PopupMenu1: TPopupMenu;
    RencanaAnggaranBiaya1: TMenuItem;
    SuratPerintahKerjaInternSPKI1: TMenuItem;
    procedure BitBtn2Click(Sender: TObject);
    procedure FormClose(Sender: TObject; var Action: TCloseAction);
    procedure BitBtn4Click(Sender: TObject);
    procedure BitBtn1Click(Sender: TObject);
    procedure RencanaAnggaranBiaya1Click(Sender: TObject);
    procedure FormShow(Sender: TObject);
    procedure SuratPerintahKerjaInternSPKI1Click(Sender: TObject);
  private
                { Private declarations }
```

```
                user: string;
                procedure refreshInfo;
 public
                { Public declarations }
                procedure Showit(Sender: TObject; usr: string);
end;

var
        frmREN: TfrmREN;


implementation

uses formRAB, database, formLogin, formCetakLapRAB, formSPKI, SqlExpr, DB,
  formCetakLapSPKI;

{$R *.dfm}
procedure TfrmREN.Showit(Sender: TObject; usr: string);
begin
        user := usr;
        show;
end;

procedure TfrmREN.BitBtn2Click(Sender: TObject);
begin
        frmSPKI.showmodal;
        refreshInfo;
end;

procedure TfrmREN.FormClose(Sender: TObject; var Action: TCloseAction);
begin
        with modulData.SQLState do
        begin
                SQL.Clear;
                SQL.Add('UPDATE login SET logout=NOW() WHERE
                username='+QuotedStr(user)+
                                ' and logout='+QuotedStr('0000-00-00 00:00:00'));
                ExecSQL(true);
        end;
        Action := caHide;
        frmLogin.Show;
end;
procedure TfrmREN.BitBtn4Click(Sender: TObject);
begin
        close;
end;

procedure TfrmREN.BitBtn1Click(Sender: TObject);
begin
        PopupMenu1.Popup(Mouse.CursorPos.x,Mouse.CursorPos.y);
end;

procedure TfrmREN.RencanaAnggaranBiaya1Click(Sender: TObject);
begin
        frmCetakLapRAB.ShowModal;
```

```
        refreshInfo;
end;

procedure TfrmREN.refreshInfo;
var
        dtRABnoPrint,dtSPKInoPrint: string;
        dtjumlahRAB, dtJumlahSPKI: integer;
begin
        with modulData.SQLState do
        begin
                SQL.Clear;
                SQL.Add('SELECT * FROM print WHERE form=2 and print=0');
                Open;
                dtRABnoPrint := IntToStr(RecordCount);
                close;
                SQL.Clear;
                SQL.Add('SELECT * FROM print WHERE form=2');
                Open;
                dtJumlahRAB := RecordCount;
                close;
                SQL.Clear;
                SQL.Add('SELECT * FROM print WHERE form=4');
                Open;
                dtJumlahSPKI := RecordCount;
                close;
                SQL.Clear;
                SQL.Add('SELECT * FROM print WHERE form=4 and print=0');
                Open;
                dtSPKInoPrint := IntToStr(RecordCount);
        end;
        Label3.Caption := dtRABnoPrint+ ' Buah';
        Label4.Caption := IntToStr(dtJumlahRAB-dtJumlahSPKI)+ ' Buah';
 Label6.Caption := dtSPKInoPrint+ ' Buah';
end;

procedure TfrmREN.FormShow(Sender: TObject);
begin
        refreshInfo;
end;

procedure TfrmREN.SuratPerintahKerjaInternSPKI1Click(Sender: TObject);
begin
        frmCetakLapSPKI.ShowModal;
        refreshInfo;
end;

end.
```

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Source Code Form Anggaran Biaya / SPKI

```
unit formSPKI;

interface

uses
        Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
        Dialogs, ExtCtrls, StdCtrls, Mask, StrUtils;

type
  TfrmSPKI = class(TForm)
    Panel1: TPanel;
    Image1: TImage;
    Label2: TLabel;
    GroupBox1: TGroupBox;
    Label1: TLabel;
    Label3: TLabel;
    Label4: TLabel;
    Label5: TLabel;
    Label6: TLabel;
    Label7: TLabel;
    Label8: TLabel;
    Label9: TLabel;
    Label10: TLabel;
    Label11: TLabel;
    Label12: TLabel;
    Label13: TLabel;
    Label14: TLabel;
    Label15: TLabel;
    lbPekerjaan: TLabel;
    lbMerk: TLabel;
    lbNoseri: TLabel;
    lbPemilik: TLabel;
    lbSurat: TLabel;
    lbDaya: TLabel;
    lbTanggal: TLabel;
    Panel2: TPanel;
    ScrollBar1: TScrollBar;
    Panel3: TPanel;
    Label24: TLabel;
    Label25: TLabel;
    Label26: TLabel;
    Label27: TLabel;
    Label28: TLabel;
    Panel4: TPanel;
    Bevel1: TBevel;
    Button1: TButton;
    Button2: TButton;
    Button3: TButton;
    edNomor: TEdit;
    Label204: TLabel;
    Panel5: TPanel;
    Label29: TLabel;
    Label30: TLabel;
    Label32: TLabel;
```

Label33: TLabel;
Label34: TLabel;
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    edHrgTotal75: TEdit;
    edHrgTotal76: TEdit;
    edHrgTotal77: TEdit;
    edHrgTotal78: TEdit;
    edHrgTotal79: TEdit;
    edHrgTotal80: TEdit;
    edHrgTotal81: TEdit;
    edHrgTotal82: TEdit;
    Button4: TButton;
    btReset: TButton;
    procedure FormCreate(Sender: TObject);
    procedure ScrollBar1Change(Sender: TObject);
    procedure edNomorKeyDown(Sender: TObject; var Key: Word;
          Shift: TShiftState);
    procedure edNomorKeyPress(Sender: TObject; var Key: Char);
    procedure getValue;
    function setValue:Boolean;
    procedure edQty01Change(Sender: TObject);
    procedure edQty01Enter(Sender: TObject);
    procedure edQty01Exit(Sender: TObject);
    procedure edQty01KeyDown(Sender: TObject; var Key: Word;
          Shift: TShiftState);
    procedure edQty01KeyPress(Sender: TObject; var Key: Char);
    procedure Button3Click(Sender: TObject);
    procedure Button4Click(Sender: TObject);
    procedure FormShow(Sender: TObject);
    procedure Button2Click(Sender: TObject);
    procedure btResetClick(Sender: TObject);
    procedure resetControl;
    procedure prepareControl;
    procedure Button1Click(Sender: TObject);
  private
                { Private declarations }
                function GetComponent(name:string):TEdit;
  public
                { Public declarations }
  end;

var
        frmSPKI: TfrmSPKI;

implementation

uses database, SqlExpr, DB, functions, formCetakLapSPKI;

{$R *.dfm}

procedure TfrmSPKI.FormCreate(Sender: TObject);
begin
        ScrollBar1.Min := 0;
        ScrollBar1.Max := Panel5.Height - Panel4.Height + 1;
end;

procedure TfrmSPKI.ScrollBar1Change(Sender: TObject);
begin
```

```
        Panel5.Top := ScrollBar1.Position * -1;
end;

procedure TfrmSPKI.edNomorKeyDown(Sender: TObject; var Key: Word;
        Shift: TShiftState);
var
        dtSS: word;
begin
        dtSS := edNomor.SelStart;
        if Key=VK_RIGHT then
        begin
                if (dtSS=1) or (dtSS=4) or (dtSS=7) or
                        (dtSS=10) then
                edNomor.SelStart :=dtSS + 1;
        end else
        if Key=VK_LEFT then
        begin
                if (dtSS=3) or (dtSS=6) or (dtSS=9) or
                        (dtSS=12) then
                edNomor.SelStart :=dtSS - 1;
        end else
        if Key=VK_BACK then
        begin
                Key := 0;
                if dtSS=length(edNomor.Text) then
                begin
                        edNomor.Text := LeftStr(edNomor.Text,Length(edNomor.Text)-1)+' ';
                        edNomor.SelStart := dtSS - 1;
                end else
                if dtSS=1 then
                begin
                        edNomor.Text := ' '+RightStr(edNomor.Text,length(edNomor.Text)-1);
                        edNomor.selStart := dtSS - 1;
                end else
                if dtSS=0 then
                begin
                        {do nothing}
                end else
                if (dtSS=3) or (dtSS=6) or (dtSS=9) or(dtSS=12) then
                begin
                        edNomor.Text := LeftStr(edNomor.Text,dtSS-2)+' '+
                                        RightStr(edNomor.Text,Length(edNomor.Text)-
                        edNomor.SelStart+1);
                        edNomor.selStart := dtSS - 2;
                end else
                begin
                        edNomor.Text := LeftStr(edNomor.Text,dtSS-1)+' '+
                                        RightStr(edNomor.Text,Length(edNomor.Text)-
                        edNomor.SelStart);
                        edNomor.selStart := dtSS - 1;
                end;
        end else
        if Key=VK_DELETE then
        begin
                Key := 0;
```

```
                if (dtSS=0) then
                begin
                        edNomor.Text :=' '+RightStr(edNomor.Text,length(edNomor.Text)-1);
                end else
                if (dtSS=length(edNomor.Text)) then
                begin
                        {do nothing}
                end else
                begin
                        edNomor.Text := LeftStr(edNomor.Text,dtSS)+' '+
                                RightStr(edNomor.Text,length(edNomor.Text)-dtSS-1);
                end;
                        edNomor.SelStart := dtSS;
        end;
end;

procedure TfrmSPKI.edNomorKeyPress(Sender: TObject; var Key: Char);
var
        dtSS: word;
begin
        {Penomoran: 30/ME/01/05/001}
        dtSS := edNomor.SelStart;
        if key=#8 then
        begin
                key:=#0;
                exit;
        end;
        if ((dtSS in [0,1,6,7,9,10,12,13,14]) and not (Key in ['0'..'9'])) or
                        ((dtSS in [3,4]) and not (Key in ['a'..'z','A'..'Z'])) then
        begin
                key := #0;
                beep;
                exit;
        end;
        if dtSS=0 then
        begin
                edNomor.Text := Key+RightStr(edNomor.Text,Length(edNomor.Text)-1);
                edNomor.SelStart :=dtSS + 1;
        end else
        if dtSS=length(edNomor.Text)-1 then
        begin
                edNomor.Text := LeftStr(edNomor.Text,Length(edNomor.Text)-1)+Key;
                edNomor.SelStart :=dtSS + 1;
        end else
        if dtSS=length(edNomor.Text) then
        begin
                {do nothing}
        end else
        begin
                edNomor.Text := LeftStr(edNomor.Text,dtSS)+Key+
                        RightStr(edNomor.Text,Length(edNomor.Text)-edNomor.SelStart-1);
                edNomor.SelStart :=dtSS + 1;
        end;
        dtSS := edNomor.SelStart;
        if (edNomor.SelStart=2) or (edNomor.SelStart=5) or (edNomor.SelStart=8) or
```

```
                    (edNomor.SelStart=11) then
                edNomor.SelStart :=dtSS + 1;
        Key := #0;
end;

procedure TfrmSPKI.getValue;
var
        dtTahun: string;
        fmtSetting: TFormatSettings;
        i: integer;
        edtmp1,edtmp2,edtmp3: TEdit;
        number: double;
begin
        GetLocaleFormatSettings(LCID_INSTALLED,fmtSetting);
        dtTahun := '20'+MidStr(edNomor.Text,10,2);
        with modulData.SQLState2 do
        begin
                SQL.Clear;
                SQL.Add('SELECT * FROM lap_rab WHERE
                kode='+QuotedStr(edNomor.Text)+
                                ' and tahun='+dtTahun+' ORDER by item');
                Open;
                if RecordCount=0 then
                begin
                        showMessage('Maaf, terjadi kesalahan di database server...');
                        exit;
                end;
                First;
                for i:= 1 to 82 do begin
                        edtmp1 := GetComponent('edQty'+Format('%.2d',[i]));
                        edtmp2 := GetComponent('edHargaSat'+Format('%.2d',[i]));
                        edtmp3 := GetComponent('edHrgTotal'+Format('%.2d',[i]));
                        edtmp1.Text := FloatToStr(FieldByName('qty').AsFloat,fmtSetting);
                        edtmp2.Text := FieldByName('harga').AsString;
                        number := (getNumber(edtmp1.Text)*getNumber(edtmp2.Text));
                        edtmp3.Text := Format('%.0n',[number]);
                        Next;
                end;
        end;
        with moduldata.SQLState3 do
        begin
                SQL.Clear;
                SQL.Add('SELECT * FROM harga_ada_skr ORDER BY kode');
                Open;
                for i:= 1 to 82 do begin
                        edtmp1 := GetComponent('edHrgAda'+Format('%.2d',[i]));
                        edtmp1.Text := Format('%.0n',[FieldByName('harga').AsFloat]);
                        Next;
                end;
        end;
end;
function TfrmSPKI.setValue: Boolean;
var
        dtTahun,dtQty,dtHarga: string;
        fmtSetting: TFormatSettings;
```

```
        i: integer;

        edtmp1,edtmp2: TEdit;
begin
        result := true;
        GetLocaleFormatSettings(LCID_INSTALLED,fmtSetting);
        dtTahun := '20'+MidStr(edNomor.Text,10,2);
        with modulData.SQLState3 do
        begin
                SQL.Clear;
                SQL.Add('SELECT * FROM harga_ren_skr ORDER BY kode');
                Open;
        end;

        //simpan data
        with modulData.SQLState2 do
        begin
                SQL.Clear;
                SQL.Add('DELETE FROM lap_spki WHERE
                kode='+QuotedStr(edNomor.Text)+
                                ' and tahun='+dtTahun);
                execSQL(true);
                SQL.Clear;
                SQL.Add('SELECT * FROM lap_rab WHERE
                kode='+QuotedStr(edNomor.Text)+
                                ' and tahun='+dtTahun+' ORDER by item');
                Open;
                for i:= 1 to 82 do begin
                        edtmp1 := GetComponent('edQty'+Format('%.2d',[i]));
                        edtmp2 := GetComponent('edHargaSat'+Format('%.2d',[i]));
                        with moduldata.SQLState3 do
                        begin
                                if edtmp1.text='' then
                                        dtQty := '0'
                                else
                                        dtQty := edtmp1.text;
                                if edtmp2.text='' then
                                        dtHarga := '0'
                                else
                                        dtHarga := edtmp2.text;
                                SQL.Clear;
                                SQL.Add('INSERT INTO lap_spki
                                (kode,tahun,item,qty,harga) VALUES '+
                                '('+QuotedStr(edNomor.Text)+','+dtTahun+','+IntToStr(i)+','+
                                                ReplaceDec(dtQty)+','+
                                                ReplaceDec(dtHarga)+')');
                                ExecSQL(true);
                                if RowsAffected=0 then
                                begin
                                        Result := false;
                                        exit;
                                end;
                                close;
                        end;
                        //simpan jika user melakukan perubahan harga satuan
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```
                        if getNumber(edtmp2.Text)<>
                        getNumber(FIeldByName('harga').AsString) then
                        begin
                                with modulData.SQLState do
                                begin
                                        SQL.Clear;
                                        SQL.Add('UPDATE harga_ren_skr SET
                                        harga='+ReplaceDec(dtHarga)+' WHERE
                                        kode='+IntToStr(i));
                                        ExecSQL(true);
                                        SQL.Clear;
                                        SQL.Add('INSERT INTO harga_ren (kode,tgl,harga)
                                        VALUES '+
                                        '('+IntToStr(i)+',now(),'+ReplaceDec(dtHarga)+')');
                                        ExecSQL(true);
                                        if RowsAffected=0 then
                                        begin
                                                Result := false;
                                                exit;
                                        end;
                                end;
                        end;
                        next;
                end;
        end;

end;

function TfrmSPKI.GetComponent(name:string):TEdit;
var i: integer;
begin
        result := nil;
        for i := 0 to ComponentCount-1 do
        begin
                if (Components[i].Name=name) then
                begin
                        Result := (Components[i] as TEdit);
                        exit;
                end;
        end;
end;

procedure TfrmSPKI.edQty01Change(Sender: TObject);
var
        editBox,editBox2,editBox3,editBox4: TEdit;
        fmtSetting: TFormatSettings;
        CommaChar: char;
        number: double;
begin
        GetLocaleFormatSettings(LCID_INSTALLED,fmtSetting);
        CommaChar := fmtSetting.DecimalSeparator;
        editBox := (Sender as TEdit);
        if (editBox.Text = '0') then
                editBox.text := '';
        if editBox.Text = '' then
```

```
                editBox.Color := clSilver
        else begin
                editBox.Color := clWhite;
                if editBox.Text[1]=CommaChar then
                begin
                        editBox.Text := '0'+editBox.Text;
                        editbox.SelStart := length(editBox.Text);
                end;
        end;
        editBox2 := GetComponent('edHargaSat'+RightStr(editBox.Name,2));
        editBox3 := GetComponent('edHrgTotal'+RightStr(editBox.Name,2));
        editBox4 := GetComponent('edQty'+RightStr(editBox.Name,2));
        number := (getNumber(editBox2.Text)*getNumber(editBox4.Text));
        editBox3.Text := Format('%.0n',[number]);
end;

procedure TfrmSPKI.edQty01Enter(Sender: TObject);
var
        EditBox: TEdit;
        i: integer;
        lblComponent: TLabel;
begin
        EditBox := (Sender as TEdit);
        if frmSPKI.ComponentCount > 0 then
        begin
                for i:= 0 to frmSPKI.ComponentCount-1 do
                begin
                        if frmSPKI.components[i].ClassName='TLabel' then
                        begin
                                lblComponent := frmSPKI.Components[i] as TLabel;
                                if (lblComponent.Top = EditBox.Top + 3) and
                                (lblComponent.Parent=Panel5) then
                                (frmSPKI.Components[i] as TLabel).Font.Color :=
                                clHighlightText;
                        end;
                end;
        end;
        if (EditBox.top + EditBox.Height + Panel5.top < Panel4.height) and
                (EditBox.Top + Panel5.Top >= 0) then
                exit;
        if (EditBox.top + Panel5.top < 0) then
        begin
                Panel5.Top := EditBox.top * -1;
                if panel5.Top > 0 then
                        panel5.top := 0;
                ScrollBar1.Position := panel5.top * -1;
                editbox.SetFocus;
        end
        else if EditBox.top + EditBox.Height + panel5.top > Panel4.height then
        begin
                Panel5.Top := EditBox.Top * -1 + (Panel4.Height-editBox.Height) + 1;
                ScrollBar1.Position := panel5.top * -1;
                editbox.SetFocus;
        end;
end;
```

```
procedure TfrmSPKI.edQty01Exit(Sender: TObject);
var
        EditBox: TEdit;
        i: integer;
begin
        EditBox := (Sender as TEdit);
        if frmSPKI.ComponentCount > 0 then
        begin
                for i:= 0 to frmSPKI.ComponentCount-1 do
                begin
                        if frmSPKI.components[i].ClassName='TLabel' then
                        begin
                        if (frmSPKI.Components[i] as TLabel).Top = EditBox.Top + 3 then
                                        (frmSPKI.Components[i] as TLabel).Font.Color :=
                                clWindowText;
                        end;
                end;
        end;
end;

procedure TfrmSPKI.edQty01KeyDown(Sender: TObject; var Key: Word;
        Shift: TShiftState);
var
        fmtSetting: TFormatSettings;
        CommaChar: char;
        editBox: TEdit;
        pos: integer;
begin
        GetLocaleFormatSettings(LCID_INSTALLED,fmtSetting);
        CommaChar := fmtSetting.DecimalSeparator;
        editBox := (sender as TEdit);
        if Key = VK_DECIMAL then
        begin
                if isContainComma(editBox.Text) then
                        exit;
                key := 0;
                pos := editBox.SelStart;
                if pos=0 then
                begin
                        editBox.Text := CommaChar + editBox.Text;
                        editBox.SelStart := 2;
                end else if pos=length(editBox.Text) then
                begin
                        editBox.Text := editBox.Text + CommaChar;
                        editBox.SelStart := length(EditBox.Text);
                end else begin
                        editBox.text := LeftStr(editBox.Text,pos)+CommaChar+RightStr
                        (editBox.Text,length(editBox.Text)-pos);
                        editBox.SelStart := pos+1;
                end;
        end;
end;

procedure TfrmSPKI.edQty01KeyPress(Sender: TObject; var Key: Char);
```

```
var
        fmtSetting: TFormatSettings;
        CommaChar: char;
        editBox: TEdit;
begin
        GetLocaleFormatSettings(LCID_INSTALLED,fmtSetting);
        CommaChar := fmtSetting.DecimalSeparator;
        editBox := (sender as TEdit);
        if not (key in ['0'..'9',CommaChar,#8]) or
         ((key=CommaChar) and (iscontainComma(editBox.Text))) then
        begin
                beep;
                Key := #0;
        end;
end;

procedure TfrmSPKI.Button3Click(Sender: TObject);
begin
        if MessageDlg('Anda yakin menutup jendela ini?',mtConfirmation,
                        [mbYes,mbCancel],0)=mrYes then
                close;
end;

procedure TfrmSPKI.Button4Click(Sender: TObject);
var
        dtTahun: string;
begin
        dtTahun := '20'+MidStr(edNomor.Text,10,2);
        with modulData.SQLState do
        begin
                SQL.Clear;
                SQL.Add('SELECT * FROM print WHERE
                kode='+QuotedStr(edNomor.Text)+
                                ' and tahun='+dtTahun+' and form=4');
                Open;
                if RecordCount>0 then
                begin
                        ShowMessage('Maaf, nomor PK ini telah dibuat SPKI, silakan
                        masukkan'#13+ 'nomor PK yang lain...');
                        edNomor.SetFocus;
                        exit;
                end;
                SQL.Clear;
                SQL.Add('SELECT * FROM pk WHERE kode='+QuotedStr(edNomor.Text)+
                                ' and tahun='+dtTahun);
                Open;
                if RecordCount=0 then
                begin
                        showMessage('Maaf, nomor PK tersebut belum ada pada tabel '+
                                        'investigasi...'#13'Silakan tekan tombol elipsis untuk
                                        melihat '+ 'investigasi yang telah dilakukan');
                        edNomor.SetFocus;
                        exit;
                end;
                lbPekerjaan.Caption := 'Perbaikan Trafo Distribusi';
```

```
                lbMerk.Caption := FieldByName('merk').asstring;
                lbNoseri.Caption := FieldByName('noseri').AsString;
                lbPemilik.Caption := FieldByName('pemilik').AsString;
                lbSurat.Caption := '';
                lbDaya.Caption := FieldByName('daya').AsString;
                lbTanggal.Caption := FieldByName('tgl').AsString;
        end;
        getValue;
        prepareControl;
end;

procedure TfrmSPKI.resetControl;
var
        i: integer;
begin
        button1.Enabled := false;
        button2.Enabled := false;
        btReset.Enabled := false;
        Button4.Enabled := true;
        for i:=0 to ComponentCount-1 do
        begin
                if Components[i].ClassType = TEdit then
                begin
                        (Components[i] as TEdit).Enabled := false;
                        (Components[i] as TEdit).Text := '';
                end;
        end;
        edNomor.Enabled := true;
        edNomor.Text := '00/XX/00/00/000';
 Panel5.Top := 0;
end;

procedure TfrmSPKI.prepareControl;
var
        i: integer;
begin
                for i:=0 to frmSPKI.ComponentCount-1 do
                begin
                        if frmSPKI.Components[i].ClassType = TEdit then
                        begin
                                (frmSPKI.Components[i] as TEdit).Enabled := true;
                        end;
                end;
                button1.enabled := true;
                button2.enabled := true;
                btReset.Enabled := true;
                edNomor.Enabled := false;
                button4.enabled := false;
  edQty01.SetFocus;
end;

procedure TfrmSPKI.FormShow(Sender: TObject);
begin
        resetControl;
end;
```

```
procedure TfrmSPKI.Button2Click(Sender: TObject);
var
        dtTahun: string;
begin
        dtTahun := '20'+MidStr(edNomor.Text,10,2);
        if setValue then
                showMessage('SPKI berhasil disimpan...')
        else
        begin
                showMessage('Maaf, terjadi kesalahan di server '#13+
                        'database ketika menyimpan SPKI...');
                exit;
        end;
        with moduldata.SQLState do
        begin
                SQL.Clear;
                SQL.Add('SELECT * FROM print WHERE
                kode='+QuotedStr(edNomor.Text)+
                        ' and tahun='+dtTahun+' and form=4');
                Open;
                if RecordCount=0 then
                begin
                        SQL.Clear;
                        SQL.Add('INSERT into print (kode,tahun,form,print) VALUES ('+
                                QuotedStr(edNomor.text)+','+dtTahun+',4,0)');
                        ExecSQL(true);
                        if rowsAffected=0 then
                        ShowMessage('Maaf, ada kesalahan pada server database');
                end;
                close;
        end;

        //Buat Daftar Permintaan Barang
        with moduldata.SQLState do
        begin
                SQL.Clear;
                SQL.Add('INSERT into print (kode,tahun,form,print) VALUES ('+
                        QuotedStr(edNomor.text)+','+dtTahun+',6,0)');
                ExecSQL(true);
                if rowsAffected=0 then
                        ShowMessage('Maaf, ada kesalahan pada server database');
        end;
        //Buat Daftar Bon Pemakaian (Kode 7)
        with moduldata.SQLState do
        begin
                SQL.Clear;
                SQL.Add('INSERT into print (kode,tahun,form,print) VALUES ('+
                        QuotedStr(edNomor.text)+','+dtTahun+',8,0)');
                ExecSQL(true);
                if rowsAffected=0 then
                        ShowMessage('Maaf, ada kesalahan pada server database');
        end;
        //Buat Surat Ijin Pengadaan
        with moduldata.SQLState do
        begin
```

```
                SQL.Clear;
                SQL.Add('INSERT into print (kode,tahun,form,print) VALUES ('+
                        QuotedStr(edNomor.text)+','+dtTahun+',9,0)');
                ExecSQL(true);
                if rowsAffected=0 then
                        ShowMessage('Maaf, ada kesalahan pada server database');
        end;
end;
procedure TfrmSPKI.btResetClick(Sender: TObject);
begin
        resetControl;
end;

procedure TfrmSPKI.Button1Click(Sender: TObject);
var
        dtTahun: string;
        lsKode, lsTahun: TStrings;
begin
        dtTahun := '20'+MidStr(edNomor.Text,10,2);
        with moduldata.SQLState do
        begin
                SQL.Clear;
                SQL.Add('SELECT * FROM print WHERE
                kode='+QuotedStr(edNomor.Text)+
                        ' and tahun='+dtTahun+' and form=4');
                Open;
                if RecordCount=0 then
                        Button2.Click;
        end;
        lsKode := TStringList.Create;
        lsTahun := TStringList.Create;
        lsKode.Add(edNomor.Text);
        lsTahun.Add(dtTahun);
        with moduldata.SQLState do
        begin
                SQL.Clear;
                SQL.Add('UPDATE print SET print=print+1 WHERE kode=' +
                        QuotedStr(edNomor.Text)+' and tahun='+dtTahun+' and form=4');
                ExecSQL(true);
                if rowsAffected=0 then
                        ShowMessage('Maaf, ada kesalahan pada server database');
                close;
        end;
        frmCetakLapSPKI.CetakLaporan(lsKode,lsTahun);
end;

end.
```

Source Code Form Cetak Laporan Rencana Anggaran Biaya

```
unit formCetakLapRAB;

interface

uses
        Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
        Dialogs, Buttons, Grids, StdCtrls, ExtCtrls, DateUtils, Printers, Math;

type
        TfrmCetakLapRAB = class(TForm)
                Panel1: TPanel;
                Image1: TImage;
                Label1: TLabel;
                Label2: TLabel;
                Image2: TImage;
                lbJumlah: TLabel;
                lbDipilih: TLabel;
                Button2: TButton;
                cbCrPrint: TComboBox;
                cbCrTahun: TComboBox;
                grLaporan: TStringGrid;
                BitBtn1: TBitBtn;
                BitBtn2: TBitBtn;
                procedure FormShow(Sender: TObject);
                procedure cbCrPrintChange(Sender: TObject);
                procedure grLaporanClick(Sender: TObject);
                procedure BitBtn2Click(Sender: TObject);
                procedure Button2Click(Sender: TObject);
        private
                { Private declarations }
                procedure RefreshControl;
                procedure refreshLabel;
                procedure CetakLaporan(repRange, repYear:TStrings);
        public
                { Public declarations }
        end;

var
        frmCetakLapRAB: TfrmCetakLapRAB;

implementation

uses database, SqlExpr, DB;

{$R *.dfm}

procedure TfrmCetakLapRAB.RefreshControl;
var
        crPrint, crTahun,
        dtKode, dtTahun, dtTgl, dtPemilik, dtMerk, dtDaya, dtNoSeri, dtCetak: string;
        jumlah, i: integer;

begin
```

```
//hitung jumlah laporan yang ada
if cbCrPrint.ItemIndex=0 then
        crPrint := ' and print=0'
else
        crPrint := '';
if (cbCrTahun.ItemIndex < cbCrPrint.Items.Count-1) and   (cbCrTahun.itemIndex<>-1)
then
        crTahun := ' and tahun='+cbCrTahun.Text
else
        crTahun := '';
with modulData.SQLState do
begin
        SQL.Clear;
        SQL.Add('SELECT * FROM print WHERE form=2 '+crTahun+crPrint);
        Open;
        jumlah := RecordCount;
end;
if jumlah>0 then
begin
        grLaporan.RowCount := jumlah+1;
        BitBtn2.Enabled := true;
end else
begin
        grLaporan.RowCount := 2;
        grLaporan.Rows[1].clear;
        BitBtn2.Enabled := false;
end;
lbJumlah.Caption := format('Jumlah: %d buah',[jumlah]);
refreshLabel;

//retrieve data from database
with modulData.SQLState do
begin
        SQL.Clear;
        SQL.Add('SELECT * FROM print WHERE form=2 '+crTahun+crPrint);
        Open;
end;
for i:=1 to jumlah do
begin
        with grLaporan.Rows[i] do
        begin
                clear;
                dtKode := modulData.SQLState.FieldByName('kode').AsString;
                dtTahun := modulData.SQLState.FieldByName('tahun').AsString;
                if modulData.SQLState.FieldByName('print').AsInteger=0 then
                        dtCetak := 'Belum'
                else
                        dtCetak := 'Sudah';

                //nomor PK
                add(dtKode);

                with modulData.SQLState2 do
                begin
                        SQL.Clear;
```

```
                                        SQL.Add('SELECT * FROM pk WHERE
                                        kode='+QuotedStr(dtKode)+' and tahun='+dtTahun);
                                        open;
                                        dtTgl := FieldByName('tanggal').AsString;
                                        dtPemilik := FieldByName('pemilik').AsString;
                                        dtMerk := FieldByName('merk').AsString;
                                        dtDaya := FieldByName('daya').AsString;
                                        dtNoSeri := FieldByName('noseri').AsString;
                                end;

                                add(dtTgl);
                                add(dtPemilik);
                                add(dtMerk);
                                add(dtDaya);
                                add(dtNoSeri);
                                add(dtCetak);
                        end;
                        modulData.SQLState.Next;
                end;
end;

procedure TfrmCetakLapRAB.FormShow(Sender: TObject);
var
        i: integer;
begin
        //Set judul tabel
        grLaporan.ColCount := 7;
        with grLaporan.Rows[0] do
        begin
                Clear;
                add('Nomor');
                add('Tanggal');
                add('Pemilik');
                add('Merk');
                add('Daya');
                add('No. Seri');
                add('Dicetak');
        end;
        with modulData.SQLState do
        begin
                SQL.Clear;
                SQL.Add('SELECT DISTINCT tahun FROM pk');
                Open;
                cbCrTahun.Items.Clear;
                while not eof do
                begin
                        cbCrTahun.Items.Add(FieldByName('tahun').AsString);
                        Next;
                end;
                cbCrTahun.Items.Add('Semua');
                i := cbCrTahun.Items.IndexOf(IntToStr(YearOf(Now)));
                if i<>-1 then
                        cbCrTahun.itemIndex := i
                else
                        cbCrTahun.ItemHeight := cbCrTahun.Items.Count-1;
```

```
                Close; {Close the dataset}
        end;
        refreshControl;
end;

function currtoString(curr:longint):string;
var
        tmp: string;
        angkaasli,angka,angka2,angka3: integer;
const
        bil: array[1..9] of string = ('Satu','Dua','Tiga','Empat','Lima',
                        'Enam','Tujuh','Delapan','Sembilan');
        miliar= 1000000000;
        juta=1000000;
        ribu=1000;
        satu=1;
begin
        tmp := '';
        if curr>=miliar then
        begin
                angka := curr div miliar;
                angka3:=0;
                angkaasli := angka;
                if angka >9 then
                begin
                        angka2 := angka div 10;
                        if angka2>9 then
                        begin
                                angka3 := angka2 div 10;
                                tmp := tmp + bil[angka3]+' Ratus ';
                                angka2 := angka2 - angka3 * 10;
                        end;
                        if angka2>1 then
                                tmp := tmp + bil[angka2]+' Puluh '
                        else
                        if angka2>0 then
                                tmp := tmp + 'Sepuluh ';
                        angka := angka - angka2*10 - angka3*100;
                end;
                tmp := tmp + bil[angka]+' Miliar ';
                curr := curr - angkaasli * miliar;
        end;
        if curr>=juta then
        begin
                angka := curr div juta;
                angka3:=0;
                angkaasli := angka;
                if angka >9 then
                begin
                        angka2 := angka div 10;
                        if angka2>9 then
                        begin
                                angka3 := angka2 div 10;
                                tmp := tmp + bil[angka3]+' Ratus ';
                                angka2 := angka2 - angka3 * 10;
```

```
                end;
                if angka2>1 then
                        tmp := tmp + bil[angka2]+' Puluh '
                else
                if angka2>0 then
                        tmp := tmp + 'Sepuluh ';
                angka := angka - angka2*10 - angka3*100;
        end;
        tmp := tmp + bil[angka]+' Juta ';
        curr := curr - angkaasli * juta;
end;
if curr>=ribu then
begin
        angka := curr div ribu;
        angka3:=0;
        angkaasli := angka;
        if angka >9 then
        begin
                angka2 := angka div 10;
                if angka2>9 then
                begin
                        angka3 := angka2 div 10;
                        tmp := tmp + bil[angka3]+' Ratus ';
                        angka2 := angka2 - angka3 * 10;
                end;
                if angka2>1 then
                        tmp := tmp + bil[angka2]+' Puluh '
                else
                if angka2>0 then
                        tmp := tmp + 'Sepuluh ';
                angka := angka - angka2*10-angka3*100;
        end;
        tmp := tmp + bil[angka]+' Ribu ';
        curr := curr - angkaasli * ribu;
end;
if curr>=satu then
begin
        angka := curr;
        angka3:=0;
        if angka >9 then
        begin
                angka2 := angka div 10;
                if angka2>9 then
                begin
                        angka3 := angka2 div 10;
                        tmp := tmp + bil[angka3]+' Ratus ';
                        angka2 := angka2 - angka3 * 10;
                end;
                if angka2>0 then
                        tmp := tmp + bil[angka2]+' Puluh ';
                angka := angka - angka2*10 - angka3*100;
        end;
        if angka>0 then
                tmp := tmp + bil[angka]+ ' ';
end;
```

```
        tmp := tmp + 'Rupiah';
        result := tmp;
end;

procedure TfrmCetakLapRAB.refreshLabel;
var
        dtJumlah: Integer;
begin
        dtJumlah:=grLaporan.Selection.Bottom-grLaporan.Selection.Top+1;
        if lbJumlah.Caption = 'Jumlah: 0 buah' then
                dtJumlah := 0;
        lbDipilih.Caption := format('Dipilih: %d buah',[dtJumlah]);
        lbDipilih.Left := lbJumlah.Left + lbJumlah.Width + 10;
end;

procedure TfrmCetakLapRAB.cbCrPrintChange(Sender: TObject);
begin
        RefreshControl;
end;

procedure TfrmCetakLapRAB.grLaporanClick(Sender: TObject);
begin
        refreshLabel;
end;

procedure TfrmCetakLapRAB.CetakLaporan(repRange, repYear:TStrings);
var
        ppix,ppiy,mmx,mmy,hmar,vmar,ls,lastLine,lastcol,i,j,tmp1,tmp2,tmp3,tmp4:integer;
        dtNomor, dtMerk, dtNoSeri, dtPemilik, dtTug, dtTgl, dtTglTrafo, dtHub,
        dtKet, dtSatuan: string;
        dtArus, dtEx, dtIsiMinyak, dtBerat, dtPB, dtSB, dtPS, dtAB, dtAC, dtBC,
        dtab2, dtac2, dtbc2,dtJumlahReal: real;
        dtJumlahInt: integer;
        dtdaya, dtTahun: word;
        dtJumlahKosong: boolean;

procedure println(text:string);
begin
        with Printer.Canvas do
        begin
                textout(Hmar+lastcol,Vmar+lastline,text);
                ls := TextHeight('X');
                lastLine := lastLine + ls;
        end;
end;

procedure printNoln(text:string);
begin
        with Printer.Canvas do
        begin
                ls := TextHeight('X');
                textout(Hmar+lastcol,Vmar+lastline,text);
                lastCol:=lastCol + TextWidth(text);
        end;
end;
```

```
procedure printCn(text:string);
var
        startX:integer;
begin
        with Printer.Canvas do
        begin
                startX :=(((printer.PageWidth-mmx*20)-(Hmar+lastCol))-TextWidth(text))div2;
                textOut(Hmar+lastcol+startX,Vmar+lastline,text);
                ls := TextHeight('X');
                lastLine := lastLine + ls;
                lastCol :=lastcol+startX;
        end;
end;

begin
        with printer do
                begin
                        BeginDoc;
                        for j := 0 to repRange.Count - 1 do
                        begin
                                lastLine:=0;
                                lastCol := 0;
                                With Canvas do
                                begin
                                Brush.Style := bsClear;
                                {Establish printer parameters}
                                ppix:=GetDeviceCaps(Handle,LOGPIXELSX);  {Pixels per
                                inch, x direction}
                                ppiy:=GetDeviceCaps(Handle,LOGPIXELSY);{"
                                "  y direction}
                                mmx:=round(ppix/25.4);     {Pixels per mm, x direction}
                                mmy:=round(ppiy/25.4);     {        "          "          y
                                direction}
                                hmar:=mmx*15;         {Horizontal (left hand) margin}
                                vmar:=mmy*10; {Vertical (top) margin}
                                Font.PixelsPerInch:=ppix; {BUG!}
                                Image2.Proportional := true;
                                with modulData.SQLState do
                                        begin
                                        SQL.Clear;
                                        SQL.Add('SELECT * FROM pk WHERE
                                        kode='+QuotedStr(repRange[j])+
                                                'and tahun='+repYear[j]);
                                                Open;
                                        with moduldata.SQLState do
                                        begin
                                        dtNomor := FieldByName('kode').AsString;
                                        dtTahun := FieldByName('tahun').AsInteger;
                                        dtTglTrafo := FieldByName('tgl').AsString;
                                        dtDaya := FieldByName('daya').AsInteger;
                                        dtMerk := fieldByName('merk').AsString;
                                        dtNoSeri := fieldByName('noseri').AsString;
                                        dtArus := FieldByName('arus').AsFloat;
                                        dthub := FieldByName('hubungan').AsString;
```

```
dtEx := FieldByName('ex').AsFloat;
dtIsiMinyak := FieldByName('isiminyak').AsFloat;
dtBerat := FieldByName('berat').AsFloat;
dtPemilik := FieldByName('pemilik').AsString;
dtTug := FieldByName('tug').AsString;
dtTgl := FieldByName('tanggal').AsString;
dtPB := FieldByName('PB').AsFloat;
dtSB := FieldByName('SB').AsFloat;
dtPS := FieldByName('PS').AsFloat;
dtAB := FieldByName('AB').AsFloat;
dtAC := FieldByName('AC').AsFloat;
dtBC := FieldByName('BC').AsFloat;
dtab2 := FieldByName('ab2').AsFloat;
dtac2 := FieldByName('ac2').AsFloat;
dtbc2 := FieldByName('bc2').AsFloat;
end;
end;
//halaman 1
Draw(hmar,vmar,Image2.Picture.Graphic);
LastCol := Image2.Picture.Graphic.Width+20;
Font.Name:='Arial';
{Set font size and style, Print Heading}
Font.Size := 10;
Font.Style:=[fsBold];
SetTextAlign(printer.canvas.handle,TA_LEFT);
println('PT. PLN (PERSERO) J&P');
println('UNIT PRODUKSI BANDUNG');
tmp1 := TextWidth('UNIT PRODUKSI
BANDUNG');
lastLine := lastLine + mmx*2;
ls:=textheight('X'); {line spacing = height of the
current text.}
{Set font size and style, get line height for body}
Font.Size:=9;
Font.Style:=[];{restore fontstyle toregular(no style)}
println('Jalan Banten Nomor 8 Bandung');
MoveTo(HMar,vmar+lastline+2);
LineTo(PageWidth-hMar,vmar+lastline+2);
lastline := lastline + 2;
tmp2 := lastline;
MoveTo(Hmar+LastCol+tmp1+mmx*4,Vmar);
LineTo(Hmar+LastCol+tmp1+mmx*4,Vmar+Lastlin
e);
LastLine := 0;
lastCol := lastCol + tmp1 + mmx*8;
Font.size := 11;
println('RENCANA ANGGARAN BIAYA');
tmp1 := TextWidth('RENCANA ANGGARAN
BIAYA');
tmp4 := lastCol;
Font.size := 9;
lastCol := tmp4;
printnoln('Nomor PK/PKP');
tmp3:=lastCol;
```

```
LineTo(PageWidth - Hmar, Vmar + LastLine);
lastLine := lastline + mmx*4;
lastCol := mmx*5;
printNoln('1');
lastCol := mmx*20;
printNoLn(dtMerk);
lastCol := mmx*80;
printNoLn(IntToStr(dtDaya));
lastCol := mmx*100;
println(dtNoSeri);
lastLine := lastLine + mmx*4;
MoveTo(Hmar,Vmar + LastLine);
LineTo(PageWidth - Hmar, Vmar + LastLine);
tmp1 := lastline;
lastline := lastline + mmx;
lastCol := mmx*100;
printNoLn('Rencana');
lastCol := mmx*150;
println('Realisasi');
lastline := lastline + mmx;
MoveTo(Hmar,Vmar + LastLine);
LineTo(PageWidth - Hmar, Vmar + LastLine);
lastline := lastline + mmx;
lastCol := mmx*15;
println('A. Biaya Langsung');
lastCol := lastCol + mmx*5;
println('1. Material');
lastCol := mmx*25;
SetTextAlign(printer.canvas.handle,TA_LEFT);
printNoln('Material Utama');
SetTextAlign(printer.canvas.handle,TA_RIGHT);
lastCol := mmx*130;
with modulData.SQLState3 do
begin
        SQL.clear;
        SQL.Add('SELECT SUM(harga*qty)
        jumlah FROM lap_rab WHERE '+
        'item>=1 and item<=15 and
        kode='+QuotedStr(repRange[j])+
        'and tahun='+repYear[j]);
        Open;
end;

println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
lastCol := mmx*25;
SetTextAlign(printer.canvas.handle,TA_LEFT);
printNoln('Material Bantu');
SetTextAlign(printer.canvas.handle,TA_RIGHT);
lastCol := mmx*130;
with modulData.SQLState3 do
begin
        SQL.clear;
        SQL.Add('SELECT SUM(harga*qty)
        jumlah FROM lap_rab WHERE '+
```

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```
                    'item>=16 and item<=52 and
                    kode='+QuotedStr(repRange[j])+
                    'and tahun='+repYear[j]);
                    Open;
            end;

println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
            lastCol := mmx*25;
            SetTextAlign(printer.canvas.handle,TA_LEFT);
            printnoln('Material Pendukung');
            SetTextAlign(printer.canvas.handle,TA_RIGHT);
            lastCol := mmx*130;
            with modulData.SQLState3 do
            begin
                    SQL.clear;
                    SQL.Add('SELECT SUM(harga*qty)
                    jumlah FROM lap_rab WHERE '+
                    'item>=53 and item<=61 and
                    kode='+QuotedStr(repRange[j])+
                    'and tahun='+repYear[j]);
                    Open;
            end;

println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
            SetTextAlign(printer.canvas.handle,TA_LEFT);
            lastCol := mmx*20;
            println('2. Jasa');
            lastCol := mmx*25;
            SetTextAlign(printer.canvas.handle,TA_LEFT);
            printnoln('Upah Pihak Ketiga');
            SetTextAlign(printer.canvas.handle,TA_RIGHT);
            lastCol := mmx*130;
            with modulData.SQLState3 do
            begin
                    SQL.clear;
                    SQL.Add('SELECT SUM(harga*qty)
                    jumlah FROM lap_rab WHERE '+
                    'item>=62 and item<=62 and
                    kode='+QuotedStr(repRange[j])+
                    'and tahun='+repYear[j]);
                    Open;
            end;

println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
            lastCol := mmx*25;
            SetTextAlign(printer.canvas.handle,TA_LEFT);
            printnoln('Ongkos Angkut');
            SetTextAlign(printer.canvas.handle,TA_RIGHT);
            lastCol := mmx*130;
            with modulData.SQLState3 do
            begin
                    SQL.clear;
                    SQL.Add('SELECT SUM(harga*qty)
                    jumlah FROM lap_rab WHERE '+
```

```
                    'item>=63 and item<=63 and
                    kode='+QuotedStr(repRange[j])+
                    'and tahun='+repYear[j]);
                    Open;
            end;

println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
            lastCol := mmx*25;
            SetTextAlign(printer.canvas.handle,TA_LEFT);
            printnoln('Pengepakan & Bongkar Muat');
            SetTextAlign(printer.canvas.handle,TA_RIGHT);
            lastCol := mmx*130;
            with modulData.SQLState3 do
            begin
                    SQL.clear;
                    SQL.Add('SELECT SUM(harga*qty)
                    jumlah FROM lap_rab WHERE '+
                    'item>=64 and item<=64 and
                    kode='+QuotedStr(repRange[j])+
                    'and tahun='+repYear[j]);
                    Open;
            end;

println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
            lastLine := lastline + mmx;
            MoveTo(Hmar,Vmar + LastLine);
            LineTo(PageWidth - Hmar, Vmar + LastLine);
            lastLine := lastline + mmx;
            lastCol := mmx*15;
            SetTextAlign(printer.canvas.handle,TA_LEFT);
            printnoln('Sub Total (A)');
            SetTextAlign(printer.canvas.handle,TA_RIGHT);
            lastCol := mmx*130;
            with modulData.SQLState3 do
            begin
                    SQL.clear;
                    SQL.Add('SELECT SUM(harga*qty)
                    jumlah FROM lap_rab WHERE '+
                    'item>=1 and item<=64 and
                    kode='+QuotedStr(repRange[j])+
                    'and tahun='+repYear[j]);
                    Open;
            end;

println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
            lastline := lastline + mmx;
            MoveTo(Hmar,Vmar + LastLine);
            LineTo(PageWidth - Hmar, Vmar + LastLine);
            lastline := lastline + mmx;
            lastCol := mmx*15;
            SetTextAlign(printer.canvas.handle,TA_LEFT);
            println('B. Biaya Tidak Langsung');
            lastCol := mmx*20;
            printnoln('Gaji Pengawas');
            SetTextAlign(printer.canvas.handle,TA_RIGHT);
```

```
                                        lastCol := mmx*130;
                                        with modulData.SQLState3 do
                                        begin
                                                SQL.clear;
                                                L.Add('SELECT SUM(harga*qty) jumlah
                                                FROM lap_rab WHERE '+
                                                'item>=79 and item<=79 and
                                                kode='+QuotedStr(repRange[j])+
                                                'and tahun='+repYear[j]);
                                                Open;
                                        end;

println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
                                        lastCol := mmx*20;
                                        SetTextAlign(printer.canvas.handle,TA_LEFT);
                                        printnoln('Gaji Pelaksana');
                                        SetTextAlign(printer.canvas.handle,TA_RIGHT);
                                        lastCol := mmx*130;
                                        with modulData.SQLState3 do
                                        begin
                                                SQL.clear;
                                                SQL.Add('SELECT SUM(harga*qty)
                                                jumlah FROM lap_rab WHERE '+
                                                'item>=80 and item<=80 and
                                                kode='+QuotedStr(repRange[j])+
                                                'and tahun='+repYear[j]);
                                                Open;
                                        end;

println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
                                        lastCol := mmx*20;
                                        SetTextAlign(printer.canvas.handle,TA_LEFT);
                                        printnoln('Uang Makan');
                                        SetTextAlign(printer.canvas.handle,TA_RIGHT);
                                        lastCol := mmx*130;
                                        with modulData.SQLState3 do
                                        begin
                                                SQL.clear;
                                                SQL.Add('SELECT SUM(harga*qty)
                                                jumlah FROM lap_rab WHERE '+
                                                'item>=81 and item<=81 and
                                                kode='+QuotedStr(repRange[j])+
                                                'and tahun='+repYear[j]);
                                                Open;
                                        end;

println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
                                        lastCol := mmx*20;
                                        SetTextAlign(printer.canvas.handle,TA_LEFT);
                                        printnoln('Uang Lembur');
                                        SetTextAlign(printer.canvas.handle,TA_RIGHT);
                                        lastCol := mmx*130;
                                        with modulData.SQLState3 do
                                        begin
                                                SQL.clear;
```

```
                SQL.Add('SELECT SUM(harga*qty)
                jumlah FROM lap_rab WHERE '+
                'item>=82 and item<=82 and
                kode='+QuotedStr(repRange[j])+
                'and tahun='+repYear[j]);
                Open;
        end;

println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
        lastCol := mmx*20;
        SetTextAlign(printer.canvas.handle,TA_LEFT);
        printnoln('Proses Rewering');
        SetTextAlign(printer.canvas.handle,TA_RIGHT);
        lastCol := mmx*130;
        with modulData.SQLState3 do
        begin
                SQL.clear;
                SQL.Add('SELECT SUM(harga*qty)
                jumlah FROM lap_rab WHERE '+
                'item>=65 and item<=71 and
                kode='+QuotedStr(repRange[j])+
                'and tahun='+repYear[j]);
                Open;
        end;

println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
        lastCol := mmx*20;
        SetTextAlign(printer.canvas.handle,TA_LEFT);
        printnoln('Pengujian / Finishing');
        SetTextAlign(printer.canvas.handle,TA_RIGHT);
        lastCol := mmx*130;
        with modulData.SQLState3 do
        begin
                SQL.clear;
                SQL.Add('SELECT SUM(harga*qty)
                jumlah FROM lap_rab WHERE '+
                'item>=72 and item<=78 and
                kode='+QuotedStr(repRange[j])+
                'and tahun='+repYear[j]);
                Open;
        end;

println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
        lastline:=lastline+mmx;
        MoveTo(Hmar,Vmar + LastLine);
        LineTo(PageWidth - Hmar, Vmar + LastLine);
        lastline := lastline + mmx;
        SetTextAlign(printer.canvas.handle,TA_LEFT);
        lastCol := mmx*20;
        printnoln('Sub Total (B)');
        SetTextAlign(printer.canvas.handle,TA_RIGHT);
        lastCol := mmx*130;
        with modulData.SQLState3 do
        begin
                SQL.clear;
```

```
                SQL.Add('SELECT SUM(harga*qty)
                jumlah FROM lap_rab WHERE '+
                'item>=65 and item<=82 and
                kode='+QuotedStr(repRange[j])+
                'and tahun='+repYear[j]);
                Open;
            end;
println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
            lastline := lastline + mmx;
            MoveTo(Hmar,Vmar + LastLine);
            LineTo(PageWidth - Hmar, Vmar + LastLine);
            lastline := lastline + mmx;
            lastCol := mmx*15;
            SetTextAlign(printer.canvas.handle,TA_LEFT);
            printnoln('Sub Jumlah');
            SetTextAlign(printer.canvas.handle,TA_RIGHT);
            lastCol := mmx*130;
            with modulData.SQLState3 do
            begin
                SQL.clear;
                SQL.Add('SELECT SUM(harga*qty)
                jumlah FROM lap_rab WHERE '+
                'item>=1 and item<=82 and
                kode='+QuotedStr(repRange[j])+
                'and tahun='+repYear[j]);
                Open;
            end;
println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
            lastline := lastline + mmx;
            MoveTo(Hmar,Vmar + LastLine);
            LineTo(PageWidth - Hmar, Vmar + LastLine);
            lastline := lastline + mmx;
            lastCol := mmx*15;
            SetTextAlign(printer.canvas.handle,TA_LEFT);
            println('PPn 10%');
            lastline := lastline + mmx;
            MoveTo(Hmar,Vmar + LastLine);
            LineTo(PageWidth - Hmar, Vmar + LastLine);
            MoveTo(Hmar+mmx*135,Vmar + tmp1);
            LineTo(Hmar+mmx*135,Vmar + LastLine);
            MoveTo(Hmar+mmx*80,Vmar + tmp1);
            LineTo(Hmar+mmx*80,Vmar + LastLine);
            lastline := lastline + mmx;
            printnoln('JUMLAH');
            SetTextAlign(printer.canvas.handle,TA_RIGHT);
            lastCol := mmx*130;
            with modulData.SQLState3 do
            begin
                SQL.clear;
                SQL.Add('SELECT SUM(harga*qty)
                jumlah FROM lap_rab WHERE '+
                'item>=1 and item<=82 and
                kode='+QuotedStr(repRange[j])+
```

```
println('Menyetujui');
println('Manajer Unit');
lastline := lastline + mmx*20;
Font.Style := [fsUnderline];
println('Ukun Kurnia');
Font.Style := [];
lastline := lastline + mmx*5;
MoveTo(Hmar+mmx*135,Vmar + tmp1);
LineTo(Hmar+mmx*135,Vmar + LastLine);
Rectangle(Hmar,Vmar,PageWidth-
Hmar,lastLine+Vmar);

//Halaman 2
NewPage;
lastLine:=0;
lastCol := 0;
Draw(hmar,vmar,Image2.Picture.Graphic);
LastCol := Image2.Picture.Graphic.Width+20;
Font.Name:='Arial';
{Set font size and style, Print Heading}
Font.Size := 10;
Font.Style:=[fsBold];
SetTextAlign(printer.canvas.handle,TA_LEFT);
println('PT. PLN (PERSERO) J&P');
println('UNIT PRODUKSI BANDUNG');
tmp1 := TextWidth('UNIT PRODUKSI
BANDUNG');
lastLine := lastLine + mmx*2;
ls:=textheight('X');{line spacing = height of the
current text.}
{Set font size and style, get line height for body}
Font.Size:=9;
Font.Style:=[];{restore font style to regular (no
style)}
println('Jalan Banten Nomor 8 Bandung');
MoveTo(HMar,vmar+lastline+2);
LineTo(PageWidth-hMar,vmar+lastline+2);
lastline := lastline + 2;
tmp2 := lastline;
MoveTo(Hmar+LastCol+tmp1+mmx*4,Vmar);
LineTo(Hmar+LastCol+tmp1+mmx*4,Vmar+Lastline);
LastLine := 0;
lastCol := lastCol + tmp1 + mmx*8;
Font.size := 11;
println('RENCANA ANGGARAN BIAYA');
tmp1 := TextWidth('RENCANA ANGGARAN
BIAYA');
tmp4 := lastCol;
Font.size := 9;
lastCol := tmp4;
printnoln('Nomor PK/PKP');
tmp3:=lastCol;
lastCol := tmp3+mmx*2;
println(': '+dtNomor);
lastCol := tmp4;
```

```
                printnoln('Tanggal');
                lastCol := tmp3+mmx*2;
                println(': '+dtTgl);
                MoveTo(Hmar+tmp4+tmp1+mmx*4,Vmar);
                LineTo(Hmar+tmp4+tmp1+mmx*4,Vmar+tmp2);
                lastLine := 0;
                lastCol := tmp4 + tmp1 + mmx*8;
                println('REN-2');
                println('Hal. 2/3');
                println('Revisi');
                lastline := tmp2;
                lastCol := mmx*2;
                println('');
                println('Pekerjaan');
                println('Merk');
                println('Nomor Seri');
                println('Pemilik');
                lastline := tmp2;
                lastCol := mmx*30;
                println('');
                println(': Perbaikan Trafo Distribusi');
                println(': '+dtMerk);
                println(': '+dtNoSeri);
                println(': '+dtPemilik);
                lastline := tmp2;
                lastCol := PageWidth div 2 - Hmar;
                println('');
                println('Surat Permintaan');
                println('Daya');
                println('Tanggal');
                println('');
                lastCol := lastCol + mmx*30;
                lastline := tmp2;
                println('');
                println(': '+dtTug);
                println(': '+IntToStr(dtdaya));
                println(': '+dtTglTrafo);
                println('');
                lastCol :=0;
                println('');
                tmp1 := lastline;
                Pen.Width := mmx div 2;
                MoveTo(Hmar,Vmar + LastLine);
                LineTo(PageWidth - Hmar, Vmar + LastLine);
                Pen.Width := 1;
                lastline := lastLine + mmx;
                SetTextAlign(printer.canvas.handle,TA_CENTER);
        LastLine := lastLine + (mmx*10-TextHeight('X')) div 2;
                lastCol := mmx*5;
                printNoLn('No.');
                lastCol := mmx*40;
                printnoln('Nama Barang');
                lastCol := mmx*75;
                printnoln('Sat.');
                lastLine := tmp1 + mmx;
```

```
lastCol := mmx*80+(mmx*132-mmx*80)div 2;
printnoln('Rencana');
lastCol := mmx*132+((pageWidth-Hmar)-
(Hmar+mmx*132))div 2;
println('Realisasi');
lastLine := lastline + mmx;
MoveTo(Hmar+mmx*80,Vmar + LastLine);
LineTo(PageWidth - Hmar, Vmar + LastLine);
tmp2 := lastline;
LastLine := lastLine + (mmx*10 - (tmp2-tmp1) -
textHeight('X')) div 2;
lastCol := mmx*85;
printnoln('Qty');
lastCol := mmx*100;
printnoln('Harga');
lastCol := mmx*121;
printnoln('Jumlah');
lastCol := mmx*138;
printnoln('Kode 7');
lastCol := mmx*150;
printnoln('Jumlah');
lastCol := mmx*162;
printnoln('Kode 3');
lastCol := mmx*174;
println('Jumlah');
lastline := tmp1+mmx*10;
Pen.Width := mmx div 2;
MoveTo(Hmar,Vmar + LastLine);
LineTo(PageWidth - Hmar, Vmar + LastLine);
Pen.Width := 1;
lastline := lastline + mmx;
lastCol := mmx*11;
SetTextAlign(printer.canvas.handle,TA_LEFT);
with modulData.SQLState do
begin
        SQL.Clear;
        SQL.Add('SELECT kode, keterangan,
        satuan FROM item ORDER BY kode');
        Open;
end;
with moduldata.SQLState2 do
begin
        SQL.Clear;
        SQL.Add('SELECT item,qty,harga FROM
lap_rab WHERE kode='+QuotedStr(repRange[j])+
'and tahun='+repYear[j]+' ORDER BY item');
        Open;
end;
font.Style:= [fsBold,fsUnderline];
lastCol := mmx*1;
printnoLn('A.');
lastCol := mmx*11;
println('BIAYA LANGSUNG');
font.Style:= [fsUnderline];
lastCol := mmx*5;
```

```
                                        printnoLn('I.');
                                        lastCol := mmx*11;
                                        println('Material Utama');
                                        font.Style:= [fsBold];
                                        println('Kumparan Primer');
                                        font.Style:= [];
                                        for i:=1 to 11 do {1-11}
                                        begin
                                                lastcol := mmx*9;
    SetTextAlign(printer.canvas.handle,TA_RIGHT);
                                                printNoln(IntToStr(i));
                                                lastCol := mmx*89;

    printNoLn(modulData.SQLState2.FieldByName('qty').asstring);
                                                lastCol := mmx*109;
printNoLn(Format('%.0n',[modulData.SQLState2.FieldByName('harga').asFloat]));
                                                lastCol := mmx*131;
    printNoLn(Format('%.0n',[modulData.SQLState2.FieldByName('harga').asFloat*modulD
    ata.SQLState2.FieldByName('qty').AsFloat]));
                                                lastCol := mmx*75;

    SetTextAlign(printer.canvas.handle,TA_CENTER);

    printNoLn(modulData.SQLState.FieldByName('satuan').AsString);

    SetTextAlign(printer.canvas.handle,TA_LEFT);
                                                lastcol := mmx*11;

    println(modulData.SQLState.FieldByName('keterangan').AsString);
                                                MoveTo(Hmar,Vmar + LastLine);
                                                LineTo(PageWidth - Hmar, Vmar +
                                                LastLine);
                                                moduldata.SqlState.Next;
                                                moduldata.SqlState2.Next;
                                        end;
                                        with modulData.SQLState3 do
                                        begin
                                                SQL.clear;
                                                SQL.Add('SELECT SUM(harga*qty)
                                                jumlah FROM lap_rab WHERE '+
                                                'item>=1 and item<=11 and
                                                kode='+QuotedStr(repRange[j])+
                                                'and tahun='+repYear[j]);
                                                Open;
                                        end;
                                        lastCol := mmx*68;
                                        SetTextAlign(printer.canvas.handle,TA_RIGHT);
                                        printNoln('Jumlah');
                                        lastCol := mmx*131;

    println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
                                        SetTextAlign(printer.canvas.handle,TA_LEFT);
                                        lastCol := mmx*11;
                                        font.Style:= [fsBold];
                                        println('Kumparan Sekunder');
```

```
                                        font.Style:= [];
                                        for i:=1 to 3 do {12-14}
                                        begin
                                                lastcol := mmx*9;

SetTextAlign(printer.canvas.handle,TA_RIGHT);
                                                printNoln(IntToStr(i));
                                                lastCol := mmx*89;

printNoLn(modulData.SQLState2.FieldByName('qty').asstring);
                                                lastCol := mmx*109;

printNoLn(Format('%.0n',[modulData.SQLState2.FieldByName('harga').asFloat]));
                                                lastCol := mmx*131;
printNoLn(Format('%.0n',[modulData.SQLState2.FieldByName('harga').asFloat*modulD
ata.SQLState2.FieldByName('qty').AsFloat]));
                                                lastCol := mmx*75;

SetTextAlign(printer.canvas.handle,TA_CENTER);

printNoLn(modulData.SQLState.FieldByName('satuan').AsString);

SetTextAlign(printer.canvas.handle,TA_LEFT);
                                                lastcol := mmx*11;

println(modulData.SQLState.FieldByName('keterangan').AsString);
                                                MoveTo(Hmar,Vmar + LastLine);
                                                LineTo(PageWidth - Hmar, Vmar +
                                                LastLine);
                                                moduldata.SqlState.Next;
                                                moduldata.SqlState2.Next;
                                        end;
                                        with modulData.SQLState3 do
                                        begin
                                                SQL.clear;
                                                SQL.Add('SELECT SUM(harga*qty)
                                                jumlah FROM lap_rab WHERE '+
                                                'item>=12 and item<=14 and
                                                kode='+QuotedStr(repRange[j])+
                                                'and tahun='+repYear[j]);
                                                Open;
                                        end;
                                        lastCol := mmx*68;
                                        SetTextAlign(printer.canvas.handle,TA_RIGHT);
                                        printNoln('Jumlah');
                                        lastCol := mmx*131;

println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
                                        lastcol := mmx*9;
                                        SetTextAlign(printer.canvas.handle,TA_RIGHT);
                                        printNoln('1');
                                        lastCol := mmx*89;

printNoLn(modulData.SQLState2.FieldByName('qty').asstring);
                                        lastCol := mmx*109;
```

```
printNoLn(Format('%.0n',[modulData.SQLState2.FieldByName('harga').asFloat]));
                                        lastCol := mmx*131;
printNoLn(Format('%.0n',[modulData.SQLState2.FieldByName('harga').asFloat*modulD
ata.SQLState2.FieldByName('qty').AsFloat]));
                                        lastCol := mmx*75;
                                        SetTextAlign(printer.canvas.handle,TA_CENTER);
printNoLn(modulData.SQLState.FieldByName('satuan').AsString);
                                        SetTextAlign(printer.canvas.handle,TA_LEFT);
                                        lastCol := mmx*11;
                                        println('Minyak Baru'); {15}
                                        lastline := lastline + mmx;
                                        Pen.Width := mmx div 2;
                                        MoveTo(Hmar,Vmar + LastLine);
                                        LineTo(PageWidth - Hmar, Vmar + LastLine);
                                        Pen.Width := 1;
                                        lastline := lastline + mmx;
                                        with modulData.SQLState3 do
                                        begin
                                                SQL.clear;
                                                SQL.Add('SELECT SUM(harga*qty)
                                                jumlah FROM lap_rab WHERE '+
                                                'item>=1 and item<=15 and
                                                kode='+QuotedStr(repRange[j])+
                                                'and tahun='+repYear[j]);
                                                Open;
                                        end;
                                        SetTextAlign(printer.canvas.handle,TA_LEFT);
                                        font.Style:= [fsBold];
                                        printNoln('Jumlah Material Utama');
                                        font.Style:= [];
                                        lastCol := mmx*131;
                                        SetTextAlign(printer.canvas.handle,TA_RIGHT);

println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
                                        SetTextAlign(printer.canvas.handle,TA_LEFT);
                                        lastCol := mmx*11;
                                        lastline := lastline + mmx;
                                        Pen.Width := mmx div 2;
                                        MoveTo(Hmar,Vmar + LastLine);
                                        LineTo(PageWidth - Hmar, Vmar + LastLine);
                                        Pen.Width := 1;
                                        lastline := lastline + mmx;
                                        font.Style:= [fsUnderline];
                                        lastCol := mmx*5;
                                        printnoLn('I.');
                                        lastCol := mmx*11;
                                        println('Material Bantu');
                                        font.Style:= [fsBold];
                                        println('Penggantian Komponen');
                                        font.Style:= [];
                                        moduldata.SQLState.Next;
                                        moduldata.SqlState2.Next;
                                        for i:=1 to 28 do {16-43}
                                        begin
```

```
                                        lastcol := mmx*9;

SetTextAlign(printer.canvas.handle,TA_RIGHT);
                                        printNoln(IntToStr(i));
                                        lastCol := mmx*89;

printNoLn(modulData.SQLState2.FieldByName('qty').asstring);
                                        lastCol := mmx*109;
printNoLn(Format('%.0n',[modulData.SQLState2.FieldByName('harga').asFloat]));
                                        lastCol := mmx*131;
printNoLn(Format('%.0n',[modulData.SQLState2.FieldByName('harga').asFloat*modulD
ata.SQLState2.FieldByName('qty').AsFloat])); lastCol := mmx*75;
SetTextAlign(printer.canvas.handle,TA_CENTER);
printNoLn(modulData.SQLState.FieldByName('satuan').AsString);
SetTextAlign(printer.canvas.handle,TA_LEFT); lastcol := mmx*11;
println(modulData.SQLState.FieldByName('keterangan').AsString);
                                        MoveTo(Hmar,Vmar + LastLine);
                                        LineTo(PageWidth - Hmar, Vmar +
                                        LastLine);
                                        moduldata.SqlState.Next;
                                        moduldata.SqlState2.Next;
                                end;
                                with modulData.SQLState3 do
                                begin
                                        SQL.clear;
                                        SQL.Add('SELECT SUM(harga*qty)
                                        jumlah FROM lap_rab WHERE '+
                                        'item>=14 and item<=41 and
                                        kode='+QuotedStr(repRange[j])+
                                        'and tahun='+repYear[j]);
                                        Open;
                                end;
                                lastCol := mmx*68;
                                SetTextAlign(printer.canvas.handle,TA_RIGHT);
                                printNoln('Jumlah');
                                lastCol := mmx*131;

println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
                                SetTextAlign(printer.canvas.handle,TA_LEFT);
                                lastCol := mmx*11;
                                font.Style:= [fsBold];
                                println('Ganti Insolation & Board');
                                font.Style:= [];
                                for i:=1 to 9 do {44-52}
                                begin
                                        lastcol := mmx*9;

SetTextAlign(printer.canvas.handle,TA_RIGHT);
                                        printNoln(IntToStr(i));
                                        lastCol := mmx*89;

printNoLn(modulData.SQLState2.FieldByName('qty').asstring); lastCol := mmx*109;
printNoLn(Format('%.0n',[modulData.SQLState2.FieldByName('harga').asFloat]));
```

```
                                        lastCol := mmx*131;
printNoLn(Format('%.0n',[modulData.SQLState2.FieldByName('harga').asFloat*modulD
ata.SQLState2.FieldByName('qty').AsFloat])); lastCol := mmx*75;
SetTextAlign(printer.canvas.handle,TA_CENTER);
printNoLn(modulData.SQLState.FieldByName('satuan').AsString);
SetTextAlign(printer.canvas.handle,TA_LEFT); lastcol := mmx*11;
println(modulData.SQLState.FieldByName('keterangan').AsString);
                                        MoveTo(Hmar,Vmar + LastLine);
                                        LineTo(PageWidth - Hmar, Vmar +
                                        LastLine);
                                        moduldata.SqlState.Next;
                                        moduldata.SqlState2.Next;
                                end;
                                with modulData.SQLState3 do
                                begin
                                        SQL.clear;
                                        SQL.Add('SELECT SUM(harga*qty)
                                        jumlah FROM lap_rab WHERE '+
                                        'item>=44 and item<=52 and
                                        kode='+QuotedStr(repRange[j])+
                                        'and tahun='+repYear[j]);
                                        Open;
                                end;
                                lastCol := mmx*68;
                                SetTextAlign(printer.canvas.handle,TA_RIGHT);
                                printNoln('Jumlah');
                                lastCol := mmx*131;

println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
                                SetTextAlign(printer.canvas.handle,TA_LEFT);
                                lastCol := mmx*11;
                                lastline := lastline + mmx;
                                Pen.Width := mmx div 2;
                                MoveTo(Hmar,Vmar + LastLine);
                                LineTo(PageWidth - Hmar, Vmar + LastLine);
                                Pen.Width := 1;
                                lastline := lastline + mmx;
                                with modulData.SQLState3 do
                                begin
                                        SQL.clear;
                                        SQL.Add('SELECT SUM(harga*qty)
                                        jumlah FROM lap_rab WHERE '+
                                        'item>=16 and item<=52 and
                                        kode='+QuotedStr(repRange[j])+
                                        'and tahun='+repYear[j]);
                                        Open;
                                end;
                                font.Style:= [fsBold];
                                SetTextAlign(printer.canvas.handle,TA_LEFT);
                                printNoln('Jumlah Material Bantu');
                                font.Style:= [];
                                SetTextAlign(printer.canvas.handle,TA_RIGHT);
                                lastCol := mmx*131;

println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
```

```
lastline := lastline + mmx;
Pen.Width := mmx div 2;
MoveTo(Hmar,Vmar + LastLine);
LineTo(PageWidth - Hmar, Vmar + LastLine);
Pen.Width := 1;
Rectangle(Hmar,Vmar,PageWidth-
Hmar,lastLine+Vmar);

MoveTo(hmar,tmp1+Vmar);
LineTo(hmar,Vmar+lastline);
MoveTo(hmar+mmx*10,tmp1+Vmar);
LineTo(hmar+mmx*10,Vmar+lastline);
MoveTo(hmar+mmx*70,tmp1+Vmar);
LineTo(hmar+mmx*70,Vmar+lastline);
MoveTo(hmar+mmx*80,tmp1+Vmar);
LineTo(hmar+mmx*80,Vmar+lastline);
MoveTo(hmar+mmx*90,tmp2+Vmar);
LineTo(hmar+mmx*90,Vmar+lastline);
MoveTo(hmar+mmx*110,tmp2+Vmar);
LineTo(hmar+mmx*110,Vmar+lastline);
MoveTo(hmar+mmx*132,tmp1+Vmar);
LineTo(hmar+mmx*132,Vmar+lastline);
MoveTo(hmar+mmx*144,tmp2+Vmar);
LineTo(hmar+mmx*144,Vmar+lastline);
MoveTo(hmar+mmx*156,tmp2+Vmar);
LineTo(hmar+mmx*156,Vmar+lastline);
MoveTo(hmar+mmx*168,tmp2+Vmar);
LineTo(hmar+mmx*168,Vmar+lastline);

Font.Style := [fsBold];
Font.Style := [];

//Halaman 3
NewPage;
lastLine:=0;
lastCol := 0;
Draw(hmar,vmar,Image2.Picture.Graphic);
LastCol := Image2.Picture.Graphic.Width+20;
Font.Name:='Arial';
{Set font size and style, Print Heading}
Font.Size := 10;
Font.Style:=[fsBold];
SetTextAlign(printer.canvas.handle,TA_LEFT);
println('PT. PLN (PERSERO) J&P');
println('UNIT PRODUKSI BANDUNG');
tmp1 := TextWidth('UNIT PRODUKSI
BANDUNG');
lastLine := lastLine + mmx*2;
ls:=textheight('X');{line spacing = height of the
current text.}
{Set font size and style, get line height for body}
Font.Size:=9;
Font.Style:=[];{restore font style to regular (no
style)}
println('Jalan Banten Nomor 8 Bandung');
```

```
MoveTo(HMar,vmar+lastline+2);
LineTo(PageWidth-hMar,vmar+lastline+2);
lastline := lastline + 2;
tmp2 := lastline;
MoveTo(Hmar+LastCol+tmp1+mmx*4,Vmar);
LineTo(Hmar+LastCol+tmp1+mmx*4,Vmar+Lastline);
LastLine := 0;
lastCol := lastCol + tmp1 + mmx*8;
Font.size := 11;
println('RENCANA ANGGARAN BIAYA');
tmp1 := TextWidth('RENCANA ANGGARAN
BIAYA');
tmp4 := lastCol;
Font.size := 9;
lastCol := tmp4;
printnoln('Nomor PK/PKP');
tmp3:=lastCol;
lastCol := tmp3+mmx*2;
println(': '+dtNomor);
lastCol := tmp4;
printnoln('Tanggal');
lastCol := tmp3+mmx*2;
println(': '+dtTgl);
MoveTo(Hmar+tmp4+tmp1+mmx*4,Vmar);
LineTo(Hmar+tmp4+tmp1+mmx*4,Vmar+tmp2);
lastLine := 0;
lastCol := tmp4 + tmp1 + mmx*8;
println('REN-2');
println('Hal. 3/3');
println('Revisi');
lastline := tmp2;
lastCol := mmx*2;
println('');
println('Pekerjaan');
println('Merk / Daya');
println('Nomor Seri');
println('Pemilik');
lastline := tmp2;
lastCol := mmx*30;
println('');
println(': Perbaikan Trafo Distribusi');
println(': '+dtMerk);
println(': '+dtNoSeri);
println(': '+dtPemilik);
lastline := tmp2;
lastCol := PageWidth div 2 - Hmar;
println('');
println('Surat Permintaan');
println('Daya');
println('Tanggal');
println('');
lastCol := lastCol + mmx*30;
lastline := tmp2;
println('');
println(': '+dtTug);
```

```
                                        font.Style := [fsUnderline];
                                        println('Material Pendukung');
                                        font.Style := [fsBold];
                                        println('Biaya Pengecatan');
                                        font.Style := [];
                                        for i := 1 to 9 do{53-61}
                                        begin
                                                lastcol := mmx*9;

SetTextAlign(printer.canvas.handle,TA_RIGHT);
                                                printNoln(IntToStr(i));
                                                lastCol := mmx*89;

printNoLn(modulData.SQLState2.FieldByName('qty').asstring);
                                                lastCol := mmx*109;

printNoLn(Format('%.0n',[modulData.SQLState2.FieldByName('harga').asFloat]));
                                                lastCol := mmx*131;
printNoLn(Format('%.0n',[modulData.SQLState2.FieldByName('harga').asFloat*modulD
ata.SQLState2.FieldByName('qty').AsFloat]));
                                                lastCol := mmx*75;

SetTextAlign(printer.canvas.handle,TA_CENTER);

printNoLn(modulData.SQLState.FieldByName('satuan').AsString);

SetTextAlign(printer.canvas.handle,TA_LEFT);
                                                lastcol := mmx*11;

println(modulData.SQLState.FieldByName('keterangan').AsString);
                                                MoveTo(Hmar,Vmar + LastLine);
                                              LineTo(PageWidth-Hmar, Vmar + LastLine);
                                                moduldata.SqlState.Next;
                                                moduldata.SqlState2.Next;
                                        end;
                                        with modulData.SQLState3 do
                                        begin
                                                SQL.clear;
                                                SQL.Add('SELECT SUM(harga*qty)
                                                jumlah FROM lap_rab WHERE '+
                                                'item>=53 and item<=61 and
                                                kode='+QuotedStr(repRange[j])+
                                                'and tahun='+repYear[j]);
                                                Open;
                                        end;
                                        lastCol := mmx*68;
                                        SetTextAlign(printer.canvas.handle,TA_RIGHT);
                                        printNoln('Jumlah');
                                        lastCol := mmx*131;

println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
                                        SetTextAlign(printer.canvas.handle,TA_LEFT);
                                        lastCol := mmx*5;
                                        printNoln('IV.');
                                        lastCol := mmx*11;
```

```
                                        font.Style := [fsUnderline];
                                        println('Jasa');
                                        font.Style := [];
                                        for i := 1 to 3 do{62-64}
                                        begin
                                                lastcol := mmx*9;

SetTextAlign(printer.canvas.handle,TA_RIGHT);
                                                printNoln(IntToStr(i));
                                                lastCol := mmx*89;
printNoLn(modulData.SQLState2.FieldByName('qty').asstring);
                                                lastCol := mmx*109;

printNoLn(Format('%.0n',[modulData.SQLState2.FieldByName('harga').asFloat]));
                                                lastCol := mmx*131;
printNoLn(Format('%.0n',[modulData.SQLState2.FieldByName('harga').asFloat*modulD
ata.SQLState2.FieldByName('qty').AsFloat]));
                                                lastCol := mmx*75;

SetTextAlign(printer.canvas.handle,TA_CENTER);

printNoLn(modulData.SQLState.FieldByName('satuan').AsString);

SetTextAlign(printer.canvas.handle,TA_LEFT);
                                                lastcol := mmx*11;

println(modulData.SQLState.FieldByName('keterangan').AsString);
                                                MoveTo(Hmar,Vmar + LastLine);
                                                LineTo(PageWidth - Hmar, Vmar +
                                                LastLine);
                                                moduldata.SqlState.Next;
                                                moduldata.SqlState2.Next;
                                        end;
                                        with modulData.SQLState3 do
                                        begin
                                                SQL.clear;
                                                SQL.Add('SELECT SUM(harga*qty)
                                                jumlah FROM lap_rab WHERE '+
                                                'item>=1 and item<=64 and
                                                kode='+QuotedStr(repRange[j])+
                                                'and tahun='+repYear[j]);
                                                Open;
                                        end;
                                        Pen.Width := mmx div 2;
                                        MoveTo(Hmar,Vmar + LastLine);
                                        LineTo(PageWidth - Hmar, Vmar + LastLine);
                                        Pen.Width := 1;
                                        lastline := lastline + mmx;
                                        font.Style:= [fsBold];
                                        SetTextAlign(printer.canvas.handle,TA_LEFT);
                                        printNoln('JUMLAH BIAYA LANGSUNG');
                                        font.Style:= [];
                                        SetTextAlign(printer.canvas.handle,TA_RIGHT);
                                        lastCol := mmx*131;
```

```
println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
                                        lastline := lastline + mmx;
                                        Pen.Width := mmx div 2;
                                        MoveTo(Hmar,Vmar + LastLine);
                                        LineTo(PageWidth - Hmar, Vmar + LastLine);
                                        Pen.Width := 1;
                                        lastline := lastline + mmx;
                                        SetTextAlign(printer.canvas.handle,TA_LEFT);
                                        font.Style := [fsBold, fsUnderline];
                                        LastCol := mmx*1;
                                        printNoLn('B.');
                                        lastCol := mmx*11;
                                        printLn('BIAYA TIDAK LANGSUNG');
                                        font.Style := [fsUnderline];
                                        LastCol := mmx*5;
                                        printNoLn('I.');
                                        lastCol := mmx*11;
                                        println('Proses Rewering');
                                        font.Style := [];
                                        for i := 1 to 7 do{65-71}
                                        begin
                                                lastcol := mmx*9;

SetTextAlign(printer.canvas.handle,TA_RIGHT);
                                                printNoln(IntToStr(i));
                                                lastCol := mmx*89;

printNoLn(modulData.SQLState2.FieldByName('qty').asstring);
                                                lastCol := mmx*109;

printNoLn(Format('%.0n',[modulData.SQLState2.FieldByName('harga').asFloat]));
                                                lastCol := mmx*131;
printNoLn(Format('%.0n',[modulData.SQLState2.FieldByName('harga').asFloat*modulD
ata.SQLState2.FieldByName('qty').AsFloat]));
                                                lastCol := mmx*75;

SetTextAlign(printer.canvas.handle,TA_CENTER);

printNoLn(modulData.SQLState.FieldByName('satuan').AsString);

SetTextAlign(printer.canvas.handle,TA_LEFT);
                                                lastcol := mmx*11;

println(modulData.SQLState.FieldByName('keterangan').AsString);
                                                MoveTo(Hmar,Vmar + LastLine);
                                                LineTo(PageWidth - Hmar, Vmar +
                                                LastLine);
                                                moduldata.SqlState.Next;
                                                moduldata.SqlState2.Next;
                                        end;
                                        with modulData.SQLState3 do
                                        begin
                                                SQL.clear;
```

```
                                        SQL.Add('SELECT SUM(harga*qty)
                                        jumlah FROM lap_rab WHERE '+
                                        'item>=65 and item<=71 and
                                        kode='+QuotedStr(repRange[j])+
                                        'and tahun='+repYear[j]);
                                        Open;
                                end;
                                lastCol := mmx*68;
                                SetTextAlign(printer.canvas.handle,TA_RIGHT);
                                printNoln('Jumlah');
                                lastCol := mmx*131;
println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
                                SetTextAlign(printer.canvas.handle,TA_LEFT);
                                font.Style := [fsUnderline];
                                LastCol := mmx*5;
                                printNoLn('II.');
                                lastCol := mmx*11;
                                println('Pengujian/Finishing');
                                font.Style := [];
                                for i := 1 to 7 do{72-78}
                                begin
                                        lastcol := mmx*9;

SetTextAlign(printer.canvas.handle,TA_RIGHT);
                                        printNoln(IntToStr(i));
                                        lastCol := mmx*89;

printNoLn(modulData.SQLState2.FieldByName('qty').asstring);
                                        lastCol := mmx*109;

printNoLn(Format('%.0n',[modulData.SQLState2.FieldByName('harga').asFloat]));
                                        lastCol := mmx*131;
printNoLn(Format('%.0n',[modulData.SQLState2.FieldByName('harga').asFloat*modulD
ata.SQLState2.FieldByName('qty').AsFloat]));
                                        lastCol := mmx*75;

SetTextAlign(printer.canvas.handle,TA_CENTER);

printNoLn(modulData.SQLState.FieldByName('satuan').AsString);

SetTextAlign(printer.canvas.handle,TA_LEFT);
                                        lastcol := mmx*11;

println(modulData.SQLState.FieldByName('keterangan').AsString);
                                        MoveTo(Hmar,Vmar + LastLine);
                                        LineTo(PageWidth - Hmar, Vmar +
                                        LastLine);
                                        moduldata.SqlState.Next;
                                        moduldata.SqlState2.Next;
                                end;
                                with modulData.SQLState3 do
                                begin
                                        SQL.clear;
                                        SQL.Add('SELECT SUM(harga*qty)
                                        jumlah FROM lap_rab WHERE '+
```

```
                    'item>=72 and item<=78 and
                    kode='+QuotedStr(repRange[j])+
                    'and tahun='+repYear[j]);
                    Open;
            end;
            lastCol := mmx*68;
            SetTextAlign(printer.canvas.handle,TA_RIGHT);
            printNoln('Jumlah');
            lastCol := mmx*131;

println(Format('%.0n',[modulData.SQLState3.FieldByName('jumlah').AsFloat]));
            SetTextAlign(printer.canvas.handle,TA_LEFT);
            font.Style := [fsUnderline];
            LastCol := mmx*5;
            printNoLn('III.');
            lastCol := mmx*11;
            println('Ongkos Kerja/Jasa Perbaikan');
            font.Style := [];
            for i := 1 to 4 do{79-82}
            begin
                    lastcol := mmx*9;

SetTextAlign(printer.canvas.handle,TA_RIGHT);
                    printNoln(IntToStr(i));
                    lastCol := mmx*89;

printNoLn(modulData.SQLState2.FieldByName('qty').asstring);
                    lastCol := mmx*109;

printNoLn(Format('%.0n',[modulData.SQLState2.FieldByName('harga').asFloat]));
                    lastCol := mmx*131;
printNoLn(Format('%.0n',[modulData.SQLState2.FieldByName('harga').asFloat*modulD
ata.SQLState2.FieldByName('qty').AsFloat]));
                    lastCol := mmx*75;

SetTextAlign(printer.canvas.handle,TA_CENTER);

printNoLn(modulData.SQLState.FieldByName('satuan').AsString);

SetTextAlign(printer.canvas.handle,TA_LEFT);
                    lastcol := mmx*11;

println(modulData.SQLState.FieldByName('keterangan').AsString);
                    MoveTo(Hmar,Vmar + LastLine);
                    LineTo(PageWidth - Hmar, Vmar +
                    LastLine);
                    moduldata.SqlState.Next;
                    moduldata.SqlState2.Next;
            end;
            with modulData.SQLState3 do
            begin
                    SQL.clear;
                    SQL.Add('SELECT SUM(harga*qty)
                    jumlah FROM lap_rab WHERE '+
```

```
                                        lastline := lastLine + mmx*5;
                                        Rectangle(Hmar,Vmar,PageWidth-
                                        Hmar,lastLine+Vmar);
                                end;
                                if j<RepRange.Count-1 then
                                        NewPage;
                        end;
                        endDoc
                end;
end;
procedure TfrmCetakLapRAB.BitBtn2Click(Sender: TObject);
var
        lsKode, lsTahun: TStrings;
        i: integer;
        fmtSetting: TFormatSettings;
        dtKode, dtTahun: string;
        tgl: TDate;
begin
        GetLocaleFormatSettings(LCID_INSTALLED,fmtSetting);
        lsKode := TStringList.Create;
        lsTahun := TStringList.Create;
        try
                for i:= grLaporan.Selection.Top to grLaporan.Selection.Bottom do
                begin
                        tgl := StrToDate(grLaporan.Cells[1,i],fmtSetting);
                        dtTahun := IntToStr(YearOf(tgl));
                        dtKode := grLaporan.Cells[0,i];
                        lsKode.Add(dtKode);
                        lsTahun.Add(dtTahun);
                        with modulData.SQLState do
                        begin
                                SQL.Clear;
                                SQL.Add('UPDATE print SET print=print+1 WHERE kode='
                                +QuotedStr(dtKode)+' and tahun='+dtTahun+' and form=2');
                                ExecSQL(true);
                                if rowsAffected=0 then
                                ShowMessage('Maaf, ada kesalahan pada server database');
                                SQL.Clear;
                        end;
                end;
                CetakLaporan(lsKode,lsTahun);
        finally
                lsKode.Free;
                lsTahun.Free;
        end;
        RefreshControl;
end;
procedure TfrmCetakLapRAB.Button2Click(Sender: TObject);
begin
        if MessageDlg('Anda yakin menutup jendela ini?',mtConfirmation,
                        [mbYes,mbCancel],0)=mrYes then
                close;
end;

end.
```

PT PLN (PERSERO)
J&P
JASA & PRODUKSI

Quality Endorsed Company
ISO 9002 Lic 11462
Standars Australia

mor : 855/30/UPBDG/2004
rat Sdr No : 812/KP/FTIK-IFSI/UNIKOM/IX/2004
mpiran : 3 (tiga) Lembar
at : Biasa
rihal : Praktik Industri

21 Oktober 2004

KEPADA Yth,

Kepala
Dekan Fakultas Teknik dan ilmu komputer
Universitas komputer Indonesia
Jl. Dipati Ukur No. 114-116
BANDUNG 40132

Menunjuk surat Saudara Nomor 812/KP/FTIK-IFSI/UNIKOM/IX/2004 tanggal 30 September 2004 perihal Permohonan Tempat Praktik Industri, dengan ini kami beritahukan bahwa permohonan tersebut dapat dikabulkan dengan nama Mahasiswa :

No	NAMA	NIM	JURUSAN
1	MUHAMAD IMAN P	10101262	S-1
2	M. RASYID RIDHA	10101268	S-1
3	JEKY FERNANDES	10101256	S-1

Pelaksanaan Kerja Praktek mulai Tanggal 25 Oktober 2004 s/d 26 November 2004, dan yang bersangkutan harus mentaati semua peraturan yang berlaku di PT PLN (Persero) Jasa & Produksi Unit Produksi Bandung, dengan mengisi Surat Pernyataan terlampir.

Demikian, atas perhatiannya diucapkan terima kasih.

MANAJER,

UKUN KURNIA

UNIT PRODUKSI BANDUNG (Persero)

PT. PLN (Persero) J&P Unit Produksi Bandung
Jl. Banten No.8 Bandung 40272 Telp. : (022) 7208176, 7204808 Fax. : (022) 7204809
Email : upbdg@pln-jp.co.id Homepage : www.pln-jp.co.id

PT. PLN (PERSERO) J&P
UNIT PRODUKSI BANDUNG

SURAT PERNYATAAN

Yang bertanda tangan di bawah ini:

Nama : JECKY FERNANDES
Tempat/Tgl Lahir : P.BARU / 16 MEI 1980
Alamat Rumah : JL. KUBANG UTARA II NO. 9/153.
Alamat Sekolah : JL. DIPATIUKUR NO 112

Selaku Siswa Praktek Kerja di PT.PLN (Persero) UBJ&P Unit Produksi Bandung terhitung mulai Tgl, ..20 DESEMBER 2004....., dengan ini menyatakan kesediaan dan berjanji untuk mematuhi ketentuan-ketentuan sabagai berikut:

1. Menjalankan tugas praktek kerja yang diatur dan ditentukan oleh PT.PLN (Persero) dengan sebaik-baiknya.
2. Tidak akan menuntut upah atau pemberian dalam bentuk apapun sebagai imbalan jasa (tidak diberikan honorarium).
3. Apabila terjadi kecelakaan selama melaksanakan Kerja Praktek tidak akan menuntut pemberian jaminan maupun tunjangan kecelakaan.
4. Bersedia mengakhiri/menghentikan Praktek Kerja sewaktu-waktu dengan tanpa meminta ganti rugi apapun.
5. Sanggup mematuhi peraturan-peraturan yang berlaku di PT.PLN (Persero).
6. Wajib menyerahkan 1 (satu) Eksemplar Laporan Hasil Praktek Kerja.
7. Tidak dibenarkan bagi siswa PKL waktu istirahat ada di lokasi kerja.
8. Pembimbing PKL Sdr :...Ir. Suharto.....

Demikian Surat Pernyataan ini dibuat dengan sesungguhnya dan tanpa ada paksaan dari pihak manapun.

UNIVERSITAS KOMPUTER INDONESIA
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ABSENSI KERJA PRAKTEK

NIM : 10101256
NAMA : Jecky Fernandes

No.	Tanggal	Jam Masuk	Jam Keluar	Paraf Petugas	Keterangan
1.	20 - 12 - 04	08.00	11.30		
2.	21 - 12 - 04	08.00	15.00		
3.	22 - 12 - 04	11.00	15.00		
4.	23 - 12 - 04	10.00	15.00		
5.	24 - 12 - 04	08.00	11.30		
6.	27 - 12 - 04	08.00	11.30		
7.	28 - 12 - 04	08.00	15.00		
8.	29 - 12 - 04	11.00	15.00		
9.	30 - 12 - 04	10.00	15.00		
10.	31 - 12 - 04	08.00	11.30		
11.	3 - 1 - 05	08.00	11.30		
12.	4 - 1 - 05	08.00	15.00		
13.	5 - 1 - 05	11.00	15.00		
14.	6 - 1 - 05	10.00	15.00		
15.	7 - 1 - 05	08.00	11.30		
16.	10 - 1 - 05	08.00	14.30		
17.	11 - 1 - 05	08.00	15.00		
18.	12 - 1 - 05	11.00	15.00		
19.	13 - 1 - 05	10.00	15.00		
20.	14 - 1 - 05	08.00	11.30		
21.	17 - 1 - 05	08.00	14.30		
22.	18 - 1 - 05	08.00	15.00		
23.	19 - 1 - 05	11.00	15.00		
24.	20 - 1 - 05	10.00	15.00		
25.					
26.					
27.					
28.					
29.					
30.					