**765KV DC DA-DD TYPE**

d = 3.5;  
*#n = int(input('total number of strand in bundle='));*n = 1;  
*#s = float(input('space between any 2 strand='));*s = 45.7;  
*#nphase = int(input('total no of phases='));*nphase = 8;  
pi = cmath.pi;  
db = s / math.sin(pi/n);  
eradi = n\*d/db;  
eradi = math.pow(eradi, 1/n);  
eradi = eradi\*db/2;  
Im=[442.2,442.2,442.2,442.2,442.2,442.2,0,0]; *# Current array  
#Im=[100\*math.sqrt(3)]; # Current array*Pm=[0,120,240,0,120,240,0,0]; *# phase angle array*h111=[29,43.6,60.5,29,43.6,60.5,72.9,72.9];  
h222=[29,43.6,60.5,29,43.6,60.5,72.9,72.9];  
x\_cor=[12.5,11.1,10,-12.5,-11.1,-10,10.4,-10.4];  
min\_cle11=[18.2,32.8,49.6,18.2,32.8,49.6,61.5,61.5];  
*#V=[(-151.6+262.5j),(303.1+0j),(-151.6-262.5j)]; # in kV  
# code for fetching voltage and phase angle data automatically*a=0;  
*#Vm=[];  
#Pm=[];*I=[];  
span=386;  
*#span = float(input('span length='));*weight=0.35;

cond\_div=1;  
div=20;

*#def measurement(div):*X=[];  
Y=[];  
Z=[];

**LATERAL PROFILE:**

*#x\_start = float(input('starting x cordinate of measured point='));*x\_start = -32 ;  
*#x\_end = float(input('ending x cordinate of measured point='));*x\_end = 32;  
*#y\_start = float(input('starting y cordinate of measured point='));*y\_start = 1;  
*#y\_end = float(input('ending y cordinate of measured point='));*y\_end = 1;  
*#z\_start = float(input('starting z cordinate of measured point='));*z\_start = 193;  
*#z\_end = float (input('ending z cordinate of measured point='));*z\_end = 193;

Measurement height= 1m

2.3659380600675095e-06

2.615331259397546e-06

2.871999815034617e-06

3.114557113017182e-06

3.3085340630585213e-06

3.4114692812976573e-06

3.3920330550959032e-06

3.257624802682736e-06

3.066194708349936e-06

2.903616509821278e-06

2.8407725768028843e-06

2.9036165098212786e-06

3.066194708349935e-06

3.257624802682737e-06

3.392033055095902e-06

3.4114692812976585e-06

3.308534063058523e-06

3.114557113017184e-06

2.8719998150346166e-06

2.6153312593975454e-06

2.365938060067513e-06

Measurement height= 1.8m

2.436522332662573e-06

2.7049412975885006e-06

2.984797275819027e-06

3.253020956889455e-06

3.47002465750351e-06

3.5841112749719044e-06

3.5542795695581044e-06

3.386340474981232e-06

3.1500104108876907e-06

2.9505675877290976e-06

2.8738794089278966e-06

2.9505675877290976e-06

3.150010410887689e-06

3.386340474981236e-06

3.5542795695581044e-06

3.584111274971904e-06

3.4700246575035088e-06

3.253020956889456e-06

2.984797275819028e-06

2.7049412975885006e-06

2.436522332662572e-06

**LONGITUDINAL PROFILE:**

x\_start = 12.5 ;  
*#x\_end = float(input('ending x cordinate of measured point='));*x\_end = 12.5;  
*#y\_start = float(input('starting y cordinate of measured point='));*y\_start = 1;  
*#y\_end = float(input('ending y cordinate of measured point='));*y\_end = 1;  
*#z\_start = float(input('starting z cordinate of measured point='));*z\_start = 0;  
*#z\_end = float (input('ending z cordinate of measured point='));*z\_end = 386;

Measurement height= 1m

1.1173648554858528e-06

2.0363998126554043e-06

2.4627630373297262e-06

2.674150779321002e-06

2.832831624363708e-06

2.9765221307812327e-06

3.1078954544338966e-06

3.221159877567988e-06

3.3089506006376476e-06

3.364666487877774e-06

3.383776274810348e-06

3.364666487877776e-06

3.308950600637647e-06

3.2211598775679875e-06

3.107895454433897e-06

2.976522130781222e-06

2.8328316243637098e-06

2.67415077932105e-06

2.462763037329724e-06

2.0363998126553946e-06

1.117364855485846e-06

Measurement height= 1.8m

1.152238477156059e-06

2.1159117840114734e-06

2.553844490853268e-06

2.7731918959793813e-06

2.9419161854019945e-06

3.0970468529483494e-06

3.240155214226444e-06

3.364324731908299e-06

3.461034873161497e-06

3.5226190658121195e-06

3.5437786066017847e-06

3.522619065812123e-06

3.461034873161498e-06

3.3643247319083003e-06

3.2401552142264435e-06

3.0970468529483515e-06

2.9419161854019962e-06

2.7731918959793716e-06

2.5538444908532674e-06

2.1159117840114713e-06

1.1522384771560526e-06