

## LAMPIRAN


	PT PLN (PERSERO) TRANSMISI JAWA BAGIAN TENGAH Komplek PLN Cigereleng - Bandung	Doc. No.	
		Valid.	
DAFTAR SETELAN PROTEKSI GI 150 KV BANTUL			

### 1. Proteksi : Penghantar 150 kV BANTUL Arah WATES

Jenis relai	: DISTANCE RELAY			
Merek/Tipe relai	: SIFANG/CSC-101			
LOKASI	: BANTUL			
PROTEKSI	: WATES			
L1, L2	: 31.784	,	23.009	Km
L3, L4	: 53.484	,	34.7652	Km
Z1	: 0.137	,	0.3966	$\Omega$ /km
Z11	: 0.137	,	0.3966	$\Omega$ /km
Z12	: 0.137	,	0.3966	$\Omega$ /km
Z0	: 0.287	+j	1.19	$\Omega$ /km
CT	: 600	/	1	Ampere
PT	: 150	KV/	100	Volt
In	: 1	A		

FUNC TEST			
1	Imp. Oper. Zone	0	CW
2	Test Pos. Imp	0	CW
FUNC COMMON			
1	VT Line	1	CW
2	AR Init By 2p	1	CW
3	AR Init By 3p	0	CW
4	Relay Trip 3pole	0	CW
5	CB Close state	0	CW condition
6	I abrupt	0.15	A
7	T Relay Reset	1	s
8	U Primary	150	kV
9	U Secondary	100	V
10	CT Primary	0.6	kA
11	CT Secondary	1	A
FUNC VT FAIL			
1	Func_VT Fail	1	CW
2	Solid Earth	0	CW
3	I_VT Fail	0.1	A
4	3I02_VT Fail	1	A
5	Upe_VT Fail	8	V
6	Upp_VT Fail	16	V
7	Upe_VT Normal	40	V
FUNC CT FAIL			
1	Func_CT Fail	0	CW
2	3I0_CT Fail	1	A
FUNC BROKEN CONDUCTOR			

1	Func_Broken Conduct	1	CW
2	Broken Conduct Trip	0	CW
FUNC FAULT LOCATOR			
1	Kx	0.667	
2	Kr	0.365	
3	Km	0.239	
4	X_Line	12.606	$\Omega$
5	R_Line	4.354	$\Omega$
6	Line length	31.784	km
FUNC TELE DISTANCE			
1	Weak InFeed	0	CW
2	Blocking Mode	0	CW
3	PUR Mode	1	CW
4	POR Mode	0	CW
5	Func_Tele EF	0	CW
6	Tele_EF Inrush Block	0	CW
7	Tele_EF Init AR	0	CW
8	Parallel line Mode	0	CW
9	T_Tele Reversal	100	ms
10	3I0_Tele EF	0.2	A
11	T0_Tele EF	0.1	s
FUNC DISTANCE			
1	Func_Z1	1	CW
2	Func_Z2	1	CW
3	Func_Z3	1	CW
4	Func_Z4	0	CW

1/2	Daftar Evaluasi Setelan Rele Proteksi	Dibuat :	Diperiksa :	Disetujui :
Rev. 00	GI 150 KV XXXX	Tgl :	Tgl:	Tgl:
 RUANG LINGKUP SERTIFIKASI ISO 9001:2000 PENGEMBANGAN DAN PEMBINAAN INSTALASI PENYALURAN TENAGA LISTRIK SISTEM JAWA BALI DI PT PLN (PERSERO) TRANSMISI JAWA BAGIAN TENGAH				

	PT PLN (PERSERO) TRANSMISI JAWA BAGIAN TENGAH Komplek PLN Cigereleng - Bandung	Doc. No.	
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<b>DAFTAR SETELAN PROTEKSI GI 150 KV BANTUL</b>			

5	Reverse Z4	0	CW
6	Func Z5	0	CW
7	Reverse Z5	0	CW
8	Func Z1Ext	0	CW
9	Z1 PS Blocking	1	CW
10	Z2 PS Blocking	1	CW
11	Z3 PS Blocking	1	CW
12	Z4 PS Blocking	1	CW
13	Z5 PS Blocking	1	CW
14	Z1Ext PS Blocking	0	CW
15	Z2 Speedup	0	CW
16	Z3 Speedup	0	CW
17	Z23 Speedup Inrush Block	0	CW
18	Mho Characteristic	0	CW
19	Use PE LoadCutout	0	CW
20	Use PP LoadCutout	0	CW
21	Fast Distance	0	CW
22	I PSB	1.5	A
23	R1 PE	4.678	Ω
24	X1 PE	4.205	Ω
25	R2 PE	8.685	Ω
26	X2 PE	6.64	Ω
27	R3 PE	11.515	Ω
28	X3 PE	12.761	Ω
29	R4 PE	0.01	Ω
30	X4 PE	0.01	Ω
31	R5 PE	0.01	Ω
32	X5 PE	0.01	Ω
33	R1Ext PE	0.01	Ω
34	X1Ext PE	0.01	Ω
35	T1 PE	0	s
36	T2 PE	0.4	s
37	T3 PE	1.6	s
38	T4 PE	10	s
39	T5 PE	10	s

40	T1 Ext PE	10	s
41	R1 PP	4.678	Ω
42	X1 PP	4.205	Ω
43	R2 PP	8.685	Ω
44	X2 PP	6.64	Ω
45	R3 PP	11.515	Ω
46	X3 PP	12.761	Ω
47	R4 PP	0.01	Ω
48	X4 PP	0.01	Ω
49	R5 PP	0.01	Ω
50	X5 PP	0.01	Ω
51	R1Ext PP	0.01	Ω
52	X1Ext PP	0.01	Ω
53	T1 PP	0	s
54	T2 PP	0.4	s
55	T3 PP	1.6	s
56	T4 PP	10	s
57	T5 PP	10	s
58	T1 Ext PP	10	s
59	I SOTF Dist	1	A
60	3I0 Dist PE	0.1	A
61	3U0 Dist PE	1	V
62	AngleLoadCutout PE	41.87	Degree
63	R LoadCutout PE	28.87	Ω
64	AngleLoadCutout PP	41.87	Degree
65	R LoadCutout PP	28.87	Ω
66	Xs OHM	0.01	Ω
FUNC SOTF			
1	Func SOTF	1	CW
2	SOTF Inrush Block	1	CW
3	I SOTF	2	CW
4	T OC SOTF	0	CW
5	3I0 SOTF	2	CW
6	T EF SOTF	0	CW

2/2	Daftar Evaluasi Setelan Rele Proteksi	Dibuat :	Diperiksa :	Disetujui :
Rev. 00	GI 150 KV XXXX	Tgl.:	Tgl.:	Tgl.:
 <b>RUANG LINGKUP SERTIFIKASI ISO 9001:2000</b> <b>PENGEMBANGAN DAN PEMBINAAN INSTALASI PENYALURAN TENAGA LISTRIK</b> <b>SISTEM JAWA BALI DI PT PLN (PERSERO) TRANSMISI JAWA BAGIAN TENGAH</b>				