

LAMPIRAN

Data Beban Per Section

No.	Feeder	Lokasi Alamat	Peralatan	No. Tiang	Beban		
					(R)	(S)	(T)
1	Ksn03	GI Kebasen	ABSW I	S3-1	131	174	163.5
2		Ds.Trayeman	Recloser	T10-129	123.8	158.3	98.5
3		Ds.Slawi kulon	LBS	S3-163/11	204	206	223.5
4		Ds.Slawi wetan	ABSW	S3-159	6	29	1.5
5		Ds.Slawi wetan	LBS	S3-166			
6		Ds.Kagok	LBS	S3-162C	80	73	83.5
7		Ds.Kagok	ABSW	S3-162L/1	31.7	54	50.5
8		Ds.Curug	ABSW	S3-162L/37/1	15.9	25	23.5
9		Ds.Curug	LBS	S3-162L/41			
1	Ksn04	GI Kebasen	ABSW I	S3-1	141	214	173.5
2		Ds.Adiwarna	Recloser	S3-39	140	210	184.5
3		Ds.Adiwarna	ABSW	S3-76/22	114.1	128	114.5
4		Ds.Adiwarna	ABSW	S3-76/9A	2.1	7.9	1.5
5		Ds.Banjaran	LBS	S3-76/2	100.9	96.8	97.5
6		Ds.Banjaran	LBS	K-40/35	28.4	19.8	17.5
7		Ds.Pegirikan	LBS	S3-79K	42.4	42.8	39.5
8		Ds.Pegirikan	LBS	S3-79P			
10		Ds.Kalimati	LBS	S3-53/2	31	54.7	25.5
11		Ds.Pesarean	ABSW	S3-53/24/2	19.1	20.2	20.5
12		ds jenggawur	ABSW	T1-272/222A	1.4	1.4	1.5
13		Ds.Kajen	ABSW	S3-53/27	36.5	72.6	48.5
14		Ds.Talang	LBS	S3-53/53			
1	Ksn05	GI Kebasen	ABSW I	T5-1	223.4	113.9	127.5
2		Ds.Pepedan	Recloser	T5-43	225	215	243.5
3		Ds.Kaligayam	ABSW	T5-67	223	210	233.5
4		Ds.Kaladawa	ABSW	K19-127			
1	Ksn06	GI Kebasen	ABSW I	K-1	246	217	233.5
2		Ds.Kaliwadas	Recloser	K-23/3	248	238	243.5
3		Ds.Gumalar	ABSW	K-23/32B	10.6	29.3	25.5
5		Ds.Gumalar	ABSW	K-23/37	197	199	193.5
6		Ds.Gumalar	ABSW	K-23/44/3	30	16.2	17.5
7		Ds.Pedeslohor	LBS	K-23/76	170	160	163.5
		DS KUPU	LBS	T9-56/12			
1	Ksn07	GI Kebasen	ABSW I	T7-1	291	366	293.5
2		Ds.Langgen	Recloser	T7-43	261	351	303.5
3		Ds.Langgen	ABSW	T7-37/1A	38	14	53.5

4		Ds.Langgen	ABSW	T7-37/14A	34	7	
		Ds.Purbasana	LBS	T7-95			
5		Ds.Paketiban	LBS	T1-272/191ZE	111	157	130.
6		Ds.Bogares lor	ABSW	S3-162L/57/8	57.4	98.6	60.0
7		Ds.Bogare kidul	LBS	S3-162L/59	54.8	93	51.0
8		Ds.Dukuhjati kidul	ABSW	S3-162L/112	21.5	64.7	30.0
1	Ksn08	GI Kebasen	ABSW I	T8-1	237	116	240.
2		Ds.Langgen	Recloser	T8-44	236	114.3	230.
3		Ds.Purbasana	LBS	T8-96			
1	Ksn09	GI Kebasen	ABSW I	T9-1	188	188	210.
2		Ds.Kapandean	ABSW	T9-44/1	1.6	32.5	1.0
1	Ksn10	GI Kebasen	ABSW I	K-1	381.5	377.2	370.
2		Ds.Ujungrusi	Recloser	K-31	295.4	305.3	290.
3		Ds.Ujungrusi	LBS	K-40/3			
4		Ds.Ujungrusi	LBS	K-42	143	147	150.
5		Ds.Pagiyanten	ABSW	K-90	84	130	80.0
			LBS	K-97/3			
6		Ds.Gumayun	Recloser	K-147	366	353	350.
1	Ksn11	GI Kebasen	ABSW I	T1-1	247	224	171.0
2		Ds.Tegalwangi	ABSW	T1-32	15	6	9.0
1	Ksn13	GI Kebasen	ABSW I	T13-1	195.8	191.2	220.
2		Ds.Pesarean	Recloser	T10-53	220	190	190.
3		Ds.Pakembaran	ABSW	S3-163/14	176	178	200.
4		Ds.Kalisapu	ABSW	S3-163/21C	34	35	30.0
5		Ds.Kalisapu	ABSW	S3-163/21W/1	14.5	19	20.0
6		Ds.Kalisapu	LBS	S3-163/29	136.5	141.9	152.0
7		Ds.Kalisapu	ABSW	S3-163/36/1	5	5	30.0
		DS GUMAYUN	LBS	K-167/5			
8		Ds.Kalisapu	LBS	S3-163/41B	83	112	110.
9		Ds.Kalisapu	ABSW	S3-189/45	75.5	102.1	60.0
10		Ds.Kalisapu	ABSW	S3-189/28/2	0	1.9	0.0
11		Ds.Slawi kulon	LBS	S3-189/2	38.7	53.8	44.0
12		Ds.Slawi wetan	ABSW	S3-192	38.4	25.9	46.0
			LBS	S3-237			
13		Ds.Dukuhsalam	ABSW	S3-223/2	0.6	1	1.0
14		Ds.Dukuhsalam	ABSW	S3-163/42	35.8	19	30.0
1	Ksn16	GI Kebasen	ABSW I	T16-1	198	209	140.
2		Ds.Pesayangan	ABSW	S3-53/37A	198.2	209	140.
3		Ds.Kalimati	Recloser	S3-53/18	197	208	145.
4		Ds.Tembok luwung	ABSW	S3-109	117	127	110.

5		Ds.Procot	LBS	S3-123/1	48.6	57	37.
6		Ds.Dukuh sembung	ABSW	S3-162L/17/59	13.9	14.7	14.
7		Ds.Procot	ABSW	S3-126	20.1	38.1	36.
		Ds.Procot	ABSW	S3-153			
1	Ksn18	GI Kebasen	ABSW I	K18-1	168.3	125.4	130.
2		Ds.Kaligayam	Recloser	K19-81	200	173	19.
1	Ksn19	GI Kebasen	ABSW I	K19-1	118.9	141.9	124.
		Ds.Kaligayam	Recloser	K19-82	103	111	10.

Data Panjang Konduktor

KSN 03

NO TIANG	PANJANG (KMS)	JENIS KONDUKTOR	LUAS PENAMPANG
S3-1	6.78	A3C	240 mm ²
T10-129	0.5	A3C	240 mm ²
S3-163/11	0.66	A3C	240 mm ²
S3-159	0.36	A3C	240 mm ²
S3-162C	0.82	A3C	240 mm ²
S3-162L/1	2.16	A3C	240 mm ²
S3-162L/37/1	2.26	A3C	240 mm ²
S3-162L/41	1.2	A3C	240 mm ²

KSN 07

NO TIANG	PANJANG (KMS)	JENIS KONDUKTOR	LUAS PENAMPANG
T7-43	2.15	A3C	240 mm ²
T7-94	2.55	A3C	240 mm ²
T7-150	2.88	A3C	240 mm ²
T1-272/191ZE	1.68	A3C	240 mm ²

2. Report Simulasi E-TAP12.6.0

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BusinessObjects

Project: **ETAP** Page: 3
 Location: 12.6.0H Date: 02-27-2020
 Contract: SN:
 Engineer: Study Case: LF Revision: Base
 Filename: faiq bayu Config.: Normal

Bus Input Data

Bus ID	kV	Sub-sys	Initial Voltage		Load									
					Constant kVA		Constant Z		Constant I		Generic			
					MW	Mvar	MW	Mvar	MW	Mvar	MW	Mvar		
Bus1	20.000	1	100.0	0.0										
Bus 1	20.000	2	100.0	0.0										
Bus2	20.000	1	100.0	0.0										
Bus 2	20.000	2	100.0	0.0										
Bus3	20.000	1	100.0	0.0										
Bus 3	20.000	2	100.0	0.0										
Bus4 sec 01	20.000	2	100.0	0.0	0.699	0.433	0.175	0.108						
Bus4 section 1	20.000	1	100.0	0.0	0.895	0.555	0.224	0.139						
Bus5 section 02	20.000	2	100.0	0.0	0.738	0.457	0.184	0.114						
Bus 5 section 2	20.000	1	100.0	0.0	1.123	0.696	0.281	0.174						
Bus6 sec 03	20.000	2	100.0	0.0	0.185	0.115	0.046	0.029						
Bus6 section 3	20.000	1	100.0	0.0	0.133	0.083	0.033	0.021						
Bus7 sec 04	20.000	2	100.0	0.0	0.511	0.316	0.128	0.079						
Bus 7 sec 4	20.000	1	100.0	0.0	0.542	0.336	0.135	0.084						

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File View Help

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BusinessObjects

Project: **ETAP** Page: 4
 Location: 12.6.0H Date: 02-27-2020
 Contract: SN:
 Engineer: Study Case: LF Revision: Base
 Filename: faiq bayu Config.: Normal

Line/Cable Input Data

Ohms or Siemens/1000 ft per Conductor (Cable) or per Phase Subreport:Cable

Line/Cable ID	Library	Size	Length			#Phase	T (°C)	R	X	Y
			A/L (ft)	% Tol.						
sec1	15N/AL93	240	2224.1	0.0	1	75	0.039033	0.096256		
sec01	15N/AL93	240	7003.8	0.0	1	75	0.039033	0.096256		
sec02	15N/AL93	240	1840.4	0.0	1	75	0.039033	0.096256		
sec002	15N/AL93	240	5386.1	0.0	1	75	0.045998	0.030980		
sec03	15N/AL93	240	2185.4	0.0	1	75	0.039033	0.096256		
sec003	15N/AL93	240	9448.8	0.0	1	75	0.039033	0.096256		
sec04	15N/AL93	240	1181.1	0.0	1	75	0.039033	0.096256		
sec004	15N/AL93	240	2511.8	0.0	1	75	0.039033	0.096256		
sec05	15N/AL93	240	2490.3	0.0	1	75	0.039033	0.096256		
sec005	15N/AL93	240	3149.6	0.0	1	75	0.039033	0.096256		
sec06	15N/AL93	240	7084.6	0.0	1	75	0.039033	0.096256		
sec006	15N/AL93	240	328.1	0.0	1	75	0.039033	0.096256		
sec007	15N/AL93	240	12204.7	0.0	1	75	0.039033	0.096256		
sec07	15N/AL93	240	7414.7	0.0	1	75	0.039033	0.096256		
sec08	15N/AL93	240	3907.0	0.0	1	75	0.039033	0.096256		

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File View Help

12.6 GHz

Location: Contract: Date: 02-27-2020
 Engineer: Study Case: LF SN:
 Filename: faiq.bays Revision: Base
 Config: Normal

LOAD FLOW REPORT

Bus ID	Voltage			Generation		Load		Load Flow				XFMR %Tap
	kV	% Mag	Ang	MW	MVar	MW	MVar	ID	MW	MVar	Amp	
*Bus1	20000	100.000	0.0	4.974	3.288	0	0	Bus2	4.974	3.288	172.1	93.4
*Bus1	20000	100.000	0.0	4.370	2.808	0	0	Bus2	4.370	2.808	149.9	94.1
Bus2	20000	99.239	-0.4	0	0	0	0	Bus1	-4.972	-3.240	172.1	93.8
								Bus3	4.972	3.240	172.1	93.8
Bus2	20000	99.596	-0.3	0	0	0	0	Bus1	-4.368	-2.772	149.9	94.4
								Bus3	4.368	2.772	149.9	94.4
Bus3	20000	99.239	-0.4	0	0	0	0	Bus4 section1	4.972	3.240	172.1	93.8
								Bus2	-4.972	-3.240	172.1	93.8
Bus3	20000	99.596	-0.3	0	0	0	0	Bus4 sec01	4.368	2.772	149.9	94.4
								Bus2	-4.368	-2.772	149.9	94.4
Bus4 sec01	20000	98.824	-0.6	0	0	0.870	0.539	Bus3	-4.349	-2.728	149.9	94.7
								Bus4 section02	3.479	2.187	120.0	94.7
Bus4 section1	20000	96.722	-1.5	0	0	1.104	0.684	Bus3	-4.894	-3.050	172.1	94.9
								Bus4 section2	3.790	2.366	133.4	94.8
Bus4 section02	20000	98.342	-0.7	0	0	0.916	0.568	Bus4 sec01	-3.465	-2.176	120.0	94.7
								Bus4 sec03	2.546	1.608	88.4	94.6
Bus4 section2	20000	96.502	-1.6	0	0	1.384	0.858	Bus4 section1	-3.787	-2.357	133.4	94.9
								Bus4 section3	2.402	1.499	84.7	94.8
Bus4 sec03	20000	97.732	-0.9	0	0	0.229	0.142	Bus4 section02	-2.538	-1.587	88.4	94.8
								Bus7 sec04	2.309	1.445	80.4	94.8
Bus4 section3	20000	96.429	-1.7	0	0	0.164	0.102	Bus4 section2	-2.401	-1.495	84.7	94.9
								Bus7 sec4	2.236	1.393	78.9	94.9
Bus7 sec04	20000	97.409	-1.0	0	0	0.432	0.292	Bus4 sec03	-2.305	-1.435	80.4	94.9
								Bus4 sec02	1.673	1.043	58.4	94.9
Bus4 sec04	20000	98.661	-1.2	0	0	0.458	0.284	Bus4 section3	-2.244	-1.391	78.9	94.9

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