

	DATA TEKNIS PROYEK	Nomor :
		Halaman :
		Tanggal :
BIRO ENGINEERING		

NAMA PROYEK	:	PENGEMBANGAN BANDARA SULTAN HASANUDDIN MAKASSAR				
PEMILIK	:	ANGKASA PURA 1				
JENIS PROYEK	:	AIRPORT				
LOKASI	:	MAKASSAR				
PERIODE PELAKSANAAN	:					
NO	DESKRIPSI	TERMINAL UTAMA				KETERANGAN

4	ELEKTRIKAL				
	DATA DAYA UTAMA	KAPASITAS	SATUAN	KETERANGAN	
	Besaran Daya Total	:	3644,135	KVA	
	Listrik Total untuk Penerangan	:	285,854	KVA	
	Listrik Total untuk Stop Kontak	:	519,38	KVA	
	Listrik Total untuk Daya :	:			
	- AHU	:	1196,25	KVA	
	- Lift	:	206,25	KVA	
	- Escalator	:	82,5	KVA	
	- Moving Walk	:	18,75	KVA	
	- Total	:	2.308,984	KVA	

	DATA KEBUTUHAN DAYA						
	Lighting / Penerangan	MERK	TYPE	JUMLAH	JUMLAH DAYA	SATUAN	KETERANGAN
							Bila lebih dari 1 type rinci masing-masing type dan jumlahnya
	Type & Merk Lampu Toilet	:	Panasonic	DOWN LIGHT LED 1100LM, 6000 K, 40,60 DEGREE MAX 12 W	229	2748	W
		:	Panasonic	DOWN LIGHT LED MR16, 4000 K, 24-30 DEGREE, 7 W	329	2303	W
		:	Panasonic	DOWN LIGHT LED 2000LM, 6000 K, 40,60 DEGREE MAX 22 W	400	8800	W
		:	Prisled	LED,- , 3000 K, IP20, 14 W	1361	5988,4	W
	Type & Merk Lampu Terminal	:	Panasonic	LED Panel Recessed 300 x 1200 40W 3200lm 6500K	513	20520	W
		:	Panasonic	DOWN LIGHT LED COB, 45 DEG, 3500 K, IP20, 3 x 59 W	322	56994	W
		:	Panasonic	DOWN LIGHT LED COB, 45 DEG, 3500 K, IP 20, 59 W	70	4130	W
		:	Panasonic	Adj Glareless Down Light, 9.0W 490lm 3000K Ø75 24deg Dimmable	248	2232	W
		:	Prisled	TPL Series Linear Light,LED, 3000 K, IP20, 4 W	1361	1088,8	W
		:	Prisled	120 DEG, 5000 K, IP20, 24 W	57	1368	W
		:	Prisled	LED - Wall Light 3000 K, IP20, 10 W	128	1280	W
		:	Prisled	LED-4000K, IP60, 16.3 WATT	39	624	W
		:	Prisled	LED COB, 170 DEG x 170 DEG, 3000 K, IP20, 14 W	128	1792	W
		:	Prisled	LED COB, 60 DEG, 4000K, IP65, 60W	42	2520	W
		:	Prisled	LED COB 5 DEG, 3000 K, IP66, 30 W	40	1200	W

NO	DESKRIPSI		TERMINAL UTAMA						KETERANGAN
	Type & Merk Lampu R.Panel, R.AHU, & R.BHS	:	Panasonic	SURFACE MOUNTED LED 1 x 19 W, 1650LM, IP65	258	4902	W		
		:	Panasonic	Surface Mounted LED 2 x 19 W, 1650LM, IP65	822	31236	W		
	Type & Merk Lampu Koridor Lantai 1	:	Panasonic	Downlight E Series 19W 1900lm 4000K	2013	38247	W		
	Type & Merk Lampu Kolom	:	Prisled	Rubber Neon Flex LED 9 W	6000	10800	W		
	Type & Merk Lampu Exit	:	Panasonic	LED Exit Light Hanging 3W, 3Hr	88	264	W		
	Equipment Utama								
	Type & Merk Trafo	:	Bambang Djaya	Dry Type DYN5	2	3150	KVA		
	Type & Merk Panel Tegangan Rendah	:	LS (Powerwell)	Form 3B untuk LVMDP	1				
	Type & Merk Panel Tegangan Menengah	:	LS	Metal Enclosed/Air Insulated Switchgear	2				
	Type & Merk Kabel	:	Kabel Metal	NYY, NYM, NYFGbY,NYA, N2SXY,N2SEFGbY					
	Type & Merk BUS Duct	:	LS	I Series, Tembaga, Isolasi Epoxy, IP54					
	Type & Merk Amature (Stop kontak /dll)	UNIT Total	Boss						
		Tipe 1	Boss	Stop Kontak 200 watt	2077	415,4	KW		
	Type & Merk CB		LS						

5	SOUND SYSTEM, TELEPON, FA, CCTV, BAS						KETERANGAN
	Equipment Utama		MERK	TYPE	JUMLAH	SATUAN	Bila lebih dari 1 type rinci masing-masing type dan jumlahnya
	PUBLIC ADDRESS SYSTEM						
	Power Amplifier	Tipe 1	BOSCH	PRS-1P500	3	UNIT	
		Tipe 2	BOSCH	PRS-2P250	5	UNIT	
		Tipe 3	BOSCH	PRS-4P125	3	UNIT	
		Tipe 4	BOSCH	LBB4428/00	1	UNIT	
	Speaker	Ceiling	BOSCH	LBC-3087/41	906	TITIK	
		Wall Speaker	BOSCH	LBC-3011/41	75	TITIK	
		Box	BOSCH	LB2-UC15-D1	79	TITIK	
	Rack Power Amplifier		ABBA Rack	NC30-10900-GG/GB	1	UNIT	
				NC20-10900-GG/GB	1	UNIT	
	IP PHONE		UNIFY	Openstage Desk Phone CP200	158	Unit	
	KABEL		Kabel Metal				
	Jaringan Data						
	Switch	Access Switch	CISCO	Catalyst C9300-24P	22	Unit	
		Distribution Switch	CISCO	Catalyst C9500-40X	2	Unit	
	Rack Server		GSPE	Close Rack 42U	8	Unit	
			GSPE	Wallmount Rack 15U	16	Unit	
	Kabel		Commscope	F/UTP Cat 6a			
			Belden	FO			

NO	DESKRIPSI		TERMINAL UTAMA						KETERANGAN	
8	ELEVATOR & ESCALATOR									
			MERK	TYPE	JUMLAH	KAPASITAS (KG)	KAPASITAS (PERSON)	KECEPATAN (MPM)	DAYA (KW)	KETERANGAN Bila lebih dari 1 type rinci masing-masing type dan jumlahnya
	Passanger Elevator	:	Thyssenkrupp	Machine Roomless	4	-	14	60	15	
	Service Elevator	:	Thyssenkrupp	Machine Roomless	5	2000	-	60	21	
	Escalator	:	Thyssenkrupp	Velino	6	-	9000/hr	50	11	
	Kemiringan Escalator	30 °	-		-	-	-	-	-	
	Ketinggian Escalator	4900 mm	-		-	-	-	-	-	
	Moving Walk	:	Thyssenkrupp	orinoco	2		-	50	7,5	
	Kemiringan Moving Walk	0 °	-	-	-	-	-	-	-	
	Panjang Moving Walk	45 m	-	-	-	-	-	-	-	
9	BAGGAGE HANDLING SYSTEM									
	BHS	:	MERK	TYPE	JUMLAH	KAPASITAS (KVA)	Keterangan			
			Dimark			800				
		Level Of Security		5						
		Kapasitas	:		6000 bag/jam					
		Check In			96 Counter					
		Spiral Chute			1					
		Lift OOG			1					
		Make Up			24 Chute					
					2 Carousel					
		Baggage Claim								
		International		tipe L	1					
				Tipe T	1					
				Tipe I	1					
		Domestik		tipe L	6					
				Tipe T	2					
				Tipe I	1					
		CCTV	Bosch	Flexidome	38					
		Baggage Information Display System	Inalix							
		Monitor	LG	43SM5SKE	22					

Bila lebih dari 1 type rinci masing-masing type dan jumlahnya

	BIRO ENGINEERING	DATA TEKNIS PROYEK	Nomor :
			Halaman :
			Tanggal :

NAMA PROYEK	:	PENGEMBANGAN BANDARA SULTAN HASANUDDIN MAKASSAR				
PEMILIK	:	ANGKASA PURA 1				
JENIS PROYEK	:	AIRPORT				
LOKASI	:	MAKASSAR				
PERIODE PELAKSANAAN	:					
NO	DESKRIPSI	TERMINAL SELATAN				KETERANGAN

4	ELEKTRIKAL				
	DATA DAYA UTAMA		KAPASITAS	SATUAN	KETERANGAN
	Besaran Daya Total	:	1639,515	KVA	
	Listrik Total untuk Penerangan	:	84,000	KVA	
	Listrik Total untuk Stop Kontak	:	156	KVA	
	Listrik Total untuk Daya :	:			
	- AHU	:	262,75	KVA	
	- Lift	:	90	KVA	
	- Escalator	:	55	KVA	
	- Moving Walk	:	50	KVA	
	- Total	:	697,750	KVA	

DATA KEBUTUHAN DAYA								
Lighting / Penerangan			MERK	TYPE	JUMLAH	JUMLAH DAYA	SATUAN	KETERANGAN
								Bila lebih dari 1 type rinci masing-masing type dan jumlahnya
Type & Merk Lampu Toilet	:	Panasonic	DOWN LIGHT LED 1100LM, 6000 K, 40,60 DEGREE MAX 12 W	84	1008	W		
		Panasonic	DOWN LIGHT LED MR16, 4000 K, 24-30 DEGREE, 7 W	194	1358	W		
		Panasonic	DOWN LIGHT LED 2000LM, 6000 K, 40,60 DEGREE MAX 22 W	43	946	W		
		Prisled	LED,- , 3000 K, IP20, 14 W	298	1311,2	W		
Type & Merk Lampu Terminal	:	Panasonic	LED Panel Recessed 300 x 1200 40W 3200lm 6500K	176	7040	W		
		Panasonic	DOWN LIGHT LED COB, 45 DEG, 3500 K, IP 20, 59 W	16	944	W		
		Panasonic	DOWN LIGHT LED COB, 35 DEG,3500 K, IP66, 15 W	339	5085	W		
		Prisled	120 DEG, 5000 K, IP20, 24 W	538	12912	W		
Type & Merk Lampu R.Panel, R.AHU, & R.BHS	:	Panasonic	SURFACE MOUNTED LED 1 x 19 W, 1650LM, IP65	18	342	W		
		Panasonic	Surface Mounted LED 2 x 19 W, 1650LM, IP65	446	16948	W		
Type & Merk Lampu Koridor Lantai 1	:	Panasonic	Downlight E Series 19W 1900lm 4000K	387	7353	W		
Type & Merk Lampu Exit	:	Panasonic	LED Exit Light Hanging 3W, 3Hr	7	21	W		

NO	DESKRIPSI		TERMINAL SELATAN						KETERANGAN
	Equipment Utama								
	Type & Merk Trafo		:	Bambang Djaya	Dry Type DYN5	2	1600	KVA	
	Type & Merk Panel Tegangan Rendah		:	LS (Powerwell)	Form 3B untuk LVMDP	1			
	Type & Merk Panel Tegangan Menengah		:	LS	Metal Enclosed/Air Insulated Switchgear	2			
	Type & Merk Kabel		:	Kabel Metal	NYY, NYM, NYFGbY, NYA, N2SXY, N2SEFGbY				
	Type & Merk BUS Duct		:	LS	I Series, Tembaga, Isolasi Epoxy, IP54				
	Type & Merk Amature (Stop kontak /dll)	UNIT Total		Boss					
		Tipe 1		Boss	Stop Kontak 200 watt	624	124,8	KW	
	Type & Merk CB		:	LS					

5 SOUND SYSTEM, TELEPON, FA, CCTV, BAS							KETERANGAN
Equipment Utama			MERK	TYPE	JUMLAH	SATUAN	Bila lebih dari 1 type rinci masing-masing type dan jumlahnya
PUBLIC ADRESS SYSTEM							
Power Amplifier	Tipe 1		BOSCH	PRS-2P250	2	UNIT	
	Tipe 2		BOSCH	PRS-4P125	1	UNIT	
Speaker	Ceiling		BOSCH	LBC-3087/41	130	TITIK	
	Wall Speaker		BOSCH	LBC-3011/41	8	TITIK	
	Horn Speaker		BOSCH	LBC-3473/00	8	TITIK	
	Box	:	BOSCH	LB2-UC15-D1	30	TITIK	
Rack Power Amplifier		:	ABBA Rack	AR-W15-600-DB	1	UNIT	
IP PHONE			UNIFY	Openstage Desk Phone CP200	32	Unit	
KABEL			Kabel Metal				
Jaringan Data							
Switch	Access Switch		CISCO	Catalyst C9300-24P	12	Unit	
	Distribution Switch	:	-	-	-	Unit	
Rack Server			GSPE	Close Rack 42U	1	Unit	
		:	GSPE	Wallmount Rack 15U	5	Unit	
Kabel			Commscope	F/UTP Cat 6a			
		:	Belden	FO			

NO	DESKRIPSI		TERMINAL SELATAN					KETERANGAN	
FIRE ALARM									
	Smoke/Heat Detector	UNIT Total							
		Unit Tipe 1	:	Notifier	Photoelectric Smoke Detector Addressable	110	TITIK		
		Unit Tipe 2		Notifier	Photoelectric Smoke Detector Non Addressable	111	TITIK		
		Unit Tipe 3		Notifier	Beam Detektor Non Addressable	18	TITIK		
	Type & Merk Bell		:	Notifier		18	UNIT		
	Panel Utama Alarm		:	Notifier		1	UNIT		
	Kabel	Tipe 1 Detektor Non Addressable		Kabel Metal	NYA				
		Tipe 2 Detektor Addressable	:	Datwyler	STP AWG 18				
		Tipe 3 Kabel Power		Nexans	FRC				
		Tipe 4 Kabel Data	:	Betaflam	FRC AWG 18				
CCTV									
	CCTV	Dome Camera		Sony	SNC-XM631	39	TITIK		
		PTZ Camera	:	Sony	SNC-WR630	21	TITIK		
	KABEL			Commscope	F/UTP Cat 6a				
FIDS									
	FIDS	FIDS Server		Inalix Dell	R440	1	Unit		
		Monitor							
		43		LG	SM5KE	12	Unit		
		55		LG	SM5KE	10	Unit		
		65	:	LG	SM5KE	7	Unit		
	KABEL			Commscope	F/UTP Cat 6a				
Building Automatic System									
	BAS			Honeywell		670	POINT		

NO	DESKRIPSI			TERMINAL SELATAN						KETERANGAN		
6	PLUMBING											
	EQUIPMENT UTAMA				MERK	TYPE	JUMLAH	KAPASITAS	SATUAN	DAYA	SATUAN	KETERANGAN
	FIRE FIGHTING	AB	:	ATP Toro	PPR PN10							
		AK	:	Vinilon	UPVC type AW							
		ABK	:	Vinilon	UPVC tipe AW							
		AH	:	Fast Flow	UPVC							
		RISER AB	:	ATP Toro	PPR PN 10							
	VALVE	R. POMPA AB		Kitz	JIS 10K							
		PRV										Tidak ada PRV
	PRV											Tidak ada PRV
6	FIRE FIGHTING											
	EQUIPMENT UTAMA				MERK	TYPE	JUMLAH	KAPASITAS (GPM)	DAYA (KW)			KETERANGAN
	Springkler			:	Tyco	Pendant (68°C)	494					
						Upright (68°C)	732					
	BOX HIDRANT				Citi Fire	Indoor Hydrant Box	18					
	PIPA	FF RISER		SPINDO	Black Steel Sch 40 ASTM A53 Grade A							
		FF SETELAH PRV		SPINDO	Black Steel Sch 40 ASTM A53 Grade A							
	VALVE	R. POMPA		Kitz	Gate Valve 20K							
		INSTALASI		Kitz	Gate Valve 16K							
	Automatic Air Release Valve				Yoshitake	Cast Iron Automatic Air Vent	2		Unit			
	BCV				Vitaulic	Series 751 Firelock	2		Unit			
	PRV				Socla	CL101	2		Unit			
					MERK	TYPE	JUMLAH					
	Fire Extingusher				Citifire	3,8kg Dry Chemical	47					
					Citifire	5kg Cleant Agent	9					
			:		Citifire	25kg Clean Agent	2					

NO	DESKRIPSI	TERMINAL SELATAN				KETERANGAN
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7	VENTILATION & AIR CONDITION		MERK	TYPE	JUMLAH	KAPASITAS	SATUAN	DAYA	SATUAN	KETERANGAN
	AHU/ FCU	:	Daikin		74	1099	TR	262,75	KW	
	Exshhaust Fan	Toilet Type 1.1	: System Air	Cabinet In Line	1	1850	CFM	0,483	KW	
		Toilet Type 1.2	: System Air	Cabinet In Line	1	1850	CFM	0,483	KW	
		Toilet Type 1.3	System Air	Cabinet In Line	1	1850	CFM	0,483	KW	
		Toilet Type 1.4	System Air	Cabinet In Line	1	1850	CFM	0,483	KW	
		Toilet Type 1.5	System Air	Cabinet In Line	1	1750	CFM	0,483	KW	
		Toilet Type 1.6	System Air	Cabinet In Line	1	1550	CFM	0,483	KW	
		Toilet Type 1.7	System Air	Cabinet In Line	1	1750	CFM	0,483	KW	
		Toilet Type 1.8	System Air	Cabinet In Line	1	900	CFM	0,483	KW	
		Toilet Type 1.9	System Air	Cabinet In Line	1	1200	CFM	0,483	KW	
		Toilet Type 2.1	System Air	Cabinet In Line	1	1850	CFM	0,483	KW	
		Toilet Type 2.2	System Air	Cabinet In Line	1	1850	CFM	0,483	KW	
		Toilet Type 2.3	System Air	Cabinet In Line	1	1850	CFM	0,483	KW	
		Toilet Type 2.4	System Air	Cabinet In Line	1	1850	CFM	0,483	KW	
		Toilet Type 2.5	System Air	Cabinet In Line	1	1750	CFM	0,483	KW	
		Toilet Type 2.6	System Air	Cabinet In Line	1	1750	CFM	0,483	KW	
	PIPA	CHWS	SPINDO	sampai dengan dia. 200 mm Blacksteel Sch 40 ASTM A53 Grade A						
				dia. 250 keatas Pipa Standar SNI 0039 : 2013 tebal heavy						
		CHWR	SPINDO	sampai dengan dia. 200 mm Blacksteel Sch 40 ASTM A53 Grade A						
				dia. 250 keatas Pipa Standar SNI 0039 : 2013 tebal heavy						

8	ELEVATOR & ESCALATOR		MERK	TYPE	JUMLAH	KAPASITAS (KG)	KAPASITAS (PERSON)	KECEPATAN (MPM)	DAYA (KW)	KETERANGAN
	Passanger Elevator	:	Thyssenkrupp	Machine Roomless	2	-	14	60	15	Bila lebih dari 1 type rinci masing-masing
	Service Elevator	:	Thyssenkrupp	Machine Roomless	2	2000	-	60	21	
	Escalator	:	Thyssenkrupp	Velino	4	-	9000/hr	50	11	
	Kemiringan Escalator	30 °	-	-	-	-	-	-	-	
	Ketinggian Escalator	5000 mm	-	-	-	-	-	-	-	
	Moving Walk	:	Thyssenkrupp	orinoco	4	-	-	50	7,5	
	Kemiringan Moving Walk	0 °	-	-	-	-	-	-	-	
	Panjang Moving Walk	45 m	-	-	-	-	-	-	-	
	Moving Walk	:	Thyssenkrupp	orinoco	1	-	-	50	7,5	
	Kemiringan Moving Walk	0 °	-	-	-	-	-	-	-	
	Panjang Moving Walk	20 m	-	-	-	-	-	-	-	

	DATA TEKNIS PROYEK		Nomor :
			Halaman :
	BIRO ENGINEERING		Tanggal :

NAMA PROYEK	:	PENGEMBANGAN BANDARA SULTAN HASANUDDIN MAKASSAR			
PEMILIK	:	ANGKASA PURA 1			
JENIS PROYEK	:	AIRPORT			
LOKASI	:	MAKASSAR			
PERIODE PELAKSANAAN	:				

NO	DESKRIPSI	GEDUNG PARKIR				KETERANGAN
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4	ELEKTRIKAL				
	DATA DAYA UTAMA		KAPASITAS	SATUAN	KETERANGAN
	Besaran Daya Total	:	1206	KVA	
	Listrik Total untuk Penerangan	:	37,650	KVA	
	Listrik Total untuk Stop Kontak	:	18,6	KVA	
	Listrik Total untuk Daya :	:			
	- AC	:	36,36	KVA	
	- Lift	:	46	KVA	
	- Total	:	138,610	KVA	

DATA KEBUTUHAN DAYA									
Lighting / Penerangan				MERK	TYPE	JUMLAH	JUMLAH DAYA	SATUAN	KETERANGAN
									Bila lebih dari 1 type rinci masing-masing type dan jumlahnya
	Type & Merk Lampu Toilet		:	Panasonic	DOWN LIGHT LED 1100LM, 6000 K, 40,60 DEGREE MAX 12 W	84	1008	W	
	Type & Merk Lampu Drive Way		:	Panasonic	TL BATTEN LED 2 x 19 W, 4000 K	611	23218	W	
	Type & Merk Lampu Parking			Panasonic	TL BATTEN LED 1 x 19 W, 4000 K	634	12046	W	
	Type Lampu Garden			Prisled	WALL LAMP LED 15 W	38	570	W	
				Prisled	BOLLARD LED 41 W	15	615	W	
	Type & Merk Lampu R.Panel, R.AHU, & R.BHS		:	Panasonic	SURFACE MOUNTED LED 1 x 19 W, 1650LM, IP65	8	152	W	
	Type & Merk Lampu Exit		:	Panasonic	LED Exit Light Hanging 3W, 3Hr	12	36	W	

NO	DESKRIPSI		GEDUNG PARKIR					KETERANGAN
	Equipment Utama							
	Type & Merk Trafo	:	Bambang Djaya	Dry Type DYN5	2	1250	KVA	
	Type & Merk Panel Tegangan Rendah	:	LS (Powerwell)	Form 3B untuk LVMDP	1			
	Type & Merk Panel Tegangan Menengah	:	LS	Metal Enclosed/Air Insulated Switchgear	2			
	Type & Merk Kabel	:	Kabel Metal	NYY, NYM, NYFGbY,NYA, N2SXY,N2SEFGbY				
	Type & Merk BUS Duct	:	LS	I Series, Tembaga, Isolasi Epoxy, IP54				
	Type & Merk Amature (Stop kontak /dll)	UNIT Total	Boss					
		Tipe 1	Boss	Stop Kontak 200 watt	93	18,6	KW	
	Type & Merk CB		LS					

5	SOUND SYSTEM, TELEPON, FA, CCTV, BAS					KETERANGAN	
	Equipment Utama		MERK	TYPE	JUMLAH	SATUAN	Bila lebih dari 1 type rinci masing-masing type dan jumlahnya
	PUBLIC ADDRESS SYSTEM						
	Power Amplifier	Tipe 1	BOSCH	PRS-1P500	1	UNIT	
		Ceiling	BOSCH	LBC-3087/41	21	TITIK	
	Speaker	Wall Speaker	BOSCH	LBC-3011/41	14	TITIK	
		Horn Speaker	BOSCH	LBC-3473/00	76	TITIK	
	Rack Power Amplifier	:	ABBA Rack	AR-W15-600-DB	1	UNIT	
	IP PHONE		UNIFY	Openstage Desk Phone CP200	18	Unit	
	KABEL		Kabel Metal				
	Jaringan Data						
	Switch	Access Switch	CISCO	Catalyst C9300-24P	8	Unit	
		Distribution Switch	-	-	-	Unit	
	Rack Server		GSPE	Close Rack 42U	1	Unit	
			GSPE	Wallmount Rack 15U	7	Unit	
	Kabel		Commscope	F/UTP Cat 6a			
			Belden	FO			

NO	DESKRIPSI		GEDUNG PARKIR					KETERANGAN
	FIRE ALARM							
	Smoke/Heat Detector	UNIT Total						
		Unit Tipe 1	:	Notifier	Photoelectric Smoke Detector Addressable	80	TITIK	
		Unit Tipe 2		Notifier	Photoelectric Smoke Detector Non Addressable	17	TITIK	
		Unit Tipe 3		Notifier	Rate of Rise Temperatur Detector	438	TITIK	
	Type & Merk Bell		:	Notifier		14	UNIT	
	Panel Utama Alarm		:	Notifier		1	UNIT	
	Kabel	Tipe 1 Detektor Non Addressable		Kabel Metal	NYA			
		Tipe 2 Detektor Addressable	:	Datwyler	STP AWG 18			
		Tipe 3 Kabel Power		Nexans	FRC			
		Tipe 4 Kabel Data	:	Betaflam	FRC AWG 18			
	CCTV							
	CCTV	Bullet Camera		Sony	SNC-EB630	32	TITIK	
		Dome Camera		Sony	SNC-XM631	3		
		PTZ Camera	:	Sony	SNC-WR630	1	TITIK	
	KABEL			Commscope	F/UTP Cat 6a			
	FIDS							
	FIDS	FIDS Monitor		Inalix				
		65	:	LG	SM5KE	2	Unit	
	KABEL			Commscope	F/UTP Cat 6a			
		Building Automatic System						
	BAS			Honeywell		146	POINT	

NO	DESKRIPSI			GEDUNG PARKIR						KETERANGAN		
6	PLUMBING											
	EQUIPMENT UTAMA				MERK	TYPE	JUMLAH	KAPASITAS	SATUAN	DAYA	SATUAN	KETERANGAN
	PIPA	AB	:	ATP Toro	PPR PN10							
		AK	:	Vinilon	UPVC type AW							
		ABK	:	Vinilon	UPVC tipe AW							
		AH	:	Fast Flow	UPVC							
		RISER AB	:	ATP Toro	PPR PN 10							
	VALVE	R. POMPA AB		Kitz	JIS 10K							
		PRV										Tidak ada PRV
PRV											Tidak ada PRV	
6	FIRE FIGHTING											
	EQUIPMENT UTAMA				MERK	TYPE	JUMLAH	KAPASITAS (GPM)	DAYA (KW)			KETERANGAN
	Springkler		:	Tyco	Pendant (68°C)	-						
					Upright (68°C)	2.163						
	BOX HIDRANT				Citi Fire	Indoor Hydrant Box	14					
	PIPA	FF RISER		SPINDO	Black Steel Sch 40 ASTM A53 Grade A							
		FF SETELAH PRV		SPINDO	Black Steel Sch 40 ASTM A53 Grade A							
	VALVE	R. POMPA		Kitz	Gate Valve 20K							
		INSTALASI		Kitz	Gate Valve 16K							
	Automatic Air Release Valve			Yoshitake	Cast Iron Automatic Air Vent	6			Unit			
	BCV			Vitaulic	Series 751 Firelock	13			Unit			
	PRV			Socla	CL101	2			Unit			
					MERK	TYPE	JUMLAH					

NO	DESKRIPSI			GEDUNG PARKIR								KETERANGAN
	Fire Extingusher			Citifire	3,8kg Dry Chemical	145						
				Citifire	5kg Cleant Agent	8						
			:	Citifire	25kg Clean Agent	3						

7	VENTILATION & AIR CONDITION			MERK	TYPE	JUMLAH	KAPASITAS	SATUAN	DAYA	SATUAN	KETERANGAN
	AC	Type 1	:	Daikin	Split Duct	2	100.000,00	Btuh	11,4	KW	
		Type 2		Daikin	Wall mounted	8	18.000	Btuh	1,5	KW	
		Type 3		Daikin	Wall mounted	2	9.000	Btuh	0,78	KW	
	Exshaust Fan	Toilet Type SB.1	:	System Air	Cabinet In Line	1	1000	CFM	0,483	KW	
		Toilet Type 1.1	:	System Air	Cabinet In Line	1	1000	CFM	0,483	KW	
		Toilet Type 2.1		System Air	Cabinet In Line	1	1000	CFM	0,483	KW	
		Toilet Type 3.1		System Air	Cabinet In Line	1	1000	CFM	0,483	KW	
8	ELEVATOR & ESCALATOR			MERK	TYPE	JUMLAH	KAPASITAS (KG)	KAPASITAS (PERSON)	KECEPATAN (MPM)	DAYA (KW)	KETERANGAN
	Passanger Elevator			Thyssenkrupp	Machine Roomless	2	-	14	60	15	Bila lebih dari 1 type rinci masing-masing
	Service Elevator			Thyssenkrupp	Machine Roomless	2	2000	-	60	21	