

## PALM COURT APARTMENT

No.	DESCRIPTION	SPECIFICATION	BRAND	REMARKS
<b>A.</b>	<b>ELECTRICAL WORK</b>			
1	Medium Voltage Panel	16KA, Meter Enclosed, GCB SF6	Schneider, Eaton, ABB	Non Type Tested
2	Transformer	Oil Type, 2500 KVA, Non Type Tested	Bambang Djaya, Trafindo	
3	Low Voltage Panel	Form 2		Non Type Tested
	• Component	MCCB, MCB	Schneider, Eaton	
	• Contactor, Relay, Meter		Schneider, Eaton	
	• Capasitor Bank	900 KVAR Each LVMDB	Nokian, Schneider, Mikro	
	• DB Unit Enclosure Box		Hager Or Equivalent	
	Panel Maker		BCP, Comeca, Mitraida	
	Form	Form 2		
4	Cable Distribution	NYY, NYA, NYM	KMI, Voksel, Prysmian, Sumiindo, Supreme	
5	Pre Branch Cable	AL/PVC/PVC With Jointing	ISE Or Equivalent	
6	Cable FRC	3Hrs Rating Cat, CWZ	Draka, Pyrotec	
7	Busduct	AL, IP54, 4000A, 3200A, 2500A, 2000A	Schneider, Furutec	
8	Cabel Ladder	HDG, 2mm Thickness	Lanric, Threestar	
9	PVC High Impact Conduit	JIS Standar	Clipsal, Elpro, Boss	
10	Switch And Socket Outlet	220V, 2P+E	Boss Or Equivalent	
11	Armature Fixtures			
	Down Light, Batten	LED Lighting	GE, Osram Or Equivalent	
	Strip Light	LED Lighting	GE, TDE Or Equivalent	
	Obstruction Light	LED Lighting	Philips Or Equivalent	
12	Lightning Protection System	AL Type, Air Terminal By Conventional System	Raycheem, Furse Or Equivalent	
13	Fire Stop	2 Hrs Rating, Mortar	Promat, Hilti Or Equivalent	
14	KWH Meter	Digital Modbus	Schneider, PNC Tech Or Equivalent	
15	Steel Conduit	JIS Standar	Lanric, Panasonic, Elpro	
<b>B.</b>	<b>ELECTRONIC WORK</b>			
1	Sound System	Power Amp. 500W,300W,150W	Toa, Bosch	
2	Fire Alarm	Analog Addressable Fire Alarm Control Panel 10 Lop Max. 1590 Address Detector, Full Addressable For Hoter	Simplex, Notifier	
3	CCTV	Dome And Fixed Camera VF-2.7-13.5mm IR H.256	IDIS Or Equivalent	
4	Access Control	Network Controller, 2 Readers	Entry Pass Or Equivalent	
5	Emergency Door System	Hybrid 8 Input Output	Entry Pass Or Equivalent	
6	Audio Video System	IP Master & Entrance Station	Urment Or Equivalent	Only For 3BR, 4BR
7	GPON System	Double Line Redundancy System		By Other
8	BAS System	Monitorig System	Azbil, Johnson Control, Schneider	
9	Automatic Control For ACMV		Azbil, Johnson Control, Schneider	
10	Data/Telephone Outlet	Wall Type RG45	Boss Or Equivalent	
11	NYHYH/NYMHY/NYA/NYY/ITC Cable		KMI, Voksel, Supreme, Kabelindo, Jembo, Sumiindo, JJ-LAPP	
12	FRC Cable	3 hrs Rating Cat. CWZ, Mica Tape	Draca, Pryrotec, JJ-LAPP	
13	FRC Twisted Shielded	3 hrs Rating Cat. CWZ, Mica Tape	Draca, Pryrotec, JJ-LAPP	
14	Coaxial Cable		Belden, LS	
15	Fiber Optic Cable	Single Mode Multi Core G-652	Belden, LS	
16	UPT CAT		Belden, LS	
17	PVC High Impact Conduit	JIS Standar	Boss Or Equivalent	
18	Steel Conduit	JIS Standar	Clipsal, Elpro, Panasonic	
<b>C.</b>	<b>AIR CONDITOINING WORKS</b>			
1	Air Cooled Chiller	350 RT x 4 Nos	Mitsubishi "Climaventa" Daikin	Supply By Owner
2	Chiller Enclosure			N/A
3	Chilled Water Pump	Vertical Inline	Regent, Aurora, Teral	
4	AHU/FCU	Motor Efficiency IE1	Daikin Or Equivalent	
5	AC VRV & Split			Supply By Owner
6	Chilled Water Pipe	Black Steel Pipe ASTM A53 Sch40 Gr.A	Spindo Or Equivalent	
7	Chilled Water Pipe	PPR Pipe	Dizayn Or Equivalent	
8	Motorized Valve & Balancing Valve		Frese Or Equivalent	
9	Two Way Valve		Honeywell, Danfoss, Flowcon	
10	Gate, Check Valve, Strainer	Working Pressure 10kg/cm2	Showa, Kitz, Fivalco	
11	Butterfly Valve	Working Pressure 10kg/cm2	Showa, Kitz, Fivalco	
12	Motorized Valve		Siemens Or Equivalent	

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13	Thermometer		Sika Or Equivalent	
14	Automatic Air Vent		Hattersley Or Equivalent	
15	Pressure Diferential Valve		Nagano, PVG, Honeywell	
16	Ventilation Fan	Fan Motor Efficiency IE1	Systemair, Nicotra	
17	Diffuser/Grille	Standard Finish	Comfort Air, Carture, Umaster	
18	Galvanized Metal Sheet		Lockfom, Sarana	
19	Refrigerant Pipes	ASTM B280	Mueller, Carane Enfill, Inoac	
20	Drain Pipe	PVC Class D	Pralon, Supramas	
21	Ducting GI Sheet		Lockfom, Sarana	
22	Alluminium Sheet Duct	PIR Duct	AB Duct, TDI	
23	Pressure Sensor		Honeywell Or Equivalent	
24	Insulation Material For Duct	Polyolefin Type, Thickness = 20mm	Versa Foam, Trocellen	
25	Chilled Water Pipe Insulation	Nitrille Rubber Class 1, Thickness:	Insulflex, Armaflex	
		< 50mm = 25mm		
		< 200mm = 40mm		
		> 200mm = 40mm		
31	Reffigerant Pipe Insulation Material	Nitrille Rubber Class 1, Thickness: 20mm		
32	Fire Rated Insulation		Flame Or Equivalent	
33	Flexible Round Duct		Modulflex, Polar	
34	Fire Stop		Promat, Hilti, Or Equivalent	
35	Chemical Treatment/Dosing Pump		Corintek, Hikari, Or Equivalent	
<b>D. PLUMBING WORKS</b>				
1	Transfer Pump	Vertical Multistage, End Suction Pump	Regent, Aurora, Teral	
2	Sewage Pump	Submersible Pump	Regent, Aurora, Teral	
3	Booster Pump	Vertical Multistage With VSD	Regent, Aurora, Teral	
4	Filter Pump	Vertical Multistage Pump	ABC Or Equivalent	
5	Sand Filter	Manual Back Wash Type	ABC Or Equivalent	
6	Carbon Filter	Manual Back Wash Type	ABC Or Equivalent	
7	Clean Water Tank	Fiber Panel Tank	ISE, ABC Or Equivalent	
8	Heat Pump	Air To Water Heat Pump	Rheem Or Equivalent	
9	Individual Water Heater	Horizontal Type	Ferroli Or Equivalent	
10	Domestic Cold Water Pipe	PPR Pipe PN10, PN16, PN20	SD Pipe Or Equivalent	
11	Domestic Hot Water Pipe	PPR Pipe PN20	SD Pipe Or Equivalent	
12	Soil & Waste Water Pipe	PVC Pipe Class AW (Fitting Class D)	Vinilon, Rucika	
13	Kitchen Waste For Residential	PVC Pipe Class AW (Fitting Class D)	Vinilon, Rucika	
14	Kitchen Waste For Retail	CPVC	Kubota Pipe, Pipe Master	
15	Vent Pipe	PVC Pipe Class D	Vinilon, Rucika	
16	Rain Water Pipe	PVC Pipe Class AW (Fitting Class D)	Vinilon, Rucika	
17	Gas Pipe	Authorized Gas PGN Contractor Specialist		Refer To PGN Approval
18	Gate, Check Valve	Not Exceeding 65mm Diameter(Bronze) Exceeding 65mm Diameter (CI)	Yuta, Mech Or Equivalent	
19	Butterfly Valve		Yuta, Mech Or Equivalent	
20	Strainer		Yuta, Mech Or Equivalent	
21	Flexible Joint		Tozen Or Equivalent	
22	Presure Gauge		Nagona Or Equivalent	
23	Floor Drain		Smart Drain Or Equivalent	FOH
24	Floor Drain, Clean Out		Antasan Or Equivalent	BOH
25	Water Meter	Digital Type	Elmech Or Equivalent	
26	Ball Valve Gas		Kitz, GLT, Toyo	
27	Automatic Air Vent		Samyang Or Equivalent	
28	Water Hammer		Z-Tide Or Equivalent	
29	Presure Reducing Valve		Claval, Bayard	
30	Anti Return & Lockable Valve		Onda Or Equivalent	
31	Nolse Vibration		NSV Or Equivalent	
32	P Trap PVC		Vinilon, Rucika	
33	Anti Vortex		Tyco, Mizu	
34	Water Level Controller		Omron, Telemecanique	
35	Float Valve		Yuta, Mech	
<b>E. FIRE PROTECTION WORKS</b>				
1	Fire Pump	Horizontal Split Case Pump	Aurora, Patterson	UL/FM

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2	Jockey Pump	Vertical Multistage Pump	Aurora, Teral	
3	Indoor Hydrat Box		Hoseki Or Equivalent	
4	Outdoor Hydrant Box		Hoseki Or Equivalent	
5	Pilar Hydrant		Hoseki Or Equivalent	
6	Siamese Connection		Glacomini Or Equivalent	
7	Hydrant Pipe		Spindo, SPS	
8	Sprinkler Pipe	Black Steel Pipe Sch 40	Spindo, SPS	
9	HDPE Pipe		Vinilon, Rucika	
10	Fire Extinghuiser		Hoseki Or Equivalent	
11	Gate, Ball, Check Valve		Fivalco, Mech Or Equivalent	
12	Butterfly Valve		Fivalco, Mech Or Equivalent	
13	Automatic Air Vent		Yoshitake Or Equivalent	
14	Presure Gauge		Nagano Or Equivalent	
15	Presure Switch		Tyco, Reliable	
16	Presure Reducing Valve		Claval, Singer	
17	Main Control Valve		Fesco Or Equivalent	
18	Branch Control Valve		Fesco Or Equivalent	
19	Flow Meter		Gerand, Tyco	
20	Sprinkler Head		Fesco Or Equivalent	
21	Alarm Gong		Fesco Or Equivalent	
22	Flow Switch		Tyco, Reliable	
23	Pressure Gauge		Nagano Or Equivalent	
24	Automatic Air Vent		Yoshitake Or Equivalent	