

PROYEK : BPBD KELAPA SAWIT KEMENKEU
 PEKERJAAN : INSTALASI PLAMING
 PERIHAL : OUTLINE SPESIFIKASI
 REV. / TANGGAL : 00 / 27 AGUSTUS 2024
 DIBUAT OLEH : PT DUTA PRATAMA ENGINEERING

NO	URAIAN	SPESIFIKASI TEKNIS	MERK
A	AIR BERSIH		
1	Pompa Transfer Air Bersih - Existing		
2	Package Pompa Booster Air Bersih		Ebara-Indobara, Grundfos, Wilo Wiguna
	- Type	End Suction Centrifugal	
	- Casing	Cast Iron	
	- Impeler	Bronse Casting	
	- Shaft	Stainless steel	
	- Capacity	Sesuai gambar PL - 101	
	- Total Head	Sesuai gambar PL - 101	
	- Rotation	2850 - 3000 rpm	
	- Unit	Sesuai gambar PL - 101	
	- Operation	Sesuai gambar PL - 101	
	- Starter	VSD / Inverter	
	- Packing	Mechanical Seal	
	- Motor	3 phase / 380 V / 50 Hz / IP 55	
	- Standard	JIS, DIN, IEC	
3	Pipa Air Bersih		
	- Type	PPR	Genova, Riffo, Rucika, Vinilon
	- Class Pipa	PN 10	
	- Standard	DIN	
4	Fiting Air Bersih		
	- Type	PPR	Genova, Riffo, Rucika, Vinilon
	- Class Fitting	PN 20	
	- Standard	DIN	
5	Pipa Galvanized		KS, Nippon Steel, PPI
	- Material	Steel	
	- Class	Medium	
	- Standard	ASTM	
6	Floating Valve		Bayard, Claval, Singer, Socia, Yuta
	- Class	10 kgf / cm ²	
	- Material	Brass body dan stainless steel ball	
	- Standard	JIS	
7	Valve (Gate, Butterfly)		Kent, Riser, Weflo, Yuta
	- Class	10 kgf / cm ²	
	- Material	Cast Iron, Brass	
	- Standard	JIS, ASME	

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8	Check Valve		Kent, Riser, Weflo, Yuta
	- Class	10 kgf / cm ²	
	- Type	Swing	
	- Material	Cast iron	
	- Standard	ANSI	
9	Strainer Valve		Kent, Riser, Weflo, Yuta
	- Class	10 kgf / cm ²	
	- Type	Y Strainer	
	- Material	Cast Iron	
	- Standard	JIS	
10	Automatic Air Vent		Caleffi, Samyang, Yoshitake
	- Class	10 kgf / cm ² forged brass	
	- Material	Cast Iron , Brass	
	- Sealing Ring	Sintetic rubber / EPDM	
	- Standard	JIS	
11	Flexible Joint		
	- Class	10 kgf / cm ²	Muraflex, Tozen, Armflex, Proco
	- Type	Double sphere rubber	
	- Material	Sintetic Rubber	
	- Flange	Mild Steel, galvanized	
	- Standard	JIS	
12	Pressure Gauge		
	- Class	10 kgf / cm ²	Nagano, Sika, VPG, Yamamoto
	- Akurasi	1.5%	
	- Standard		
13	Water Meter lengkap dengan Lockable Valve		B&R, Bestini
	- Type	Horizontal rotary vane anti magnetic	
	- Class	10 kgf / cm ²	
	- Capacity	Oil - 99.999 m ³	
	- Akurasi	Error limit 2% s.d 5%	
	- Standard	SNI	
14	Tangki Air Atas (Roof Tank - Air Bersih)		Bams, Farmel, Mitra Bio
	- Type	Sesuai gambar PL - 101	
	- Capacity	Sesuai gambar PL - 101	
15	Anti Water Hammer		
	- Type	Anti Water Hammer (Eliminator)	Claval, KKK, Mooha, Singer
B	AIR BEKAS, AIR KOTOR & AIR HUJAN		
1	Pipa Air Kotor, Air Bekas, Air Kitchen Drain & Air Hujan		
	- Class	10 kgf / cm ² (AW)	Pipamas, Pralon, Rucika, Supramas, Vinilon
	- Material	PVC	
	- Standard	JIS	
2	Pipa Vent		
	- Class	5 kgf / cm ² (D)	Pipamas, Pralon, Rucika, Supramas, Vinilon
	- Material	PVC	
	- Standard	JIS	

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3	Fitting		
	- Class	AW dan D	Pralon, Rucika
	- Material	PVC	
	- Standard	JIS	
4	Floor Drain & Clean out		Kharisma, SPI, San-Ei, Toto
	- Type	Opening Waterproved Surface	
	- Material	Chromium plated bronze	
5	Roof Drain		Kharisma, SPI, San-Ei, Toto
	- Material	Cast Iron	
	- Type	Dome	
6	P-Trap		Rucika, TSK.
	- Material	PVC	
	- Type	Injector Moulding	
7	Individual Grease Trap (Keranjang)		
	- Type	Individual / Local	Kharisma, SPI, San-Ei, Toto
	- Material	Stainless steel 304, ketebalan plat 1,2 mm	
8	Instalasi Pengolahan Air Limbah (IPAL) - Existing		
C	PANEL & KABEL		
	a. Panel		Sinar Tekindo Mandiri, Simetri
	- Ketebalan plat minimum	- 1,5 mm (wall mounted) - 2 mm (free standing)	
	- Cat (coating)	Powder coating	
	- IP outdoor type	IP54	
	- IP indoor type	IP42	
	b. MCCB, MCB		ABB, Schneider
	c. Contactor, Metering dan Relay		ABB, Schneider, Siemens
	d. Kabel	NYN, NYM, NYFGBY, NA2XY	Kabelindo, Supreme