NO SIJIL: JANS.2026.97

SIJIL PERAKUAN PENDAFTARAN PEMBEKAL DAN PRODUK BEKALAN AIR

Adalah dengan ini diperakui bahawa syarikat dan produk yang tercatat di bawah telah berdaftar dengan Jabatan Air Sabah bagi kegunaan industri perkhidmatan air di negeri Sabah.

Nama Pembekal	:	**SPIROLITE (M) SDN BHD** Lot 4, Jalan P/2A, Kawasan Perindustrian Bangi, 43650 Bandar Baru Bangi, Selangor
Nama Pengilang	:	**GUANGDONG LIANSU TECHNOLOGY INDUSTRIAL CO. LTD** Liansu Industrial Estate, Longzhou Road, Longjiang Town, Shunde District, 528318 Foshan, Guangdong, China
Nama Prinsipal / Pemilik	:	**SPIROLITE (M) SDN BHD** Lot 4, Jalan P/2A, Kawasan Perindustrian Bangi, 43650 Bandar Baru Bangi, Selangor
Nama Produk	:	Polyethylene (PE) Electrofusion & Polyethylene (PE) Butt-Fusion Fittings
Kategori	:	A - Conveyance Of Water
Kelas/Saiz/Model	:	(Sila rujuk Jadual di muka surat belakang)
Jenama	:	**LESSO**
Piawaian	:	MS 1058-3 : 2023
Tarikh Dikeluarkan	:	14 September 2026

Kelulusan diberi tertakluk kepada syarat-syarat dan ketetapan berikut:-

i. Sah laku kelulusan ini berkuat kuasa sehingga **14 September 2028**.
ii. Jabatan Air Sabah tidak terikat untuk menggunakan produk ini.
iii. Jabatan berhak untuk melakukan pemeriksaan terhadap mana-mana pengilang produk.
iv. Kelulusan ini tidak boleh disalin dalam mana-mana bentuk untuk tujuan pengiklanan atau komersil tetapi ia boleh ditunjukkan sebagai bukti kelulusan sahaja.
v. Kelulusan ini terbatal secara tersendirinya sekiranya terdapat unsur penipuan, rasuah sama ada syarikat atau produk, ancaman terhadap keselamatan negara, perubahan kualiti, spesifikasi dan maklumat produk, cetak rompak, sijil dibatalkan oleh pihak Badan Pensijilan dan sebagainya.
vi. Jabatan berhak untuk membatalkan kelulusan ini jika aduan mengenai pengilang/pembekal/ejen atau produk diterima.
vii. Jabatan ini berhak untuk membatalkan kelulusan ini pada bila-bila masa jika pengilang/pembekal/ejen produk didapati tidak mematuhi Enakmen Bekalan Air Negeri Sabah 2003.
viii. Sila rujuk butiran di **Jadual Belakang** untuk maklumat terperinci produk yang berdaftar dengan Jabatan ini.

(Chee Chun Chieh)
Pengarah Jabatan Air Sabah

No Sijil : **JANS.2026.97**
Tarikh Sah Laku : **14.09.2028**

JADUAL

Nama Pembekal : **SPIROLITE (M) SDN BHD**
Nama Produk : **POLYETHYLENE (PE) ELECTROFUSION AND POLYETHYLENE (PE) BUTT-FUSION FITTINGS**
Jenama : **LESSO**

NO	MODEL	SIRI / RATING	PERIHAL/KELAS/SAIZ
1	ELBOW 45°	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm): 32, 40, 50, 63, 75, 90, 110, 125, 160, 180, 200, 225, 250, 315, 355 AND 400
2	ELBOW 90°	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm): 32, 40, 50, 63, 75, 90, 110, 125, 160, 180, 200, 225, 250, 315, 355 AND 400
3	TEE	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm): 32, 40, 50, 63, 75, 90, 110, 125, 160, 180, 200, 225, 250, 315, 355 AND 400
4	REDUCING TEE	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm): 32x20, 32x25, 40x20, 40x25, 40x32, 50x20, 50x25, 50x32, 50x40, 63x20, 63x25, 63x32, 63x40, 63x50, 75x40, 75x50, 75x63, 90x40, 90x50, 90x63, 90x75, 110x50, 110x63, 110x75, 110x90, 125x63, 125x75, 125x90, 125x110, 160x50, 160x63, 160x75, 160x90, 160x110, 180x160, 200x50, 200x63, 200x75, 200x90, 200x110, 200x160, 225x160, 250x50, 250x63, 250x75, 250x90, 250x110, 250x160, 250x200, 315x90, 315x110, 315x160, 315x200, 315x250, 400x110, 400x160, 400x200, 400x250 AND 400x315
5	REDUCER	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm) : 32x25, 40x32, 50x32, 50x40, 63x32, 63x40, 63x50, 75x63, 90x63, 90x75, 110x50, 110x63, 110x75, 110x90, 125x90, 125x110, 160x90, 160x110, 200x110, 200x160, 225×110, 225×160, 250x110, 250x160, 250x200, 315x160, 315x200, 315x250, 400x200 AND 400x315
6	COUPLER	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm) : 20, 25, 32, 40, 50, 63, 75, 90, 110, 125, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560 AND 630
7	STUD END	PN16, SDR 11, PE100	TYPE : JOINT WITH BUTT FUSION SIZE ND (mm) : 50, 63, 75, 90, 110, 125, 160, 180, 200, 225, 250, 280, 315, 355, 400 AND 500

No Sijil : **JANS.2026.97**
Tarikh Sah Laku : **14.09.2028**

JADUAL

Nama Pembekal : **SPIROLITE (M) SDN BHD**
Nama Produk : **POLYETHYLENE (PE) ELECTROFUSION AND POLYETHYLENE (PE) BUTT-FUSION FITTINGS**
Jenama : **LESSO**

NO	MODEL	SIRI / RATING	PERIHAL/KELAS/SAIZ
8	END CAP	PN16, SDR 11, PE100	TYPE : JOINT WITH BUTT FUSION SIZE ND (mm): 63, 75, 90, 110, 125, 160, 180, 200, 225, 250, 315, 355 AND 400
9	TAPPING SADDLE	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm): 63×25, 63×32, 75×32, 90×32, 90×63, 110×32, 110×40, 110×63, 125×32, 125×63, 160×32, 160×63, 180×32, 180×63, 200×32, 200×63, 200×90, 250×90, 315×110 AND 315×160
10	STRAIGHT SADDLE	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm): 75×63, 90×63, 110×63, 125×63, 180×63, 200×63, 200×90, 250×63, 250×90, 315×63, 315×90, 315×110 AND 315×160
11	STOP SADDLE	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm): 90, 110, 125, 160, 200, 250 AND 315
12	ELBOW 11.25°	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm) : 50, 63, 75, 90, 110 AND 125
13	ELBOW 22.5°	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm) : 50, 63, 75, 90, 110 AND 125
14	NEW TYPE ELECTRO FUSION COUPLER	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm) : 90, 110, 125, 160 AND 200
15	STUB FLANGE	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm) : 50, 63, 75, 90, 110, 160, 200, 225, 250, 315, 355, 400, 450, 500 AND 630
16	STUB FLANGE	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm) : 110
17	FLANGE (STEEL TRAY)	PN16, SDR 11, PE100	TYPE : JOINT WITH ELECTROFUSION SIZE ND (mm) : 50, 63, 75, 90, 110, 160, 200, 250, 315, 400, 450, 500 AND 630

No Sijil : **JANS.2026.97**
Tarikh Sah Laku : **14.09.2028**

JADUAL

Nama Pembekal : **SPIROLITE (M) SDN BHD**
Nama Produk : **POLYETHYLENE (PE) ELECTROFUSION AND POLYETHYLENE (PE) BUTT-FUSION FITTINGS**
Jenama : **LESSO**

NO	MODEL	SIRI / RATING	PERIHAL/KELAS/SAIZ
18	REDUCER	PN16, SDR 11, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 75×63, 90×63, 90×75, 110×50, 110×63, 110×75, 110×90, 125×63, 125×90, 125×110, 160×90, 160×110, 160×125, 180×63, 180×110, 180×160, 200×110, 200×160, 200×180, 225×160, 225×200, 250×110, 250×160, 250×200, 250×225, 315×160, 315×180, 315×200, 315×225, 315×250 AND 400×225
19	REDUCER	PN12.5, SDR 13.6, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 280×110, 280×160, 280×200, 315×110, 315×160, 315×200, 315×225, 315×250 AND 315×280
20	REDUCER	PN10, SDR 17, PE100	TYPE : JOINT WITH SPIGOT ENDSIZE ND (mm): 75×63, 90×63, 90×75, 110×50, 110×63, 110×75, 110×90, 125×63, 125×90, 125×110, 160×90, 160×110, 160×125, 180×63, 180×110, 180×160, 200×110, 200×160, 200×180, 225×160, 225×200, 250×110, 250×160, 50×200, 250×225, 280×110, 280×160, 280×200, 315×110, 315×160, 315×180, 315×200, 315×225, 315×250, 315×280, 355×200, 355×250, 355×315, 400×200, 400×225, 400×250, 400×280, 400×315, 450×200, 450×250, 450×315, 500×315, 500×355, 500×400, 500×450, 560×400, 560×450, 560×500, 630×315, 630×400 AND 630×500
21	REDUCER	PN6, SDR 26, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 500×315, 500×355, 500×400, 500×450, 560×315, 560×400, 560×450 AND 560×500
22	ELBOW 90°	PN16, SDR 11, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm) : 63, 75, 90, 110, 125, 160, 180, 200, 225, 250, 280, 315 AND 355
23	ELBOW 90°	PN10, SDR 17, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm) : 75, 90, 110, 125, 160, 180, 200, 225, 250, 280, 315 AND 355
24	ELBOW 45°	PN16, SDR 11, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm) : 75, 90, 110, 125, 160, 180, 200, 225, 250, 280, 315 AND 400

No Sijil : **JANS.2026.97**
Tarikh Sah Laku : **14.09.2028**

JADUAL

Nama Pembekal : **SPIROLITE (M) SDN BHD**
Nama Produk : **POLYETHYLENE (PE) ELECTROFUSION AND POLYETHYLENE (PE) BUTT-FUSION FITTINGS**
Jenama : **LESSO**

NO	MODEL	SIRI / RATING	PERIHAL/KELAS/SAIZ
25	ELBOW 45°	PN10, SDR 11, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 75, 90, 110, 125, 160, 180, 200, 225, 250, 280 AND 315
26	CROSS	PN16, SDR 11, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 63, 75, 90, 110, 125, 160, 200 AND 225
27	CROSS	PN10, SDR 17, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 63, 75, 90, 160, 110, 125, 200, 225 AND 315
28	REDUCING TEE	PN16, SDR 11, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 110×63, 110×75, 110×90, 160×63, 160×75, 160×90, 160×110, 200×50, 200×63, 200×75, 200×90, 200×110, 200×160, 250×50, 250×63, 250×75, 250×90, 250×110, 250×160, 250×200, 315×110, 315×160, 315×180, 315×200, 400×315
29	REDUCING TEE	PN10, SDR 17, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm) : 110×63, 110×75, 110×90, 160×63, 160×75, 160×90, 160×110, 200×90, 200×110, 200×160, 250×110, 250×160, 315×110, 315×160 AND 315×200
30	ELBOW 22.5°	PN16, SDR 11, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm) : 225
31	ELBOW 22.5°	PN10, SDR 17, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm) : 225
32	TEE	PN16, SDR 11, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 63, 75, 90, 110, 125, 160, 180, 200, 220, 250, 280 AND 315
33	TEE	PN10, SDR 17, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 63, 75, 90, 110, 125, 160, 180, 200, 220, 250, 280, 315, 355 AND 400
34	TEE	PN6, SDR 26, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm) : 355

No Sijil : **JANS.2026.97**
Tarikh Sah Laku : **14.09.2028**

JADUAL

Nama Pembekal : **SPIROLITE (M) SDN BHD**
Nama Produk : **POLYETHYLENE (PE) ELECTROFUSION AND POLYETHYLENE (PE) BUTT-FUSION FITTINGS**
Jenama : **LESSO**

NO	MODEL	SIRI / RATING	PERIHAL/KELAS/SAIZ
35	CAP	PN12.5, SDR 13.6, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 280
36	CAP	PN10, SDR 17, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): **63, 75, 90, 110, 125, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, AND 630**
37	STUB FLANGE	PN16, SDR 11, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 560
38	STUB FLANGE	PN12.5, SDR 13.6, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 355
39	STUB FLANGE	PN10, SDR 17, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm) : 50, 63, 75, 90, 110, 125, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560 AND 630
40	STUB FLANGE	PN6, SDR 26, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 500, 560 AND 630
41	FLANGE (STEEL TRAY)	PN16, SDR 11, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 75, 90, 110, 125, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560 AND 630
42	FLANGE (STEEL RAY)	PN10, SDR 17, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 75, 90, 110, 125, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560 AND 630
43	SPACER FLANGE	PN16, SDR 11, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 110, 160 AND 200
44	SPACER FLANGE	PN10, SDR 17, PE100	TYPE : JOINT WITH SPIGOT END SIZE ND (mm): 160 AND 200

No Sijil : **JANS.2026.97**
Tarikh Sah Laku : **14.09.2028**

JADUAL

Nama Pembekal : **SPIROLITE (M) SDN BHD**
Nama Produk : **POLYETHYLENE (PE) ELECTROFUSION AND POLYETHYLENE (PE) BUTT-FUSION FITTINGS**
Jenama : **LESSO**

NO	MODEL	SIRI / RATING	PERIHAL/KELAS/SAIZ
45	COUPLING (SOC x SOC)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 20, 25, 32, 40, 50, 63, 75, 90, 110
46	REDUCER (SOC x SOC)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 25x20, 32x20, 32x25, 40x20, 40x25, 40x32, 50x20, 50x25, 50x32, 50x40, 63x25, 63x32, 63x40, 63x50, 75x32, 75x40, 75x50, 75x63, 90x40, 90x50, 90x63, 90x75, 110x63
47	90° ELBOW (SOC x SOC)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 20, 25, 32, 40, 50, 63, 75, 90, 110
48	45° ELBOW (SOC x SOC)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 20, 25, 32, 40, 50, 63, 75, 90, 110
49	TEE (SOC x SOC)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 20, 25, 32, 40, 50, 63, 75, 90, 110
50	REDUCE TEE (SOC x SOC)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 25x20, 32x20, 32x25, 40x20, 40x25, 40x32, 50x20, 50x25, 50x32, 50x40, 63x25, 63x32, 63x40, 63x50, 75x32, 75x40, 75x50, 75x63, 90x40, 90x50, 90x63, 90x75
51	CAP (SOC)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 20, 25, 32, 40, 50, 63, 75, 90, 110
52	FEMALE THREAD UNION (SOC x FIPT with Metal)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 20, 25, 32, 40, 50, 63
53	MALE THREAD UNION (SOC x MIPT with Metal)	PN16, SDR 11, PE100	TYPE : JOINT WITTH SOCKET FUSION SIZE ND (mm): 20, 25, 32, 40, 50, 63
54	FLEXIBLE JOINT (SOC x FIPT with Metal)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 20, 25, 32, 63

No Sijil : **JANS.2026.97**
Tarikh Sah Laku : **14.09.2028**

JADUAL

Nama Pembekal : **SPIROLITE (M) SDN BHD**
Nama Produk : **POLYETHYLENE (PE) ELECTROFUSION AND POLYETHYLENE (PE) BUTT-FUSION FITTINGS**
Jenama : **LESSO**

NO	MODEL	SIRI / RATING	PERIHAL/KELAS/SAIZ
55	CHANGE UNION (SOC x SOC)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 20, 25, 32
56	PE SINGLE MALE MANIFOLD	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 50
57	STUB FLANGE (SOC x FLANGE	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 50, 63, 75
58	FLANGE (STEEL RAY)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 50, 63, 75
59	FEMALE THREAD ADAPTER I (SOC x FIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 20, 25, 32
60	FEMALE THREAD ADAPTER II (SOC x FIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 32, 40, 50, 63, 75
61	MALE THREAD ADAPTER I (SOC x FIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 20, 25, 32
62	MALE THREAD ADAPTER II (SOC x FIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 32, 40, 50, 63, 75
63	FEMALE THREAD ELBOW I (SOC x MIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITTH SOCKET FUSION SIZE ND (mm): 20, 25, 32
64	FEMALE THREAD ELBOW II (SOC x FIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 32, 40, 50, 63

No Sijil : **JANS.2026.97**
Tarikh Sah Laku : **14.09.2028**

JADUAL

Nama Pembekal : **SPIROLITE (M) SDN BHD**
Nama Produk : **POLYETHYLENE (PE) ELECTROFUSION AND POLYETHYLENE (PE) BUTT-FUSION FITTINGS**
Jenama : **LESSO**

NO	MODEL	SIRI / RATING	PERIHAL/KELAS/SAIZ
65	MALE THREAD ELBOW I (SOC x MIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 20, 25, 32
66	MALE THREAD ELBOW II (SOC x MIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 32, 40, 50, 63
67	FEMALE THREAD ELBOW WITH BASE (SOC X FIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 20, 25
68	MALE THREAD ELBOW WITH BASE (SOC X FIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 20, 25
69	FEMALE THREAD TEE I (SOC x SOC x FIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 20, 25, 32
70	FEMALE THREAD TEE II (SOC x SOC X FIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm) : 32, 50, 63, 75
71	MALE THREAD TEE I (SOC x SOC X FIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 20, 25, 32
72	MALE THREAD TEE II (SOC x SOC X FIPT with Metal Insert)	PN16, SDR 11, PE100	TYPE : JOINT WITH SOCKET FUSION SIZE ND (mm): 32, 50, 63, 75

NOTA PENTING

- Penama dinasihatkan untuk membuat permohonan pembaharuan pendaftaran produk sekurang-kurangnya **enam (6) bulan** sebelum tarikh sah laku sijil tamat.
- Permohonan pembaharuan yang melebihi tarikh sah laku sijil akan dianggap sebagai permohonan baharu.