REMT

SAMPLE SUBMISSION FORM

REF. NO. : RUSB/BOMBA/SSF/030

CADANGAN PEMBINAAN PROJEK BALAI BOMBA DAN PENYELAMAT BEAUFORT, SABAH

TO : AR. NOOR IZWAN - NOOR IZWAN ARCHITECT (NIA)

FROM : SULASTRI - REMT UTAMA SDN BHD

DATE : 24 Ogos 2020

MATERIAL : Rain Water Down Pipe (RWDP)

	DESCRIPTION	COMPANY/BRAND	MODEL/TECHNICAL
1	UPVC Rain Water Down Pipe	**Option 1 :**	82mm (Dia) x 5800mm (L)
		Brand : CS	
		Manufacturer : Cew Sin Plastic Pipe Sdn Bhd	
		Option 2 :	
		Brand : SAE	
		Manufacturer : South Asia Fibre Industries Sdn Bhd	

SIGNATURE :

COMMENT : For your perusal and approval.

APPROVED/RESUBMIT :

SIGNATURE : DATE :

ATTACHMENTS : [/] YES [ ] NO

DISTRIBUTION : [ ] CLIENT [/] ARCHITECT [ ] C&S [ ] M&E

	BK-PEMB-PK(P)-08-07	**Pindaan**	**00**
	BORANG KELULUSAN BAHAN/PEMERIKSAAN MOCK-UP	Mukasurat	**1 / 1**
		Tarikh	**24/08/2020**

BORANG KELULUSAN BAHAN/PEMERIKSAAN MOCK-UP

PROJEK: CADANGAN PEMBINAAN PROJEK BALAI BOMBA DAN PENYELAMAT BEAUFORT, SABAH No. Kontrak : KPKT/CPPP/JBPM/14/15/2019		Kontraktor : REMT UTAMA SDN BHD	
BUTIRAN KERJA KELULUSAN BAHAN/MOCK-UP/ DESKRIPSI ITEM SAMPEL: Rain Water Down Pipe		Lokasi *~~Mock-up~~/ Bahan/~~Kerja~~ : Blok Utama	Tarikh: 24/08/2020
Model: UPVC Rain Water Down Pipe	Pengilang: Cew Sin Plastic Pipe Sdn Bhd (CS)	Negara Asal:. Malaysia	Pengedar Tempatan: Cew Sin Plastic Pipe Sdn Bhd

PERAKUAN CPP/PERUNDING (Arkitek/~~M&E/C&S~~) **(*Jika projek R&B*):**

Saya dengan ini mengesahkan bahawa cadangan bahan/~~peralatan/~~*~~mock-up~~* adalah mematuhi kehendak spesifikasi dan berfungsi seperti kehendak kontrak.

Disertakan :

Katalog ☐ Lukisan ☐ Sampel Bahan ☐ Spesifikasi ☐ Sijil ☐

Sampel kerja ☐ *Mock-up* ☐

Tandatangan ~~CPP/~~Perunding Arkitek/~~M&E/C&S~~*	Jawatan/Cap Rasmi
Nama : Ar. Noor Izwan Rahim	Tarikh : 24 Ogos 2020

PERAKUAN KONTRAKTOR :

Saya dengan ini berjanji akan mematuhi kehendak CPP/Perunding* dan memastikan *bahan/peralatan/mock up/kerja yang dicadangkan mengikut spesifikasi dan berfungsi seperti di dalam kontrak.

Tandatangan Wakil Kontraktor	Jawatan/Cap Rasmi
Nama : Sulastri Binti Pongot	Tarikh : 24 Ogos 2020

KEPUTUSAN JKR CPP:

Dipersetujui (*concurred*) ☐

Walaupun perkara di atas telah dipersetujui, adalah menjadi tanggungjawab kontraktor bagi memastikan *bahan/peralatan/mock up/kerja mematuhi kehendak spesifikasi dan berfungsi seperti yang telah dinyatakan di dalam kontrak.

Ditolak dan perlu kemukakan semula ☐

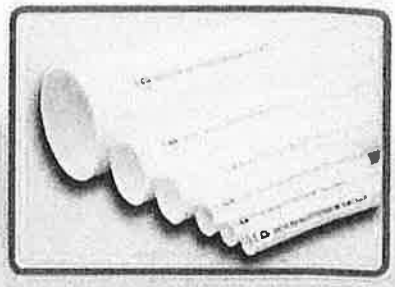
Tandatangan KUR*(Arkitek/M&E/C&S)/Wakil PP	Jawatan/Cap Rasmi
Nama :	Tarikh

Nota: * Potong yang tidak berkenaan

PVC-U PIPES

PVC-U SOIL, WASTE & VENT PIPES (SWV)

(MS 1063:2002) BS 4514,BS 5481 & BS 5255



CODE B

PRODUCT CODE	NORMINAL/ SIZES		OUTSIDE DIAMETER (MM)		WALL THICKNESS (MM)		LENGTH (METER)
	(IN.)	(MM)	MIN	MAX	MIN	MAX	
PS-W-036-B-5.8-WT	1-1/4	36	36.20	36.50	3.00	3.50	5.8
PS-W-043-B-5.8-WT	1-1/2	43	42.80	43.10	3.00	3.50	5.8
PS-W-056-B-5.8-WT	2	56	55.80	56.10	3.00	3.50	5.8
PS-W-082-B-5.8-WT	3	82	82.40	82.80	3.00	3.50	5.8
PS-W-110-B-5.8-WT	4	110	110.00	110.30	3.20	3.80	5.8
PS-W-160-B-5.8-WT	6	160	160.00	160.40	3.20	3.80	5.8
PS-W-200-B-5.8-WT	8	200	200.00	200.50	3.90	4.50	5.8
PS-W-250-B-5.8-WT	10	250	250.00	250.50	4.90	5.60	5.8
PS-W-315-B-5.8-WT	12	315	315.00	315.60	6.20	7.10	5.8

CODE BD

PRODUCT CODE	NORMINAL/ SIZES		OUTSIDE DIAMETER (MM)		WALL THICKNESS (MM)		LENGTH (METER)
	(IN.)	(MM)	MIN	MAX	MIN	MAX	
PS-W-082-BD-5.8-WT	3	82	82.40	82.80	3.00	3.50	5.8
PS-W-110-BD-5.8-WT	4	110	110.00	110.30	3.20	3.80	5.8
PS-W-160-BD-5.8-WT	6	160	160.00	160.40	4.00	4.60	5.8
PS-W-200-BD-5.8-WT	8	200	200.00	200.50	4.90	5.60	5.8
PS-W-250-BD-5.8-WT	10	250	250.00	250.50	6.20	7.10	5.8
PS-W-315-BD-5.8-WT	12	315	315.00	315.60	7.70	8.70	5.8

Code 'B' = Application for Components intended use above ground inside or outside building fixed onto the wall.

Code 'BD' = Application for Components Intended use above ground for both inside or outside building fixed onto the wall and buried in building structures.

Soil, Waste and Ventilating pipe are complied with(MS 1063:2002) BS 4514, MS 5481 & BS 5255 which intended to use for soil and waste discharge pipe-work for conveyance waste water or Sanitary Stack,Ventilation Pipe-Work associated within the building structures. Pipes available in the sizes range from 36mm to 315mm.
This pipe available in white color.
Method of Joint with Solvent Cement

Features:

- **No deposits and smooth surface.**
- **S.W.V Pipes are non-corrosive.**
- **S.W.V Pipes are long life than others.**
- **S.W.V Pipes are suitable for residential, commercial and Industrial sector.**

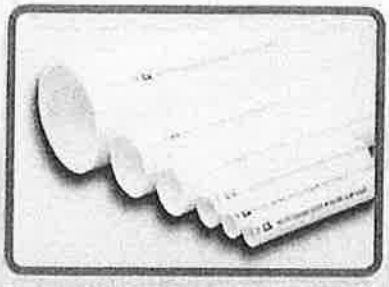
PVC-U UNDERGROUND SEWERAGE PIPES

(MS 979: PART1: 1985) BS 4660: 1973 & (MS 979: PART 2:1985)

PRODUCT CODE	NORMINAL/ SIZES		OUTSIDE DIAMETER (MM)		MIN WALL THICKNESS	LENGTH (METER)
	(IN.)	(MM)	MIN	MAX		
PS-UG-100-5.8-BR	4	100	110.00	110.40	3.2	5.8
PS-UG-155-5.8-BR	6	155	160.00	160.60	4.1	5.8
PS-UG-200-5.8-BR	8	200	200.00	200.60	4.9	5.8
PS-UG-250-5.8-BR	10	250	250.00	250.70	6.1	5.8
PS-UG-315-5.8-BR	12	315	315.00	315.90	7.7	5.8



The Underground Sewerage Pipes commonly known as the "Sewer & Storm Pipes" which are suitable for all underground usage.



PVC-U RAINWATER DOWN PIPES

(BS EN 12200 – 1: 2000)
BS 4576

The Rainwater Down Pipes are specially designed for Rain & Storm Water discharge from the roof top to ground. Our pipes are manufactured and certified as according to International Standards. These Pipe are made from high quality of PVC-U Material which have an excellent properties such as higher strength and corrosion resistant with light weight. There are 3 types of Rain Water Downpipes which is **Light Duty** (suitable for Landed Properties such as Terrace Houses or Bungalow Houses), **Medium Duty** (suitable for High Rise Properties such as Apartment, Condominium and Commercial Building) & **Heavy Duty** (suitable for Highest Stiffness especially cast into Reinforced Concrete Columns or Pillar.

Features:

- Excellent internal/external corrosion resistance – can be last for a long service life
- Lightweight – ease of handling and reduced laying costs

☆ The UPVC Pipe CODE : BD (MS1063:2002) is recommend and design for rainwater downpipe as normal duty, and the wall thickness are made to comply ISO 1452-2 with working pressure up to 6.3 Bar.

LIGHT DUTY
Conformance Standard BS EN 12200 - 1

PRODUCT CODE	NORMINAL/ SIZES		OUTSIDE DIAMETER (MM)		MIN WALL THICKNESS	LENGTH (METER)
	(IN.)	(MM)	MIN	MAX		
PS-RWLD-082-5.8-WT	3	82	82.4	82.8	1.8	5.8
PS-RWLD-110-5.8-WT	4	110	110.00	110.40	2.2	5.8
PS-RWLD-160-5.8-WT	6	160	160.00	160.60	3.2	5.8
PS-RWLD-200-5.8-WT	8	200	200.00	200.60	3.9	5.8
PS-RWLD-250-5.8-WT	10	250	250.00	250.70	4.9	5.8
PS-RWLD-315-5.8-WT	12	315	315.00	315.90	6.2	5.8

MEDIUM DUTY - For exposed & casting in the small size of RC column
Conformance Standard BS EN 12200 - 1

PRODUCT CODE	NORMINAL/SIZES		OUTSIDE DIAMETER (MM)		MIN WALL THICKNESS	LENGTH (METER)
	(IN.)	(MM)	MIN	MAX		
PS-RWMD-082-5.8-WT	3	82	82.4	82.8	3.2	5.8
PS-RWMD-110-5.8-WT	4	110	110.00	110.40	4.2	5.8
PS-RWMD-160-5.8-WT	6	160	160.00	160.60	6.2	5.8
PS-RWMD-200-5.8-WT	8	200	200.00	200.60	7.7	5.8
PS-RWMD-250-5.8-WT	10	250	250.00	250.70	9.6	5.8
PS-RWMD-315-5.8-WT	12	315	315.00	316.00	12.1	5.8

* WALL THICKNESS ARE MADE COMPLIED TO "ISO 1452-2 WITH WORKING PRESSURE UP TO 10 BAR

HEAVY DUTY - For casting in the RC Column / underground
Conformance Standard BS EN 12200 - 1

PRODUCT CODE	NORMINAL/ SIZES		OUTSIDE DIAMETER (MM)		MIN WALL THICKNESS	LENGTH (METER)
	(IN.)	(MM)	MIN	MAX		
PS-RWHD-082-5.8-WT	3	82	82.4	82.8	4.6	5.8
PS-RWHD-110-5.8-WT	4	110	110.00	110.40	5.3	5.8
PS-RWHD-160-5.8-WT	6	160	160.00	160.60	7.7	5.8
PS-RWHD-200-5.8-WT	8	200	200.00	200.60	9.6	5.8
PS-RWHD-250-5.8-WT	10	250	250.00	250.70	11.9	5.8
PS-RWHD-315-5.8-WT	12	315	315.00	316.00	15.0	5.8

* WALL THICKNESS ARE MADE COMPLIED TO "ISO 1452-2 WITH WORKING PRESSURE UP TO 12.5 BAR

No Lesen : **PC011003**
Licence No :

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31200 CHEMOR
PERAK, MALAYSIA

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UNPLASTICIZED POLYVINYL CHLORIDE (PVC-U) PIPES FOR SOIL AND WASTE DISCHARGE (LOW AND HIGH TEMPERATURE) WITHIN THE BUILDING STRUCTURE

Please refer to detail in the SCHEDULE

sebagai mematuhi keperluan
as complying with
MS 1063 : 2002

Mohd Azanuddin bin Salleh
Ketua Pegawai Eksekutif
Chief Executive Officer
SIRIM QAS International Sdn. Bhd.

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Tarikh Mula Pensijilan *Certified Since*	**: 27 February 1998**	**Tarikh Dikeluarkan** *Issue Date*	**: 10 March 2020**
Sah Sehingga *Valid Until*	**: 27 February 2021**	**No Siri** *Serial No*	: 053671

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Trade Mark : CEW SIN
Model : APPLICATION AREA CODE: B
Rating : NOMINAL SIZE : 36, 43, 56, 82, 110, 160, 200, 250, 315MM

Model :AREA APPLICATION CODE: BD
Rating :NOMINAL SIZE: 36, 43, 56, 82, 110, 160, 200, 250, 315MM

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Tarikh Mula Pensijilan *Certified Since*	**: 27 February 1998**	**Tarikh Dikeluarkan** *Issue Date*	**: 10 March 2020**
Sah Sehingga *Valid Until*	**: 27 February 2021**	**No Siri** *Serial No*	: 053671

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Please refer to detail in the SCHEDULE

sebagai mematuhi keperluan
as complying with
MS 1063 : 2002

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Tarikh Mula Pensijilan	**: 10 March 2006**	**Tarikh Dikeluarkan**	**: 04 April 2020**
Certified Since		*Issue Date*	
Sah Sehingga	**: 10 March 2021**	**No Siri**	**: 054144**
Valid Until		*Serial No*	

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No Lesen : **PC011010**
Licence No :

SCHEDULE

CEW SIN PLASTIC PIPE SDN. BHD.

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Trade Mark : CS / CEW SIN
Model : 92° BEND WITH INSPECTION OPENING (SWEPT)
Type : APPLICATION AREA CODE: B
Size : NOMINAL SIZE (mm): 56, 110 AND 160

Trade Mark : CS / CEW SIN
Model : 45° BEND (SWEPT)
Type : APPLICATION AREA CODE: B
Size : NOMINAL SIZE (mm): 110

Trade Mark : CS / CEW SIN
Model : 92° BEND (SWEPT)
Type : APPLICATION AREA CODE: B
Size : NOMINAL SIZE (mm): 36, 43, 56, 82, 110 AND 160

Trade Mark : CS / CEW SIN
Model : EQUAL SINGLE BRANCH (SWEPT)
Type : APPLICATION AREA CODE: B
Size : NOMINAL SIZE (mm): 36, 43, 56, 82, 110 AND 160

Trade Mark : CS / CEW SIN
Model : VENT COWL
Type : APPLICATION AREA CODE: B
Size : NOMINAL SIZE (mm): 110

Trade Mark : CS / CEW SIN
Model : BOSS CONNECTOR
Type : APPLICATION AREA CODE: B
Size : NOMINAL SIZE (mm): 82x56, 110x56, 110x82, 160x82 AND 160x110

Trade Mark : CS / CEW SIN
Model : 135° BEND (SWEPT)
Type : APPLICATION AREA CODE: B
Size : NOMINAL SIZE (mm): 36, 43, 56, 82, 110, 160 AND 200

Trade Mark : CS / CEW SIN
Model : EQUAL SINGLE BRANCH WITH INSPECTION OPENING (SWEPT)
Type : APPLICATION AREA CODE: B
Size : NOMINAL SIZE (mm): 110

Trade Mark : CS / CEW SIN
Model : STRAIGHT COUPLER
Type : APPLICATION AREA CODE: B
Size : NOMINAL SIZE (mm): 36, 43, 56, 82, 110 AND 160

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SCHEDULE

CEW SIN PLASTIC PIPE SDN. BHD.

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Trade Mark : CS / CEW SIN
Model : REDUCING BUSH
Type : APPLICATION AREA CODE: B
Size : NOMINAL SIZE (mm): 43x36, 56x36, 56x43, 82x56, 110x56 AND 110x82

Trade Mark : CS / CEW SIN
Model : REDUCING SINGLE BRANCH
Type : APPLICATION AREA CODE: B
Size : NOMINAL SIZE (mm): 110x56 AND 160x110

Trade Mark : CS / CEW SIN
Model : REDUCING SINGLE BRANCH WITH INSPECTION OPENING
Type : APPLICATION AREA CODE: B
Size : NOMINAL SIZE (mm): 160x110

Trade Mark : CS / CEW SIN
Model : REDUCING SOCKET
Type : APPLICATION AREA CODE: B
Size : NOMINAL SIZE (mm): 160x110

Trade Mark : CS / CEW SIN
Model : END CAP
Type : APPLICATION AREA CODE: B
Size : NOMINAL SIZE (mm): 56

Trade Mark : CS / CEW SIN
Model : DOME GRATING
Type : APPLICATION AREA CODE: B
Size : NOMINAL SIZE (mm): 110

Trade Mark : CS / CEW SIN
Model : 68° BEND WITH INSPECTION OPENING
Type : APPLICATION AREA CODE: B
Size : NOMINAL SIZE (mm): 200

Trade Mark : CS / CEW SIN
Model : 92° BEND WITH INSPECTION OPENING (SWEPT)
Type : APPLICATION AREA CODE: BD
Size : NOMINAL SIZE (mm): 82, 110 AND 160

Trade Mark : CS / CEW SIN
Model : 92° BEND (SWEPT)
Type : APPLICATION AREA CODE: BD
Size : NOMINAL SIZE (mm): 82, 110, 160 AND 200

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Trade Mark : CS / CEW SIN
Model : 135° BEND (SWEPT)
Type : APPLICATION AREA CODE: BD
Size : NOMINAL SIZE (mm): 82, 110, 160 AND 200

Trade Mark : CS / CEW SIN
Model : EQUAL SINGLE BRANCH (SWEPT)
Type : APPLICATION AREA CODE: BD
Size : NOMINAL SIZE (mm): 82, 110, 160 AND 200

Trade Mark : CS / CEW SIN
Model : EQUAL SINGLE BRANCH WITH INSPECTION OPENING (SWEPT)
Type : APPLICATION AREA CODE: BD
Size : NOMINAL SIZE (mm): 110, 160 AND 200

Trade Mark : CS / CEW SIN
Model : REDUCING SINGLE BRANCH
Type : APPLICATION AREA CODE: BD
Size : NOMINAL SIZE (mm): 110x82 AND 160x110

Trade Mark : CS / CEW SIN
Model : REDUCING SINGLE BRANCH WITH INSPECTION OPENING
Type : APPLICATION AREA CODE: BD
Size : NOMINAL SIZE (mm): 160x110

Trade Mark : CS / CEW SIN
Model : STRAIGHT COUPLER
Type : APPLICATION AREA CODE: BD
Size : NOMINAL SIZE (mm): 82, 110, 160, 200 AND 250

Trade Mark : CS / CEW SIN
Model : PIPE SLEEVE
Type : APPLICATION AREA CODE: BD
Size : NOMINAL SIZE (mm): 56, 110, 160 AND 200

Trade Mark : CS / CEW SIN
Model : BOSS CONNECTOR
Type : APPLICATION AREA CODE: BD
Size : NOMINAL SIZE (mm): 82x56, 110x56, 110x82, 160x82, 160x110 AND 200x160

Trade Mark : CS / CEW SIN
Model : REDUCING BUSH
Type : APPLICATION AREA CODE: BD
Size : NOMINAL SIZE (mm): 110x82, 160x110 AND 200x110

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a licence to use the Certification Mark on

UNPLASTICIZED POLYVINYL CHLORIDE (PVC-U) PIPES FOR NON - PRESSURE UNDERGROUND DRAINAGE AND SEWERAGE

Please refer to detail in the SCHEDULE

sebagai mematuhi keperluan
as complying with
MS 979 : PART 1 : 1985

Mohd Azanuddin bin Salleh
Ketua Pegawai Eksekutif
Chief Executive Officer
SIRIM QAS International Sdn. Bhd.

SIRIM QAS International Sdn. Bhd.
(No Syarikat 410334-X)
1, Persiaran Dato' Menteri
Seksyen 2, Peti Surat 7035
40700 Shah Alam
Selangor Darul Ehsan
MALAYSIA

Tel : 60-3-55446400
Faks : 60-3-55446466

http://www.sirim.my
http://www.malaysiancertified.com.my

Tarikh Mula Pensijilan *Certified Since*	**: 23 August 2002**	**Tarikh Dikeluarkan** *Issue Date*	**: 27 August 2019**
Sah Sehingga *Valid Until*	**: 23 August 2020**	**No Siri** *Serial No*	**: 048777**

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No Lesen : **PC011010**
Licence No :

SCHEDULE

CEW SIN PLASTIC PIPE SDN. BHD.

SIRIM

Trade Mark : CS / CEW SIN
Model : LEVEL INVERT REDUCING SOCKET
Type : APPLICATION AREA CODE: BD
Size : NOMINAL SIZE (mm): 110x82, 160x110, 200x160 AND 250x200

Trade Mark : CS / CEW SIN
Model : Y-TEE
Type : APPLICATION AREA CODE: BD
Size : NOMINAL SIZE (mm): 82

Trade Mark : CS / CEW SIN
Model : REDUCING Y-TEE
Type : APPLICATION AREA CODE: BD
Size : NOMINAL SIZE (mm): 160x110

Trade Mark : CS / CEW SIN
Model : REDUCING CROSS TEE
Type : APPLICATION AREA CODE: BD
Size : NOMINAL SIZE (mm): 160x110

Trade Mark : CS / CEW SIN
Model : END CAP
Type : APPLICATION AREA CODE: BD
Size : NOMINAL SIZE (mm): 110

End of page

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Selangor Darul Ehsan
MALAYSIA.

Tel : 60-3-55446400
Faks : 60-3-55446466

http://www.sirim.my
http://www.malaysiancertified.com.my

Tarikh Mula Pensijilan : 10 March 2006
Certified Since

Sah Sehingga : 10 March 2021
Valid Until

Tarikh Dikeluarkan : 04 April 2020
Issue Date

No Siri : 054144
Serial No

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No Lesen : **PC002611**
Licence No :

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Product Certification Licence

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CEW SIN PLASTIC PIPE SDN. BHD.
LOT 305009 & 305010, JALAN CHEPOR 11/10
PUSAT INDUSTRI SERAMIK FASA 2, CHEPOR
31200 CHEMOR
PERAK, MALAYSIA

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a licence to use the Certification Mark on

UNPLASTICIZED POLYVINYL CHLORIDE (PVC-U) PIPES FOR NON - PRESSURE UNDERGROUND DRAINAGE AND SEWERAGE

Please refer to detail In the SCHEDULE

sebagai mematuhi keperluan
as complying with
MS 979 : PART 2 : 1985

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Ketua Pegawai Eksekutif
Chief Executive Officer
SIRIM QAS International Sdn. Bhd.

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Selangor Darul Ehsan
MALAYSIA

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Faks : 60-3-55446466

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Tarikh Mula Pensijilan *Certified Since*	: 04 November 2016	Tarikh Dikeluarkan *Issue Date*	: 06 November 2019
Sah Sehingga *Valid Until*	: 04 November 2020	No Siri *Serial No*	: 050523

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No Lesen : **PC011004**
Licence No :

SCHEDULE

CEW SIN PLASTIC PIPE SDN. BHD.

SIRIM

Trade Mark : CEW SIN
Size : NOMINAL SIZE: 100mm AND 155mm

End of page

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Selangor Darul Ehsan
MALAYSIA.

Tel : 60-3-55446400
Faks : 60-3-55445466

http://www.sirim.my
http://www.malaysiancertified.com.my

Tarikh Mula Pensijilan *Certified Since*	**: 23 August 2002**	**Tarikh Dikeluarkan** *Issue Date*	**: 27 August 2019**
Sah Sehingga *Valid Until*	**: 23 August 2020**	**No Siri** *Serial No*	**: 048777**

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No Lesen : **PC004093**
Licence No :

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31200 CHEMOR
PERAK, MALAYSIA

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UNPLASTICIZED POLYVINYL CHLORIDE (PVC-U) FITTINGS FOR NON - PRESSURE UNDERGROUND DRAINAGE AND SEWERAGE

Please refer to detail in the SCHEDULE

sebagai mematuhi keperluan
as complying with
MS 979 : PART 2 : 1985

Mohd Azanuddin bin Salleh
Ketua Pegawai Eksekutif
Chief Executive Officer
SIRIM QAS International Sdn. Bhd.

SIRIM QAS International Sdn. Bhd.
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Selangor Darul Ehsan
MALAYSIA

Tel : 60-3-55446400
Faks : 60-3-55446460

http://www.sirim.my
http://www.malaysiancertified.com.my

Tarikh Mula Pensijilan *Certified Since*	**: 04 January 2019**	**Tarikh Dikeluarkan** *Issue Date*	**: 19 November 2019**
Sah Sehingga *Valid Until*	**: 04 January 2021**	**No Siri** *Serial No*	: 050797

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No Lesen : **PC002611**
Licence No :

SCHEDULE

CEW SIN PLASTIC PIPE SDN. BHD.

SIRIM

Trade Mark : CS
Rating : SDR 41
Type : PLAIN END PIPES
Size : NOMINAL SIZE (MM) : 200, 250 & 315

End of page

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MALAYSIA

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Faks : 60-3-55446466

http://www.sirim.my
http://www.mmlayslancertified.com.my

Tarikh Mula Pensijilan *Certified Since*	**: 04 November 2016**	**Tarikh Dikeluarkan** *Issue Date*	**: 06 November 2019**
Sah Sehingga *Valid Until*	**: 04 November 2020**	**No Siri** *Serial No*	: 050523

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No Lesen : **PC011019**
Licence No :

LESEN PENSIJILAN BARANGAN

Product Certification Licence

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POLYVINYL CHLORIDE (PVC) SOLVENT CEMENT

Please refer to detail in the SCHEDULE

sebagai mematuhi keperluan
as complying with
MS 628-4 : 2015

Mohd Azanuddin bin Salleh
Ketua Pegawai Eksekutif
Chief Executive Officer
SIRIM QAS International Sdn. Bhd.

SIRIM QAS International Sdn. Bhd.
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Selangor Darul Ehsan
MALAYSIA.

Tel : 60-3-55446400
Faks : 60-3-55446466

http://www.sirim.my
http://www.malaysiancertified.com.my

Tarikh Mula Pensijilan	**: 08 July 2011**	**Tarikh Dikeluarkan**	**: 09 May 2020**
Certified Since		*Issue Date*	
Sah Sehingga	**: 20 May 2021**	**No Siri**	: 054702
Valid Until		*Serial No*	

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No Lesen : **PC004093**
Licence No :

SCHEDULE

CEW SIN PLASTIC PIPE SDN. BHD.

SIRIM

Trade Mark : CS
Model : 92° Swept Bend, 135° Bend, 68° Bend, 68° Bend with I/O
Rating : SDR41
Size : NOMINAL SIZE (mm): 200

Trade Mark : CS
Model : Equal Single Branch, Equal Single Branch with I/O
Rating : SDR41
Size : NOMINAL SIZE (mm): 200

Trade Mark : CS
Model : Straight Coupling
Rating : SDR41
Size : NOMINAL SIZE (mm): 200

Factory Name and Location :
CEW SIN PLASTIC PIPE SDN. BHD.
10 1/4 MILES, JALAN KUALA KANGSAR
31200 CHEMOR
PERAK, MALAYSIA

End of page

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40700 Shah Alam
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MALAYSIA.

Tel : 60-3-55446400
Faks : 60-3-55446460

http://www.sirim.my
http://www.malaysiancontact.com.my

Tarikh Mula Pensijilan : **04 January 2019**
Certified Since

Sah Sehingga : **04 January 2021**
Valid Until

Tarikh Dikeluarkan : **19 November 2019**
Issue Date

No Siri : 050797
Serial No

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No Lesen : **PC011019**
Licence No :

SCHEDULE

CEW SIN PLASTIC PIPE SDN. BHD.

SIRIM

Trade Mark : CS
Model : NO 70

Factory Name and Location :
MIGHTY ADHESIVE SDN. BHD.
LOT 37090 (AL 49B)
KG. BARU SG. BULOH
47000 SUNGAI BULOH
SELANGOR, MALAYSIA

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Tel : 60-3-55446400
Faks : 60-3-55446466

http://www.sirim.my
http://www.malaysiancertified.com.my

Tarikh Mula Pensijilan	**: 08 July 2011**	**Tarikh Dikeluarkan**	**: 09 May 2020**
Certified Since		*Issue Date*	
Sah Sehingga	**: 20 May 2021**	**No Siri**	**: 054702**
Valid Until		*Serial No*	

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	BK-PEMB-PK(P)-08-07	**Pindaan**	**00**
	BORANG KELULUSAN BAHAN/PEMERIKSAAN MOCK-UP	Mukasurat	**1 / 1**
		Tarikh	**24/08/2020**

BORANG KELULUSAN BAHAN/PEMERIKSAAN MOCK-UP

PROJEK: CADANGAN PEMBINAAN PROJEK BALAI BOMBA DAN PENYELAMAT BEAUFORT, SABAH No. Kontrak : KPKT/CPPP/JBPM/14/15/2019		Kontraktor : REMT UTAMA SDN BHD	
BUTIRAN KERJA KELULUSAN BAHAN/MOCK-UP/ DESKRIPSI ITEM SAMPEL: Rain Water Down Pipe		Lokasi *~~Mock-up~~/ Bahan/~~Kerja~~ : Blok Utama	Tarikh: 24/08/2020
Model: UPVC Rain Water Down Pipe	Pengilang: South Asia Fibre Industries Sdn Bhd (SAE)	Negara Asal:. Malaysia	Pengedar Tempatan: South Asia Fibre Industries Sdn Bhd

PERAKUAN CPP/PERUNDING (Arkitek/~~M&E/C&S~~) (***Jika projek R&B***):

Saya dengan ini mengesahkan bahawa cadangan bahan/~~peralatan/*mock-up*~~ adalah mematuhi kehendak spesifikasi dan berfungsi seperti kehendak kontrak.

Disertakan :

Katalog ☐ Lukisan ☐ Sampel Bahan ☐ Spesifikasi ☐ Sijil ☐

Sampel kerja ☐ *Mock-up* ☐

Tandatangan ~~CPP~~/Perunding Arkitek/~~M&E/C&S~~*	Jawatan/Cap Rasmi
Nama : Ar. Noor Izwan Rahim	Tarikh : 24 Ogos 2020

PERAKUAN KONTRAKTOR :

Saya dengan ini berjanji akan mematuhi kehendak CPP/Perunding* dan memastikan *bahan/peralatan/mock up/kerja yang dicadangkan mengikut spesifikasi dan berfungsi seperti di dalam kontrak.

Tandatangan Wakil Kontraktor	Jawatan/Cap Rasmi
Nama : Sulastri Binti Pongot	Tarikh : 24 Ogos 2020

KEPUTUSAN JKR CPP:

Dipersetujui (*concurred*) ☐

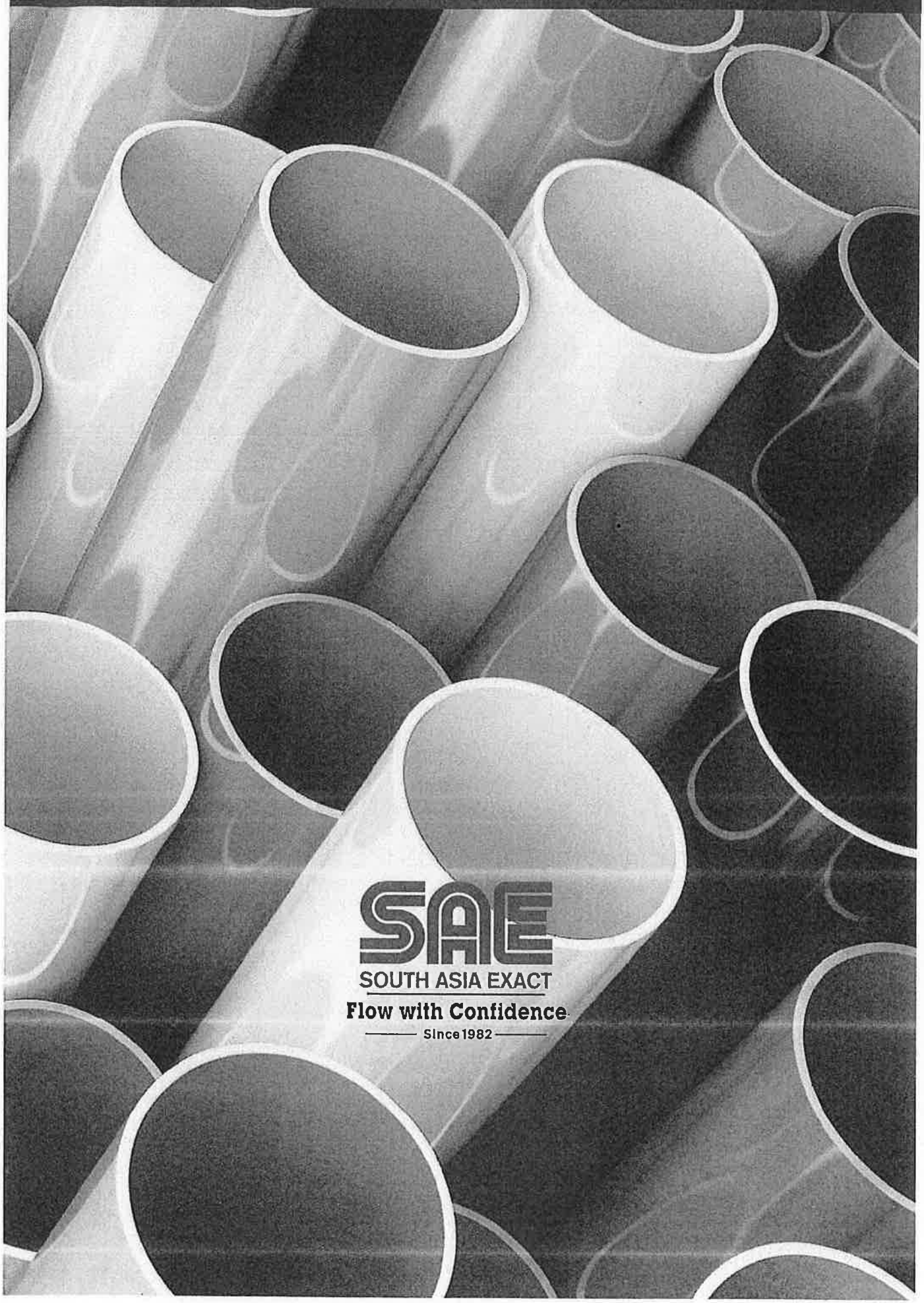
Walaupun perkara di atas telah dipersetujui, adalah menjadi tanggungjawab kontraktor bagi memastikan *bahan/peralatan/mock up/kerja mematuhi kehendak spesifikasi dan berfungsi seperti yang telah dinyatakan di dalam kontrak.

Ditolak dan perlu kemukakan semula ☐

Tandatangan KUR*(Arkitek/M&E/C&S)/Wakil PP	Jawatan/Cap Rasmi
Nama :	Tarikh

Nota: * Potong yang tidak berkenaan

UPVC PIPE & FITTING SYSTEM CATALOGUE



SAE

SOUTH ASIA EXACT

Flow with Confidence

Since 1982

SOUTH ASIA EXACT

SOUTH ASIA EXACT

South Asia Exact (SAE), with over 20 years of experience supplying high quality pipes and fittings specifically for water supply and soil, waste and ventilation (S.W.V.), is one of the leading brand in Malaysia.

SAE pipes and fittings are manufactured at Tasek Industrial Estate, Perak and Balakong, Selangor respectively. We have 2 distinctive brands namely SA for pipes and EXACT for fittings in order to facilitate the learning of the instrinsic quality of SAE products. Through the years, the company has been actively upgrading its technology and production machineries to achieve its objective of improving efficiency, together with product superiority in order to win total customers' confidence and satisfaction.

SAE products are manufactured with stringent quality control. Our effort to continuously improve on quality and reliability over the years has been rewarded with the accreditation of ISO 9001 certification. Our products are also certified to the relevant Malaysia and British standards by SIRIM, the Malaysian standards authority. Along with Ikram and SPAN approval,
Malaysian local authorities have approved the use of SAE products in projects under their jurisdiction.

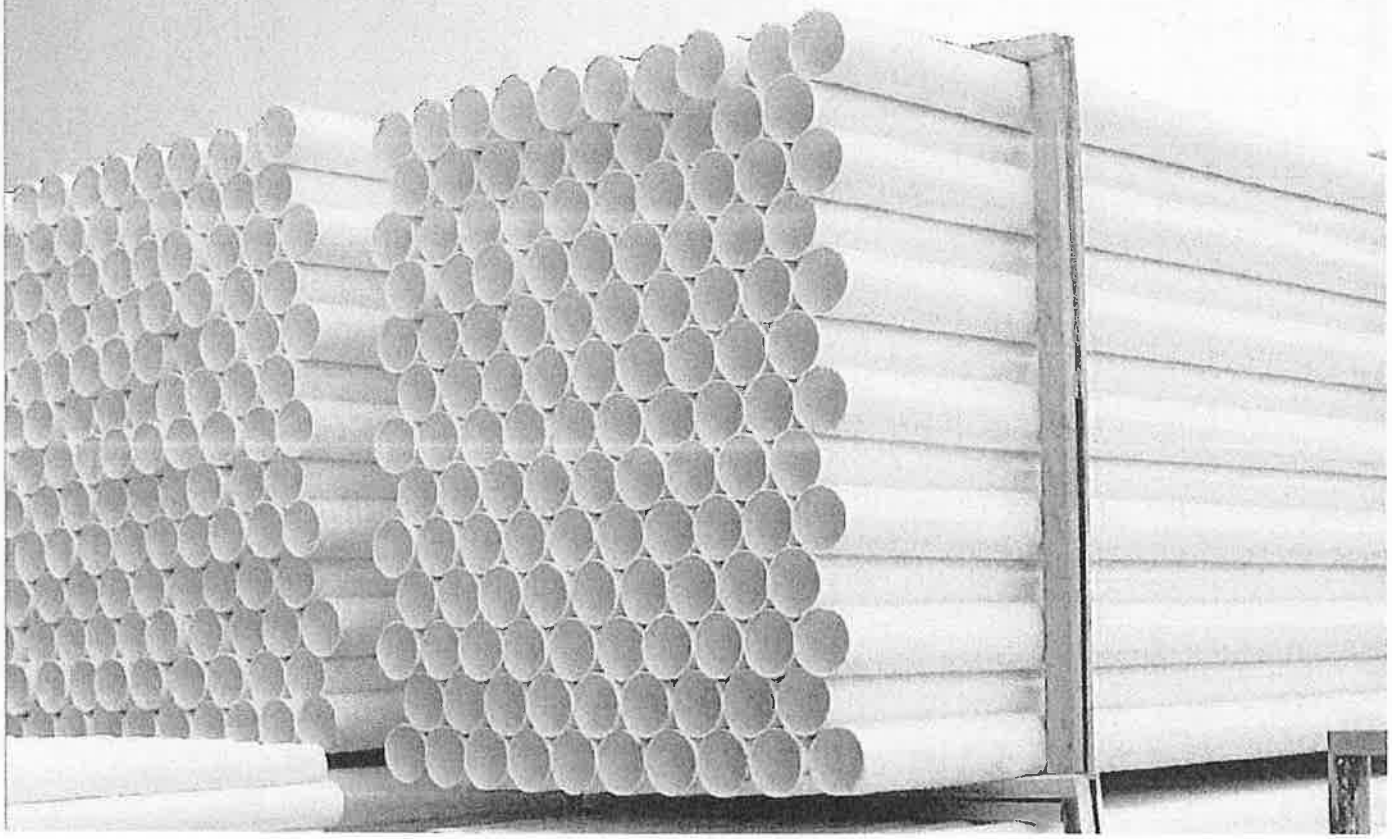
SAE has contributed significantly towards national development over the years. The combined experience and resources of 2 major pipes and fittings manufacturers bring to the market warranty for your S.W.V. and pressure system for all your building and construction needs.

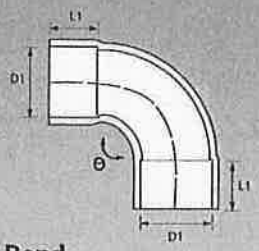
SPECIFICATIONS OF SOIL,WASTE AND VENT (S.W.V)PIPES



Colour : White
Length : 4m or 5.8m
Type of Joint : Solvent Cement Weld Joint

Nominal Size		Outside Diameter		Wall Thickness (MS 1063)			
				'B'		'BD'	
Size		Min	Max	Min	Max	Min	Max
(inches)	(mm)	(mm)		(mm)		(mm)	
1¼	36	36.20	36.50	3.0	3.5	-	-
1½	43	42.80	43.10	3.0	3.5	-	-
2	56	55.80	56.10	3.0	3.5	-	-
3	82	82.40	82.80	3.0	3.5	-	-
4	110	110.00	110.30	3.2	3.8	3.2 *	3.8 *
6	160	160.00	160.40	3.2	3.8	4.0 *	4.6 *
8	200	200.00	200.50	3.9	4.5	4.9 *	5.6 *
10	250	250.00	250.50	-	-	6.2	7.1
12	315	315.00	315.60	-	-	7.7	8.7

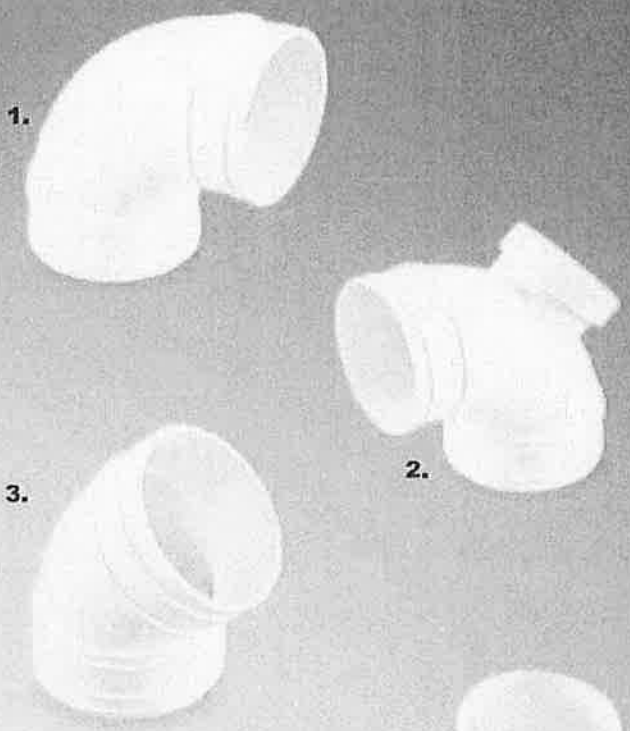




1. Sweep Bend

DIMENSION (mm)				
Code No.	Size (mm)	Angle θ	D1	L1
B10-36-88	36	91.25	36.3	20
B10-43-88	43	91.25	42.9	25
B10-56-88	56	91.25	55.9	28
B70-82-92	82	92.5	82.6	45
B70-110-92	110	92.5	110.2	50
B10-160-92	160	92.5	160.4	78
B10-200-92	200	92.5	200.5	80

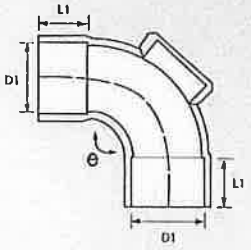
*. To solvent weld to pipe or fitting.



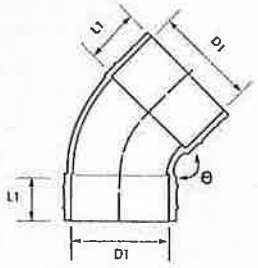
2. Sweep Bend with I/O

DIMENSION (mm)				
Code No.	Size (mm)	Angle θ	D1	L1
B20-43-88	43	91.25	42.9	21.5
B20-56-88	56	91.25	55.9	28
B20-82-92	82	92.5	82.6	45
B80-110-92	110	92.5	110.2	50
B20-160-92	160	92.5	160.4	78
B20-200-92	200	92.5	200.5	80

*. To solvent weld to soil pipe or fitting fitted with inspection opening.



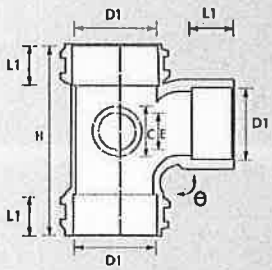




3. 45° Bend Plain

DIMENSION (mm)				
Code No.	Size (mm)	Angle θ	D1	L1
C10-36-45	36	45	36.3	24
C10-43-45	43	45	42.9	25
C10-56-45	56	45	55.9	28
C10-82-135	82	45	82.6	45
C10-110-135	110	45	110.2	50
C10-160-135	160	45	160.4	78
C10-200-135	200	45	200.5	80

*. To solvent weld to soil pipe.



4. Equal Single Branch

DIMENSION (mm)							
Code No.	Size (mm)	Angle θ	D1	L1	H	C	E
E10-36-88	36	91.25	36.3	24	89	-	-
E10-43-88	43	91.25	42.9	25	109	-	-
E10-56-88	56	91.25	55.9	28	135	-	-
E10-82-92	82	92.5	82.6	45	205	-	42.9
E10-110-92	110	92.5	110.2	50	250	-	55.9
E10-160-92	160	92.5	160.4	75	350.5	82.6	55.9
E10-200-92	200	90	200.5	80	404	82.6	55.9

*. To solvent weld to soil pipe.
*. 92° branches have integrally moulded boss adaptor socket to accept waste pipe or fitting.

No Lesen : **PS025301**
Licence No :

LESEN PENSIJILAN BARANGAN
Product Certification Licence

SIRIM

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SOUTH ASIA FIBRE INDUSTRIES SDN. BHD.
NO. 62 & 68, JALAN PORTLAND
KAWASAN PERINDUSTRIAN TASEK
31400 IPOH
PERAK, MALAYSIA

Lesen untuk menggunakan Tanda Pensijilan di atas barangan
a licence to use the Certification Mark on

UNPLASTICIZED POLYVINYL CHLORIDE (PVC-U) PIPES FOR SOIL AND WASTE DISCHARGE (LOW AND HIGH TEMPERATURE) WITHIN THE BUILDING STRUCTURE

Please refer to detail in the SCHEDULE

sebagai mematuhi keperluan
as complying with
MS 1063 : 2002

Mohd Azanuddin bin Salleh
Ketua Pegawai Eksekutif
Chief Executive Officer
SIRIM QAS International Sdn. Bhd.

SIRIM QAS International Sdn. Bhd.
(No Syarikat 410334-X)
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MALAYSIA

Tel 60-3-55448400
Faks 60-3-55448486

http://www.sirim.my
http://www.malaysiancertified.com.my

Tarikh Mula Pensijilan *Certified Since*	**: 03 December 1999**	**Tarikh Dikeluarkan** *Issue Date*	**: 18 October 2019**
Sah Sehingga *Valid Until*	**: 03 December 2020**	**No Siri** *Serial No*	**: 050072**

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No Lesen : **PS025301**
Licence No :

SCHEDULE

SOUTH ASIA FIBRE INDUSTRIES SDN. BHD.

SIRIM

Trade Mark : SOUTH ASIA
Model : APPLICATION AREA CODE: B
Size : NOMINAL SIZE (mm): 36, 43, 56, 82, 110, 160 AND 200

Trade Mark : SOUTH ASIA
Model : APPLICATION AREA CODE: BD
Size : NOMINAL SIZE (mm): 82, 110, 160, 200, 250 AND 315

End of page

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(No Syarikat 410334-X)
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40700 Shah Alam
Selangor Darul Ehsan
MALAYSIA

Tel 60-3-55446400
Faks : 60-3-55446466

http://www.sirim.my
http://www.malaysiancertified.com.my

Tarikh Mula Pensijilan : 03 December 1999
Certified Since

Sah Sehingga : 03 December 2020
Valid Until

Tarikh Dikeluarkan : 18 October 2019
Issue Date

No Siri : 050072
Serial No

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KAWASAN PERINDUSTRIAN TASEK
31400 IPOH
PERAK, MALAYSIA

Lesen untuk menggunakan Tanda Pensijilan di atas barangan
a licence to use the Certification Mark on

UNPLASTICIZED POLYVINYL CHLORIDE (PVC-U) PIPES FOR NON - PRESSURE UNDERGROUND DRAINAGE AND SEWERAGE

Please refer to detail in the SCHEDULE

sebagai mematuhi keperluan
as complying with
MS 979 : PART 1 : 1985

Mohd Azanuddin bin Salleh
Ketua Pegawai Eksekutif
Chief Executive Officer
SIRIM QAS International Sdn. Bhd.

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MALAYSIA

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Faks : 60-3-55446466

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http://www.malaysiancertified.com.my

Tarikh Mula Pensijilan *Certified Since*	**: 03 March 2006**	**Tarikh Dikeluarkan** *Issue Date*	**: 24 January 2020**
Sah Sehingga *Valid Until*	**: 03 March 2021**	**No Siri** *Serial No*	: 052471

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No Lesen : **PS025304**
Licence No :

SCHEDULE

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SIRIM

Trade Mark : SA
Model : PLAIN-END PIPES
Size : NOMINAL DIAMETER : 100mm AND 155mm

End of page

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Faks : 60-3-55446466

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http://www.malaysiancertified.com.my

Tarikh Mula Pensijilan *Certified Since*	**: 03 March 2006**	**Tarikh Dikeluarkan** *Issue Date*	**: 24 January 2020**
Sah Sehingga *Valid Until*	**: 03 March 2021**	**No Siri** *Serial No*	: 052471

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No Lesen : **PC003595**
Licence No :

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UNPLASTICIZED POLYVINYL CHLORIDE (PVC-U) PIPES FOR NON - PRESSURE UNDERGROUND DRAINAGE AND SEWERAGE

Please refer to detail in the SCHEDULE

sebagai mematuhi keperluan
as complying with
MS 979 : PART 2 : 1985

Mohd Azanuddin bin Salleh
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Chief Executive Officer
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Tarikh Mula Pensijilan *Certified Since*	**: 13 April 2018**	**Tarikh Dikeluarkan** *Issue Date*	**: 10 March 2020**
Sah Sehingga *Valid Until*	**: 13 April 2021**	**No Siri** *Serial No*	: 053690

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No Lesen : **PC003595**
Licence No :

SCHEDULE

SOUTH ASIA FIBRE INDUSTRIES SDN. BHD.

SIRIM

Trade Mark : SOUTH ASIA EXACT
Rating : SDR 41
Type : PLAIN END PIPES
Size : NOMINAL SIZE (mm): 200, 250, 315

End of page

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Faks : 60-3-55446466

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Tarikh Mula Pensijilan *Certified Since*	**: 13 April 2018**	**Tarikh Dikeluarkan** *Issue Date*	**: 10 March 2020**
Sah Sehingga *Valid Until*	**: 13 April 2021**	**No Siri** *Serial No*	: 053690

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43300 BALAKONG
SELANGOR, MALAYSIA

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UNPLASTICIZED POLYVINYL CHLORIDE (PVC-U) FITTINGS FOR SOIL AND WASTE DISCHARGE (LOW AND HIGH TEMPERATURE) WITHIN THE BUILDING STRUCTURE

Please refer to detail in the SCHEDULE

sebagai mematuhi keperluan
as complying with
MS 1063 : 2002

Mohd Azanuddin bin Salleh
Ketua Pegawai Eksekutif
Chief Executive Officer
SIRIM QAS International Sdn. Bhd.

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Tel : 60-3-55446400
Faks : 60-3-55440460

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http://www.malaysiancertified.com.my

Tarikh Mula Pensijilan *Certified Since*	: 21 January 2011	Tarikh Dikeluarkan *Issue Date*	: 03 June 2020
Sah Sehingga *Valid Until*	: 07 April 2021	No Siri *Serial No*	: 055237

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No Lesen : **PA060501**
Licence No :

SCHEDULE

SIRIM

ANSON EXACT CORPORATION (M) SDN. BHD.

Trade Mark : EXACT
Model : UNDERGROUND EQUAL SINGLE BRANCH
Type : APPLICATION AREA CODE : D
Size : NOMINAL SIZE (mm) : 160 X 110

Trade Mark : EXACT
Model : TEE WITH INSPECTION OPENING
Type : APPLICATION AREA CODE :B
Size : NOMINAL SIZE (mm) :160 X 110

Trade Mark : EXACT
Model : 45° UNDERGROUND BEND
Type : APPLICATION AREA CODE : D
Size : NOMINAL SIZE (mm) : 200

Trade Mark : EXACT
Model : UNDERGROUND STRAIGHT COUPLING
Type : APPLICATION AREA CODE : D
Size : NOMINAL SIZE (mm) : 110 & 200

Trade Mark : EXACT
Model : UNDERGROUND SWEPT BEND
Type : APPLICATION AREA CODE : D
Size : NOMINAL SIZE (mm) : 110

Trade Mark : EXACT
Model : EQUAL SINGLE BRANCH WITH INSPECTION OPENING
Type : APPLICATION AREA CODE :B
Size : NOMINAL SIZE (mm) : 82

Trade Mark : EXACT
Model : SWEEP BEND
Type : APPLICATION AREA CODE :B
Size : NOMINAL SIZE (mm): 36, 43, 56, 82, 110 & 160

Trade Mark : EXACT
Model : SWEEP BEND WITH INSPECTION OPENING
Type : APPLICATION AREA CODE :B
Size : NOMINAL SIZE (mm) : 56, 110 & 160

Trade Mark : EXACT
Model : EQUAL SINGLE BRANCH
Type : APPLICATION AREA CODE :B
Size : NOMINAL SIZE (mm) : 36, 43, 56, 82, 110 & 160

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Tarikh Mula Pensijilan : 21 January 2011
Certified Since

Sah Sehingga : 07 April 2021
Valid Until

Tarikh Dikeluarkan : 03 June 2020
Issue Date

No Siri : 055237
Serial No

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Licence No :

SCHEDULE

ANSON EXACT CORPORATION (M) SDN. BHD.

SIRIM

Trade Mark : EXACT
Model : 45° BEND PLAIN
Type : APPLICATION AREA CODE :B
Size : NOMINAL SIZE (mm): 36, 43, 56, 82 & 200

Trade Mark : EXACT
Model : TEE
Type : APPLICATION AREA CODE : B
Size : NOMINAL SIZE (mm) :160 X 110

Trade Mark : EXACT
Model : STRAIGHT COUPLING
Type : APPLICATION AREA CODE :B
Size : NOMINAL SIZE (mm):56, 82, 110, 160 & 200

Trade Mark : EXACT
Model : REDUCING BUSH
Type : APPLICATION AREA CODE :B
Size : NOMINAL SIZE (mm) :110 X 82

Trade Mark : EXACT
Model : REDUCING SOCKET
Type : APPLICATION AREA CODE :B
Size : NOMINAL SIZE (mm) :160 X 110

Trade Mark : EXACT
Model : BOSS CONNECTOR (BRACKET)
Type : APPLICATION AREA CODE :B
Size : NOMINAL SIZE (mm):82 X 56, 110 X 56, 160 X 110 & 160 X 82

Trade Mark : EXACT
Model : 135° SWEEP BEND
Type : APPLICABLE AREA CODE : B
Size : NOMINAL SIZE (mm) : 110

Trade Mark : EXACT
Model : SWEEP BEND
Type : APPLICATION AREA CODE :BD
Size : NOMINAL SIZE (mm) : 82, 110 & 160

Trade Mark : EXACT
Model : SWEEP BEND WITH INSPECTION OPENING
Type : APPLICATION AREA CODE :BD
Size : NOMINAL SIZE (mm): 110 & 160

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Tel : 60-3-55446400
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Sah Sehingga : 07 April 2021
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SIRIM

Trade Mark : EXACT
Model : EQUAL SINGLE BRANCH
Type : APPLICATION AREA CODE :BD
Size : NOMINAL SIZE (mm): 82, 110 & 160

Trade Mark : EXACT
Model : EQUAL SINGLE BRANCH WITH INSPECTION OPENING
Type : APPLICATION AREA CODE :BD
Size : NOMINAL SIZE (mm): 82

Trade Mark : EXACT
Model : SWEEP BEND 45°
Type : APPLICATION AREA CODE :BD
Size : NOMINAL SIZE (mm): 82 & 200

Trade Mark : EXACT
Model : STRAIGHT COUPLING
Type : APPLICATION AREA CODE :BD
Size : NOMINAL SIZE (mm) : 82, 110, 160 & 200

Trade Mark : EXACT
Model : REDUCING BUSH
Type : APPLICATION AREA CODE :BD
Size : NOMINAL SIZE (mm) :110 X 82

Trade Mark : EXACT
Model : REDUCING SOCKET
Type : APPLICATION AREA CODE :BD
Size : NOMINAL SIZE (mm): 110 X 160

Trade Mark : EXACT
Model : BOSS CONNECTOR (BRACKET)
Type : APPLICATION AREA CODE :BD
Size : NOMINAL SIZE (mm):82 X 56, 110 X 56, 160 X 110 & 160 X 82

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Faks : 60-3-55446466

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Sah Sehingga : 07 April 2021
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Licence No :

SCHEDULE

ANSON EXACT CORPORATION (M) SDN. BHD.

SIRIM

Trade Mark : EXACT
Model : PIPE SLEEVE
Type : APPLICATION AREA CODE :BD
Size : NOMINAL SIZE (mm) : 56, 82, 110, 160 & 200

Factory Name and Location :
EXPRESS AUDIO INDUSTRY SDN. BHD.
LOT 19089, JALAN TANMING JAYA 1
TAMAN TANMING JAYA
43300 BALAKONG
SELANGOR, MALAYSIA

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Tarikh Mula Pensijilan : 21 January 2011
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Sah Sehingga : 07 April 2021
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