#### **REKAPITULASI**

Pekerjaan : Pengadaan dan Pemasangan Jaringan Pipa Distribusi Utama Boster Peramuan

Lokasi : Jl. Peramuan - Lianganggang - Jl.Soebardjo

Kabupaten : Banjarbaru

Provinsi : Kalimantan Selatan

TA. : 2024

			HARGA		
NO	URAIAN PEKERJAAN	( Rp )			
1	2		3		
I	PEKERJAN PERSIAPAN	Rp	21,160,620.20		
ll l	BIAYA PENERAPAN SMKK	Rp	52,363,000.00		
III	PEKERJAN PENGADAAN DAN PEMASANGAN PIPA HDPE DAN ASESORIES	Rp	26,030,730,387.69		
IV	PEKERJAAN CROSSING	Rp	534,750,000.00		
٧	PEKERJAAN PEMASANGAN POMPA & PANEL	Rp	1,464,525,425.10		
VI	PEKERJAAN JEMBATAN PIPA DAN STREETBOX	Rp	729,000,000.00		
VII	PEKERJAAN LAIN-LAIN	Rp	5,001,594,575.95		
	JUMLAH		33,834,124,008.93		
	PPN 11 %		3,721,753,640.98		
	Total		37,555,877,649.91		
	PEMBULATAN		37,555,877,000.00		

Terbilang: Tiga Puluh Tujuh Milyar Lima Ratus Lima Puluh Lima Juta Delapan Ratus Tujuh Puluh Tujuh Ribu Rupiah

#### **RENCANA ANGGARAN BIAYA**

 Pengadaan dan Pemasangan Jaringan Pipa Distribusi Utama Boster Peramuan
 Jl. Peramuan - Lianganggang - Jl.Soebardjo
 Banjarbaru Pekerjaan

Lokasi

Kabupaten

: Kalimantan Selatan : 2024 Provinsi

TA.

NO	URAIAN PEKERJAAN	NO. ANALISA	VOLUME	SAT	HARGA SATUAN		JUMLAH HARGA
1	2	3	4	5	6		7
ı	PEKERJAN PERSIAPAN						
1	Pengukuran Ulang	A.1b	9,000.00	m'	795.62	Rp	7,160,620.20
2	Direksi Keet (Sewa Bangunan)		1.00	Ls	5,000,000.00	Rp	5,000,000.00
3	Laporan dan dokumentasi		1.00	Ls	4,500,000.00	Rp	4,500,000.00
4	As built drawing		1.00	Ls	4,500,000.00	Rp	4,500,000.00
					Sub Total I	Rp	21,160,620.20
П	BIAYA PENERAPAN SMKK	Lampiran 01	1.00	Ls	52,363,000.00	Rp	52,363,000.00
		20	1.00				
					Sub Total II	кр	52,363,000.00
III	PEKERJAN PENGADAAN DAN PEMASANGAN PIPA HDPE DAN ASESORIES						
III.1	Pekerjaan Galian Pipa						
III.1.1	Pekerjaan Bongkaran Beton	A.1h	7.50	m³	397,588.35	Rp	2,981,912.63
III.1.2	Pekerjaan Pembongkaran aspal	D.1a	8.00	m³	1,027,371.57	Rp	8,218,972.54
						D.a.	11 200 005 10
						Rp	11,200,885.16
III.2	Pekerjaan Pengembalian						
III.2.1	Pekerjaan Pengecoran Beton ( Beton K-175 )	B.4c	5.99	m³	1,691,537.26	Rp	10,128,079.32
III.2.3	Pekerjaan Aspal Laston Lapis Aus (AC-WC) tebal 4 cm	D.2b	8.00	m³	4,382,091.33	Rp	35,056,730.60
						Rp	45,184,809.92
III.3	PERPIPAAN						
III.3.1	Pengadaan Pipa						
III.3.1.1	Pipa HDPE S-10 PN-8 Dia. 400 mm	HS	9,000.00	m'	2,332,018.63	Rp	20,988,167,687.94
111.5.1.1	1 1pa 1151 E 3-10 1 N-0 51a. 400 111111	113	3,000.00		2,332,010.03	Rp	20,988,167,687.94
III.3.2	Pemasangan Pipa					ιτρ	20,500,107,007.54
III.3.2.1	Pipa HDPE S-10 PN-8 Dia. 400 mm	F.1k	9,000.00	m'	411,877.72	Rn	3,706,899,488.65
111.5.2.1	1 190 1101 E 3 20 1 14 0 01d. 400 11111	1.28	3,000.00		411,077.72	Rp	3,706,899,488.65
III.4	ASESORIES						
III.4.1	Pengadaan dan Pemasangan						
III.4.1.1	Stub Flange HDPE 400 mm	HS	23.00	bh	8,179,295.05		188,123,786.12
III.4.1.2	Moer Baut M.20 x 100 mm	HS	384.00	bh	30,178.37	Rp	11,588,493.50
III.4.1.3	Packing Karet 400 mm	HS	34.00	bh	122,854.44		4,177,050.85
III.4.1.4	All Flange Bend DCI 400 x 90°	HS	7.00	bh	46,177,279.66	_	323,240,957.61
III.4.1.5	Tee All Flange DCI 400 mm Flange Steel 400 mm	HS	2.00	bh	38,431,574.77	Rp	76,863,149.54
III.4.1.6 III.4.1.7	Water Meter (Elektromagnetic) 400 mm	HS HS	9.00 1.00	bh bh	4,021,531.11	Rp	36,193,779.97
III.4.1.7 III.4.1.8		HS	1.00	bh	195,118,343.75 61,289,161.29	_	195,118,343.75
III.4.1.8 III.4.1.9	Dismantling Joint 400 mm  Gate Valve 400 mm	HS	4.00	bh		Rp	61,289,161.29 245,156,645.17
III.4.1.10	Pipa GI Medium 400 mm	HS	10.00	bh	4,490,708.89	Rp	44,907,088.89
III.4.1.11	All Flange Bend DCI 400 x 45°	HS	2.00	bh	46,177,279.66		92,354,559.32
	Street Box	HS	1.00	bh	264,500.00	_	264,500.00
						Rp	1,279,277,516.01
					Colo Total III		
					Sub Total III	κþ	26,030,730,387.69
IV 1	PEKERJAAN CROSSING	110	02.00		F 750 000	Dur	F24 750 000 00
1	Pekerjaan HDD dia. 16" (400 mm)	HS	93.00	m	5,750,000	кр	534,750,000.00
					Sub Total IV	Rp	534,750,000.00
V	PEKERJAAN PEMASANGAN POMPA & PANEL						
V.1	Pengadaan						
	Pompa Centrifugal Short Couple (Q:100 l/s, H:70 m)	HS		bh	300,000,000	_	600,000,000.00
	Panel VSD 135 Kw (1 Set)	HS		set	170,000,000		340,000,000.00
V.1.1 V.1.2	In: CLAS I: I: ACT (ACC. )	HS		m'	4,490,709	_	89,814,177.79
V.1.2 V.1.3	Pipa GI Medium dia. 16" (400 mm)			m'	2,993,083	<u> </u>	17,958,496.18
V.1.2 V.1.3 V.1.4	Pipa GI Medium dia. 10" (250 mm)	HS					
V.1.2 V.1.3 V.1.4 V.1.5	Pipa GI Medium dia. 10" (250 mm) Pipa GI Medium dia. 2" (63 mm)	HS	0.3	m'	361,795		<u> </u>
V.1.2 V.1.3 V.1.4 V.1.5 V.1.6	Pipa GI Medium dia. 10" (250 mm) Pipa GI Medium dia. 2" (63 mm) Pipa GI Medium dia. 1/2" (15 mm)	HS HS	0.3	m' m'	87,330	Rp	87,329.89
V.1.2 V.1.3 V.1.4 V.1.5 V.1.6 V.1.7	Pipa GI Medium dia. 10" (250 mm) Pipa GI Medium dia. 2" (63 mm) Pipa GI Medium dia. 1/2" (15 mm) Flange Steel 16" (400 mm)	HS HS HS	0.3 1 2	m' m' bh	87,330 4,021,531	Rp Rp	87,329.89 8,043,062.22
V.1.2 V.1.3 V.1.4 V.1.5 V.1.6 V.1.7 V.1.8	Pipa GI Medium dia. 10" (250 mm) Pipa GI Medium dia. 2" (63 mm) Pipa GI Medium dia. 1/2" (15 mm) Flange Steel 16" (400 mm) Flange Steel 10" (250 mm)	HS HS HS	0.3 1 2 8	m' m' bh bh	87,330 4,021,531 2,112,151	Rp Rp Rp	87,329.89 8,043,062.22 16,897,210.24
V.1.2 V.1.3 V.1.4 V.1.5 V.1.6 V.1.7 V.1.8 V.1.9	Pipa GI Medium dia. 10" (250 mm) Pipa GI Medium dia. 2" (63 mm) Pipa GI Medium dia. 1/2" (15 mm) Flange Steel 16" (400 mm) Flange Steel 10" (250 mm) Flange Steel 2" (63 mm)	HS HS HS	0.3 1 2 8	m' m' bh bh	87,330 4,021,531 2,112,151 262,709	Rp Rp Rp Rp	87,329.89 8,043,062.22 16,897,210.24 525,418.43
V.1.2	Pipa GI Medium dia. 10" (250 mm) Pipa GI Medium dia. 2" (63 mm) Pipa GI Medium dia. 1/2" (15 mm) Flange Steel 16" (400 mm) Flange Steel 10" (250 mm)	HS HS HS	0.3 1 2 8 2 2	m' m' bh bh	87,330 4,021,531 2,112,151	Rp Rp Rp Rp Rp	108,538.57 87,329.89 8,043,062.22 16,897,210.24 525,418.43 38,843,018.93 3,683,536.15

NO	URAIAN PEKERJAAN	NO. ANALISA	VOLUME	SAT	HARGA SATUAN		JUMLAH HARGA
1	2	3	4	5	6		7
V.1.12	Gate Valve 10" (250 mm)	HS	2	bh	18,706,150	Rp	37,412,300.94
V.1.13	Gate Valve 16" (400 mm)	HS	2	bh	63,611,267	Rp	127,222,533.84
V.1.14	Combination Air Valve 2" (63 mm)	HS	1	bh	30,107,361	Rp	30,107,360.57
V.1.15	Wafer Check Valve 250 mm	HS	2	bh	12,515,147		25,030,293.87
V.1.16	Flexible Rubber Joint 400 mm	HS		bh	16,767,301		33,534,602.49
V.1.17	Flexible Rubber joint 250 mm	HS	2	bh	13,896,473	Rp	27,792,945.98
V.1.18	Concentric Reducer DCI All Flange 250 x 160 mm	HS		bh	4,622,450		9,244,899.10
V.1.19	Excentric Reducer DCI All Flange 400 x 200 mm	HS		bh	8,012,246		16,024,491.77
V.1.20	Flange Blank 400 mm	HS		bh	4,587,763		4,587,762.69
V.1.21	Rubber Packing 400 mm	HS		bh	122,854		982,835.50
V.1.22	Rubber Packing 250 mm	HS		bh	89,778	Rp	897,782.42
	Rubber Packing 200 mm	HS		bh	75,603		151,205.46
V.1.24	Rubber Packing 160 mm	HS		bh	66,152		132,304.78
V.1.25	Rubber Packing 63 mm	HS		bh	42,527		85,053.07
V.1.26	Moer Baut M.20 x 100 mm	HS	240		30,178		7,242,808.44
V.1.27	Moer Baut M.16 x 100 mm	HS		bh	23,078		1,107,723.64
V.1.28	Shock GI 15 mm	HS		bh	7,749		7,749.28
V.1.29	Double Nipple 15 mm	HS		bh	10,272		20,544.22
V.1.30	Knee GI 15 mm	HS		bh	11,216	Rp	11,215.98
V.1.31	Brass Gate Valve 15 mm	HS		bh	132,400		132,400.20
V.1.32	Manometer 10 bar	HS	1	bh	835,822	Rp	835,822.46
	Upah Perakitan & Commisioning						
V.2.1	Upah Perakitan Pipa & aksesoris Pipa Header & Pompa			ls	15,000,000		15,000,000.00
V.2.2	Upah Perakitan Pompa & Panel			ls	8,000,000	Rp	8,000,000.00
V.2.3	Commisioning		1	ls	3,000,000	Rp	3,000,000.00
				1	Sub Total V	Rp	1,464,525,425.10
VI	PEKERJAAN JEMBATAN PIPA DAN STREETBOX						
1	Pekerjaan Sipil Streetbox	Lampiran 03	4.00	Unit	1,000,000.00	Rp	4,000,000.00
2	Pekerjaan Sipil Chamber Water Meter	Lampiran 04	1.00	Unit	25,000,000.00	Rp	25,000,000.00
3	Pekerjaan Jembatan Pipa 1	Lampiran 05	1.00	Unit	350,000,000.00		350,000,000.00
4	Pekerjaan Jembatan Pipa 2	Lampiran 06	1.00	Unit	350,000,000.00	Rp	350,000,000.00
				•	Sub Total VI	Rр	729,000,000.00
VII	PEKERJAAN LAIN-LAIN						
1	Pekerjaan Interkoneksi dengan Pipa Eksisting (Dia. 400 mm)	F.3i	1.00	titik	1,594,575.95	Rp	1,594,575.95
2	Pekerjaan Pengadaan dan Pemasangan Sambung Langganan		2000	titik	2,500,000		5,000,000,000.00
	5 5 5 5				, , , , , ,	Ė	
					Sub Total VII	Rp	5,001,594,575.95

JUMLAH	Rp	33,834,124,008.93
PPN 11%	Rp	3,721,753,640.98
TOTAL	Rp	37,555,877,649.91
PEMBULATAN	Rp	37.555.877.000.00

#### A. PEKERJAAN PERSIAPAN

A.1b 1m' Pengukuran Trase Pipa

No	Uraian	Kode	Satuan	Koefisien	Harga Satuan (Rp)	Jumlah Harga (Rp)	TKDN	Jumlah Biaya TKDN
1	2	3	4	5	6	7	8	9
Α	TENAGA							
	Pembantu juru Ukur		ОН	0.004	144,898.94	580	100.00%	580
	Juru Ukur		ОН	0.0004	179,946.25	72	100.00%	72
				JUMLAH TEN	AGA KERJA	652		
В	BAHAN							
				JUMLAH HAF	RGA BAHAN			
С	PERALATAN							
	Meter roll 100 m		Sewa-hari	0.004	23,000.00	92	100.00%	92
				JUMLAH HAF	RGA ALAT	92		
D	Jumlah (A+B+C)					744		
E	Overhead & Profit (7 %)			15% x D (maksimum)		52		
F	Harga Satuan Pekerjaan (D+E)					796	100.00%	744

A.1h	1 m3 Pembongkaran 1 m3 beton	secara kon	ventional					
					Harga	Jumlah		
No	Uraian	Kode	Satuan	Koefisien	Satuan	Harga	TKDN	Jumlah Biaya TKDN
					(Rp)	(Rp)		
1	2	3	4	5	6	7		
Α	TENAGA			2.500			400 000	
	Pekerja		OH	3.600	144,898.94	521,636	100.00%	521,636
	Mandor		OH	0.36	204,889.75	73,760	100.00%	73,760
			0	JUMLAH TEN	AGA KERJA	595,397		
В	BAHAN		1				400.000	
	Cuka bibit		liter	1.2	42,000.00	50,400	100.00%	50,400
	25244744			JUMLAH HAR	IGA BAHAN	50,400		
С	PERALATAN		ļ.,	0.00	22.222.22	150	100 000/	400
	Godam/palu		bh	0.02	23,000.00	460	100.00%	460
	Gergaji besi		bh	0.1	23,000.00	2,300	100.00%	2,300
	Pahat beton		bh	0.03	23,000.00	690	100.00%	690
	Linggis		bh	0.05	23,000.00	1,150	100.00%	1,150
			+	JUMLAH HAR	IGA ALAT	4,600		
D	Jumlah (A+B+C)		1	<u> </u>		650,397		
<u>E</u>	Overhead & Profit (7 %)			15% x D (mak	csimum)	45,528	400.000/	650 207
F	Harga Satuan Pekerjaan (D+E)					695,924	100.00%	650,397
	4 2 Barrela andreas a batan dan a	! ! . !						
A.1i	1 m3 Pembongkaran beton deng	an jack nan	nmer		Haves	tlab		
	ll-star.	W - d -	6-4	w 61-1	Harga	Jumlah	TKDN	Inmish Bione TVDN
No	Uraian	Kode	Satuan	Koefisien	Satuan	Harga	IKDN	Jumlah Biaya TKDN
4	2	2	4	-	(Rp)	(Rp)		
1	2	3	4	5	6	7		
Α	TENAGA		011	1 200	144.000.04	472.070	100.00%	470.070
	Pekerja		ОН	1.200 0.12	144,898.94	173,879	100.00%	173,879 24,587
	Mandor		UH	-	204,889.75	24,587	100.00%	24,367
	DALLAN		+	JUMLAH TEN	AGA KERJA	198,466		
В	BAHAN		lia	2.5	16 100 00	40.350	F7 F00/	00.470
	BBM non subsidi		liter	2.5	16,100.00	40,250	57.58%	23,176
•	DEDALATAN			JUMLAH HAR	IGA BAHAN	40,250		
С	PERALATAN			0.05	524 440 50	122.002	75.00%	00.047
	Jack hammer		sewa-hari	0.25	531,449.59	132,862	/3.00%	99,647
	Lucial de (A - B - C)		+	JUMLAH HAR	IGA ALAT	132,862		
D	Jumlah (A+B+C)		+	450/ D /	!\	371,578		
E F	Overhead & Profit (7 %)		+	15% x D (mak	(Simum)	26,010	86.47%	221 200
<u> </u>	Harga Satuan Pekerjaan (D+E)					397,588	00.47/0	321,288
A.1j	1 m3 Pembongkaran pasangan b	atu dan ner	nharcihan ha	tu (manual)				
A.1.j	1 m3 i embongkaran pasangan b	l dan per	TIDETSITIATI DE		Harga	Jumlah		
No	Uraian	Kode	Satuan	Koefisien	Satuan	Harga	TKDN	Jumlah Biaya TKDN
140	Graidir	Rouc	Jatuan	Rochsien	(Rp)	(Rp)		Januari 214 ya 111211
1	2	3	4	5	6	7		
A	TENAGA		7	1		,		
	Pekerja		ОН	1.400	144,898.94	202,859	100.00%	202,859
	Mandor		ОН	0.14	204,889.75	28,685	100.00%	28,685
	Ivianuoi		011	JUMLAH TEN	·	231,543	100.0070	20,000
В	BAHAN			JOIVILAITTEIN	AOA KEIGA	231,343		
D	PALIAN	1		JUMLAH HAR	GA BAHAN			
С	PERALATAN		1	JUIVILAN NAK	IOA DARIAN	-		
·	FEMALATAN		1	JUMLAH HAR	IGA ALAT			
-	lumlah (A+B+C)	1	1	JUIVILAH HAK	IGA ALAT	221 542		
D	Jumlah (A+B+C)  Overhead & Profit (7 %)	1	1	1E0/ y D /	(cimum)	231,543		
E		1	1	15% x D (mak	(SIIIIUIII)	16,208	100.00%	231,543
F	Harga Satuan Pekerjaan (D+E)	1	1	1		247,751	100.00%	231,543

A.1k 1 m3 Pembongkaran pasangan batu dengan jack hammer

No	Uraian	Kode	Satuan	Koefisien	Harga Satuan	Jumlah Harga	TKDN	Jumlah Biaya TKDN
	Gradan	Roue	Sutuan	Rochisten	(Rp)	(Rp)		Junium 214 ya 111211
1	2	3	4	5	6	7		
Α	TENAGA							
	Pekerja		ОН	0.600	144,898.94	86,939	100.00%	86,939
	Mandor		ОН	0.06	204,889.75	12,293	100.00%	12,293
				JUMLAH TEN	IAGA KERJA	99,233		
В	BAHAN							
	BBM non subsidi		liter	2.5	16,100.00	40,250	57.58%	23,176
				JUMLAH HAF	RGA BAHAN	40,250		
С	PERALATAN							
	Jack hammer		sewa-hari	0.25	531,449.59	132,862		
				JUMLAH HAF	RGA ALAT	132,862		
D	Jumlah (A+B+C)					272,345		
E	Overhead & Profit (7 %)			15% x D (ma	ksimum)	19,064		
F	Harga Satuan Pekerjaan (D+E)					291,409	44.95%	122,409

#### B PEKERJAAN TANAH

#### B.1 PERMUKAAN TANAH

B.1b 1 m2 tebas tebang berupa memotong dan membersihkan lokasi dari tanaman/tumbuhan Ø<15 cm

No	Uraian	Kode	Satuan	Koefisien	Harga Satuan (Rp)	Jumlah Harga (Rp)	TKDN	Jumlah Biaya TKDN
1	2	3	4	5	6	7		
Α	TENAGA							
	Pekerja		ОН	0.075	144,898.94	10,867	100.00%	10,867
	Mandor		ОН	0.0075	204,889.75	1,537	100.00%	1,537
				JUMLAH TEN	AGA KERJA	12,404		
В	BAHAN							
	Minyak tanah		liter	0.01	20,582.01	206	100.00%	206
				JUMLAH HAF	RGA BAHAN	206		
С	PERALATAN							
				JUMLAH HARGA ALAT		-		
D	Jumlah (A+B+C)					12,610		
E	Overhead & Profit (7 %)			15% x D (maksimum)		883		
F	Harga Satuan Pekerjaan (D+E)					13,493	100.00%	12,610

#### B.2 GALIAN TANAH

С

PERALATAN

Jumlah (A+B+C)
Overhead & Profit (7 %)

No	Uraian	Kode	Satuan	Koefisien	Harga Satuan (Rp)	Jumlah Harga (Rp)	TKDN	Jumlah Biaya TKDN
1	2	3	4	5		7		
Α	TENAGA							
	Pekerja		ОН	0.563	144,898.94	81,578	100.00%	81,578
	Mandor		ОН	0.0563	204,889.75	11,535	100.00%	11,535
				JUMLAH TEN	IAGA KERJA	93,113		
В	BAHAN							
				JUMLAH HAF	RGA BAHAN	-		
С	PERALATAN							
				JUMLAH HAF	RGA ALAT	-		
D	Jumlah (A+B+C)					93,113		
<u>E</u>	Overhead & Profit (7 %)			15% x D (ma	ksimum)	6,518	400.000/	00.440
F	Harga Satuan Pekerjaan (D+E)					99,631	100.00%	93,113
.2b	1 m3 galian tanah biasa sedalam	> 1 m - 2 m			Harga	Jumlah		
No	Uraian	Kode	Satuan	Koefisien	Satuan	Harga	TKDN	Jumlah Biaya TKDN
140	Ordian	Rouc	Jacaan	Rochisten	(Rp)	(Rp)		
1	2	3	4	5		7		
	TENAGA	1		†	<u> </u>			
	Pekerja		ОН	0.675	144,899	97,807	100.00%	97,807
	Mandor		ОН	0.0675		13,830	100.00%	13,830
				JUMLAH TEN	· · · · · · · · · · · · · · · · · · ·	111,637	Į.	.,
В	BAHAN					,		
				JUMLAH HAF	RGA BAHAN	-		
С	PERALATAN							
				JUMLAH HAF	RGA ALAT	-		
D	Jumlah (A+B+C)					111,637		
E	Overhead & Profit (7 %)			15% x D (ma	ksimum)	7,815		
F	Harga Satuan Pekerjaan (D+E)					119,451	100.00%	111,637
3.2d	1 m3 galian tanah dengan alat (E	XAVATOR)	Untuk Galia	n Pipa				
No	Uraian	Kode	Satuan	Koefisien	Harga Satuan (Rp)	Jumlah Harga (Rp)	TKDN	Jumlah Biaya TKDN
1	2	3	4	5		7		
A	TENAGA					,		
	Pekerja		jam	0.4481	144,898.94	64,936	100.00%	64,936
	Mandor		jam	0.0747	204,889.75	15,303	100.00%	15,303
				JUMLAH TEN	IAGA KERJA	80,240	•	
В	BAHAN							
				JUMLAH HAF	RGA BAHAN	-		
С	PERALATAN						Ē	
	Excavator		jam	0.07469136		21,680	75.00%	16,260
	Dump truck		jam	0.14190241		81,984	75.00%	61,488
				JUMLAH HAF	RGA ALAT	103,664		
D	Jumlah (A+B+C)					183,903		
<u>E</u>	Overhead & Profit (7 %)			15% x D (ma	ksimum)	12,873	05.040/	457.007
F	Harga Satuan Pekerjaan (D+E)					196,776	85.91%	157,987
3.2h	1 m3 Timbunan tanah atau uruga	n tanah ke	mbali		llaus:	loundate		
No	Uraian	Kode	Satuan	Koefisien	Harga Satuan (Rp)	Jumlah Harga (Rp)	TKDN	Jumlah Biaya TKDN
1	2	3	4	5		7		
Α	TENAGA						-	
	Pekerja		ОН	0.3300	144,898.94	47,817	100.00%	47,817
	1		011	0.0000	204 000 75	6,761	100.00%	6,761
	Mandor		ОН	0.0330	204,889.75		100.0070	0,701
	Mandor		ОН	JUMLAH TEN		54,578	100.00%	0,701
В	BAHAN		ОН	JUMLAH TEN	NAGA KERJA		100.00%	0,701
В			ОН		NAGA KERJA		100.00%	0,701

JUMLAH HARGA ALAT

15% x D (maksimum)

3,820

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#### B.2i 1 m3 Pemadatan tanah

No	Uraian	Kode	Satuan	Koefisien	Harga Satuan (Rp)	Jumlah Harga (Rp)	TKDN	Jumlah Biaya TKDN
1	2	3	4	5	6	7		
Α	TENAGA							
	Pekerja		ОН	0.2333	144,898.94	33,805	100.00%	33,805
	Tukang		ОН	0.0467	204889.75	9,568	100.00%	9,568
	Mandor		ОН	0.0233	178,165.00			
				JUMLAH TEN	AGA KERJA	43,373		
В	BAHAN							
				JUMLAH HAF	RGA BAHAN	-		
С	PERALATAN							
	Stamper		Sewa-hari	0.05	482,890.90	24,145	75.00%	18,108
				JUMLAH HARGA ALAT		24,145		
D	Jumlah (A+B+C)					67,518		
E	Overhead & Profit (7 %)			15% x D (maksimum)		4,726		
F	Harga Satuan Pekerjaan (D+E)					72,244	91.06%	61,482

B.2i 1	m3 P	engurug	an na	asir

No	Uraian	Kode	Satuan	Koefisien	Harga Satuan (Rp)	Jumlah Harga (Rp)	TKDN	Jumlah Biaya TKDN
1	2	3	4	5	6	7		
Α	TENAGA							
	Pekerja		ОН	0.3000	144,898.94	43,470	100.00%	43,470
	Mandor		ОН	0.0100	204,889.75	2,049	100.00%	2,049
				JUMLAH TEN	AGA KERJA	45,519		
В	BAHAN							
	Pasir Urug		m3	1.2	167,788.10	201,346	100.00%	201,346
				JUMLAH HAF	RGA BAHAN	201,346		
С	PERALATAN							
				JUMLAH HAF	RGA ALAT	-		
D	Jumlah (A+B+C)					246,864		
E	Overhead & Profit (7 %)			15% x D (mal	ksimum)	17,281		
F	Harga Satuan Pekerjaan (D+E)					264,145	100.00%	246,864

#### B.2k 1 m3 Pemadatan Pasir

No	Uraian	Kode	Satuan	Koefisien	Harga Satuan (Rp)	Jumlah Harga (Rp)	TKDN	Jumlah Biaya TKDN
1	2	3	4	5	6	7		
Α	TENAGA							
	Pekerja		ОН	0.1000	144,898.94	14,490	100.00%	14,490
	Mandor		ОН	0.0100	204,889.75	2,049	100.00%	2,049
				JUMLAH TEN	AGA KERJA	16,539		
В	BAHAN							
				JUMLAH HAR	GA BAHAN	-		
С	PERALATAN							
	Stamper		Sewa-hari	0.1	477,071.73	47,707	75.00%	35,780
				JUMLAH HAR	GA ALAT	47,707		
D	Jumlah (A+B+C)					64,246		
Е	Overhead & Profit (7 %)			15% x D (mal	ksimum)	4,497		
F	Harga Satuan Pekerjaan (D+E)					68,743	81.44%	52,319

#### B.3 PEKERJAAN PONDASI DAN PEMANCANGAN

# B.3c 1 m pancang cerucuk galam dia. 8-10 cm

					Harga	Jumlah		
No	Uraian	Kode	Satuan	Koefisien	Satuan	Harga	TKDN	Jumlah Biaya TKDN
					(Rp)	(Rp)		
1	2	3	4	5	6	7		
Α	TENAGA							
	Pekerja		ОН	0.0300	144,898.94	4,347	100.00%	4,347
	Mandor		ОН	0.0030	204,889.75	615	100.00%	615
	Operator Tripod		ОН	0.0050	179,946.25	900	100.00%	900
				JUMLAH TEN	AGA KERJA	5,861		
В	BAHAN							
	Kayu galam dia. 8-10 cm		m	1.05	5,145.50	5,403	100.00%	5,403
				JUMLAH HAR	GA BAHAN	5,403		
С	PERALATAN							
	tripod tinggi 5 m		Sewa-hari	0.005	373,750.00	1,869	100.00%	1,869
	alat pancang hammer 0,5 ton		Sewa-hari	0.005	1,211,822.85	6,059	100.00%	6,059
	alat penyambung tiang pancang d	olken	Sewa-hari	0.25	31,625.00	7,906	100.00%	7,906
				JUMLAH HAR	GA ALAT	15,834		
D	Jumlah (A+B+C)					27,098		
Е	Overhead & Profit (7 %)			15% x D (mal	csimum)	1,897		
F	Harga Satuan Pekerjaan (D+E)					28,995	100.00%	27,098

#### B.4 PEKERJAAN BETON

B.4b 1 m3 Beton untuk lantai kerja campuran (K-175) manual

No	Uraian	Kode	Satuan	Koefisien	Harga Satuan (Rp)	Jumlah Harga (Rp)	TKDN	Jumlah Biaya TKDN
1	2	3	4	5	6	7		
Α	TENAGA							
	Pekerja		ОН	1.6000	144,898.94	231,838	100.00%	231,838
	Tukang Batu		ОН	0.2750	179,946.25	49,485	100.00%	49,485
	Kepala Tukang		ОН	0.0280	213,934.50	5,990	100.00%	5,990
	Mandor		ОН	0.1650	204,889.75	33,807	100.00%	33,807
				JUMLAH TEN	AGA KERJA	321,121		
В	BAHAN							
	Semen Portland		Kg	326	1,800.93	587,102	85.14%	499,858
	Pasir beton		Kg	760	321.59	244,411	100.00%	244,411
	Kerikil		Kg	1029	257.28	264,736	100.00%	264,736
	Air		Liter	215	48.24	10,371	100.00%	10,371
				JUMLAH HAF	GA BAHAN	1,106,621		
С	PERALATAN							
				JUMLAH HAF	GA ALAT	-		
D	Jumlah (A+B+C)					1,427,741		
Е	Overhead & Profit (7 %)			15% x D (mal	csimum)	99,942		
F	Harga Satuan Pekerjaan (D+E)					1,527,683	93.89%	1,340,498

B.4c 1 m3 Beton untuk lantai kerja campuran (K-175) dengan molen

No	Uraian	Kode	Satuan	Koefisien	Harga Satuan (Rp)	Jumlah Harga (Rp)	TKDN	Jumlah Biaya TKDN
1	2	3	4	5	6	7		
Α	TENAGA							
	Pekerja		ОН	1.6000	144,899	231,838	100.00%	231,838
	Tukang Batu		ОН	0.2750	179,946	49,485	100.00%	49,485
	Kepala Tukang		ОН	0.0280	213,935	5,990	100.00%	5,990
	Mandor		ОН	0.1650	204,890	33,807	100.00%	33,807
				JUMLAH TEN	AGA KERJA	321,121		
В	BAHAN							
	Semen Portland		Kg	326	1,800.93	587,102	85.14%	499,858
	Pasir beton		Kg	760	321.59	244,411	100.00%	244,411
	Kerikil		Kg	1029	257.28	264,736	100.00%	264,736
	Air		Liter	215	48.24	10,371	100.00%	10,371
				JUMLAH HAR	RGA BAHAN	1,106,621		
С	PERALATAN							
	Molen 0,3 m3		Sewa-hari	0.25	612,539.45	153,135		
				JUMLAH HAR	RGA ALAT	153,135		
D	Jumlah (A+B+C)					1,580,876		
E	Overhead & Profit (7 %)			15% x D (mal	ksimum)	110,661		
F	Harga Satuan Pekerjaan (D+E)					1,691,537	84.79%	1,340,498

B.4d	1 m3 Reton	untuk lantai keri	ia camnuran	(K-225) manual
D.4u	T III2 DELOII	untuk lantai ken	ia callibulali	(K-223) IIIaiiuai

No	Uraian	Kode	Satuan	Koefisien	Harga Satuan	Jumlah Harga	TKDN	Jumlah Biaya TKDN
					(Rp)	(Rp)		
1	2	3	4	5	6	7		
Α	TENAGA							
	Pekerja		ОН	1.6500	144,898.94	239,083	100.00%	239,083
	Tukang Batu		ОН	0.2750	179,946.25	49,485	100.00%	49,485
	Kepala Tukang		ОН	0.0280	213,934.50	5,990	100.00%	5,990
	Mandor		ОН	0.1650	204,889.75	33,807	100.00%	33,807
				JUMLAH TEN	AGA KERJA	328,365		
В	BAHAN							
	Semen Portland		Kg	371	1,800.93	668,143	85.14%	568,857
	Pasir beton		Kg	698	321.59	224,473	100.00%	224,473
	Kerikil		Kg	1047	257.28	269,367	100.00%	269,367
	Air		Liter	215	48.24	10,371	100.00%	10,371
				JUMLAH HAF	RGA BAHAN	1,172,354		
С	PERALATAN							
				JUMLAH HAF	RGA ALAT	-		
D	Jumlah (A+B+C)					1,500,720		
E	Overhead & Profit (7 %)			15% x D (mal	ksimum)	105,050		
F	Harga Satuan Pekerjaan (D+E)					1,605,770	93.38%	1,401,434

# B.4e 1 m3 Beton untuk lantai kerja campuran (K-225) dengan molen

B.4e	1 m3 Beton untuk lantai kerja ca	mpuran (K-	·225) dengan	molen				
No	Uraian	Kode	Satuan	Koefisien	Harga Satuan (Rp)	Jumlah Harga (Rp)	TKDN	Jumlah Biaya TKDN
1	2	3	4	5	6	7		
Α	TENAGA							
	Pekerja		ОН	1.6500	144,898.94	239,083	100.00%	239,083
	Tukang Batu		ОН	0.2750	179,946.25	49,485	100.00%	49,485
	Kepala Tukang		ОН	0.0280	213,934.50	5,990	100.00%	5,990
	Mandor		ОН	0.1650	204,889.75	33,807	100.00%	33,807
				JUMLAH TEN	AGA KERJA	328,365		
В	BAHAN							
	Semen Portland		Kg	371	1,800.93	668,143	85.14%	568,857
	Pasir beton		Kg	698	321.59	224,473	100.00%	224,473
	Kerikil		Kg	1047	257.28	269,367	100.00%	269,367
	Air		Liter	215	48.24	10,371	100.00%	10,371
				JUMLAH HAR	GA BAHAN	1,172,354		
С	PERALATAN							<u> </u>
	Molen 0,3 m3		Sewa-hari	0.25	612,539.45	153,135	100.00%	153,135
				JUMLAH HAR	GA ALAT	153,135		
D	Jumlah (A+B+C)					1,653,855		
E	Overhead & Profit (7 %)			15% x D (mak	csimum)	115,770		
F	Harga Satuan Pekerjaan (D+E)				•	1,769,625	94.00%	1,554,569

B.4l	Pembesian 10 kg dengan besi polos atau besi uli	r
D.41	relibesiali 10 kg deligali besi polos atau besi dili	

No	Uraian	Kode	Satuan	Koefisien	Harga Satuan (Rp)	Jumlah Harga (Rp)	TKDN	Jumlah Biaya TKDN
Α	TENAGA							
	Pekerja		ОН	0.07	144,898.94	10,143	100.00%	10,143
	Tukang besi		ОН	0.07	179,946.25	12,596	100.00%	12,596
	Kepala tukang		ОН	0.007	213,934.50	1,498	100.00%	1,498
	Mandor		ОН	0.0035	204,889.75	717	100.00%	717
				JUMLAH TEN	iaga kerja	24,954		
В	BAHAN							
	Besi beton (polos/ulir)		kg	10.500	16,722.88	175,590	45.27%	79,490
	Kawat beton		kg	0.15	22,511.57	3,377	48.52%	1,638
				JUMLAH HAF	RGA BAHAN	178,967		
С	PERALATAN							
				JUMLAH HAF	RGA ALAT			
D	Jumlah (A+B+C)					203,921		
E	Overhead & Profit (7 %)			15% x D (ma	ksimum)	14,274		
F	Harga Satuan Pekerjaan (D+E)				B.4I	218,195	52.02%	106,082
F	Harga Satuan Pekerjaan Per 1 kg		•	•		21,820		

B.4m 1 m2 Bekisting dengan multiplex 12 mm (tanpa perancah)

D.4111	I IIIZ BEKISTING GENGAN MUTUPLEX		pa peramoun	7				
					Harga	Jumlah		
No	Uraian	Kode	Satuan	Koefisien	Satuan	Harga	TKDN	Jumlah Biaya TKDN
					(Rp)	(Rp)		
Α	TENAGA							
	Pekerja		ОН	0.2	144,898.94	28,980	100.00%	28,980
	Tukang kayu		ОН	0.1	179,946.25	17,995	100.00%	17,995
	Kepala tukang		ОН	0.01	213,934.50	2,139	100.00%	2,139
	Mandor		ОН	0.02	204,889.75	4,098	100.00%	4,098
				JUMLAH TEN	AGA KERJA	53,212		
В	BAHAN							
	Multiplex 12 mm		Lbr	0.128	236,049.90	30,214	85.06%	25,700
	Kaso 5/7 cm		m3	0.005	6,431,877.34	32,159	100.00%	32,159
	paku 5 cm - 7 cm		kg	0.22	28,943.45	6,368	58.75%	3,741
	Minyak Bekisting		L	0.2	73,507.17	14,701	100.00%	14,701
				JUMLAH HAF	RGA BAHAN	83,443		
С	PERALATAN							
				JUMLAH HAF	RGA ALAT			
D	Jumlah (A+B+C)					136,654		
E	Overhead & Profit (7 %)			15% x D (ma	ksimum)	9,566		
F	Harga Satuan Pekerjaan (D+E)				B.4m	146,220	94.77%	129,514

#### C.1 PASANGAN DINDING

C.1a Pemasangan 1 m2 dinding bata merah (5x11x22) cm tebal 1 batu campuran 1 SP: 4 PP

C.1a	Temasangan 1 m2 umung bata i		,			turna la la		
					Harga	Jumlah		
No	Uraian	Kode	Satuan	Koefisien	Satuan	Harga		
					(Rp)	(Rp)		
Α	TENAGA							
	Pekerja		ОН	0.6	144,898.94	86,939	100.00%	86,939
	Tukang batu		ОН	0.2	179,946.25	35,989	100.00%	35,989
	Kepala tukang		ОН	0.02	213,934.50	4,279	100.00%	4,279
	Mandor		ОН	0.03	204,889.75	6,147	100.00%	6,147
				JUMLAH TEN	AGA KERJA	133,354		
В	BAHAN						_	
	Bata merah		bh	140.01	1,286.38	180,109	100.00%	180,109
	Semen Portland		kg	26.55	1,800.93	47,815	85.14%	40,709
	Pasir Pasang		m3	0.09	321,593.87	29,908	100.00%	29,908
				JUMLAH HAR	GA BAHAN	257,832		
С	PERALATAN							
				JUMLAH HAR	GA ALAT			
D	Jumlah (A+B+C)					391,186		
E	Overhead & Profit (7 %)			15% x D (mal	simum)	27,383		
F	Harga Satuan Pekerjaan (D+E)				C.1a	418,569	98.18%	384,081

#### C.2 PASANGAN PLESTERAN

C.2a Pemasangan 1 m2 plesteran 1 SP: 4 PP tebal 15 mm

					Harga	Jumlah		
No	Uraian	Kode	Satuan	Koefisien	Satuan	Harga		
					(Rp)	(Rp)		
Α	TENAGA						_	
	Pekerja		ОН	0.3	144,898.94	43,470	100.00%	43,470
	Tukang batu		ОН	0.15	179,946.25	26,992	100.00%	26,992
	Kepala tukang		ОН	0.015	213,934.50	3,209	100.00%	3,209
	Mandor		ОН	0.015	204,889.75	3,073	100.00%	3,073
				JUMLAH TEN	AGA KERJA	76,744		
В	BAHAN						_	
	Semen Portland		kg	6.24	1,800.93	11,238	85.14%	9,568
	Pasir Pasang		m3	0.024	321,593.87	7,718	100.00%	7,718
				JUMLAH HAF	RGA BAHAN	18,956	-	
С	PERALATAN							
				JUMLAH HAF	RGA ALAT			
D	Jumlah (A+B+C)					95,700		
E	Overhead & Profit (7 %)			15% x D (ma	ksimum)	6,699		
F	Harga Satuan Pekerjaan (D+E)				C.2a	102,399	98.26%	94,030

C.2c Pemasangan 1 m2 acian

					Harga	Jumlah		
No	Uraian	Kode	Satuan	Koefisien	Satuan	Harga		
					(Rp)	(Rp)		
Α	TENAGA							
	Pekerja		ОН	0.2	144,898.94	28,980	100.00%	28,980
	Tukang batu		ОН	0.1	179,946.25	17,995	100.00%	17,995
	Kepala tukang		ОН	0.01	213,934.50	2,139	100.00%	2,139
	Mandor		ОН	0.01	204,889.75	2,049	100.00%	2,049
				JUMLAH TEN	IAGA KERJA	51,163		
В	BAHAN							
	Semen Portland		kg	3.25	1,800.93	5,853	85.14%	4,983
				JUMLAH HAF	RGA BAHAN	5,853		•
С	PERALATAN							
				JUMLAH HAF	RGA ALAT			
D	Jumlah (A+B+C)					57,016		
E	Overhead & Profit (7 %)			15% x D (mal	ksimum)	3,991		
F	Harga Satuan Pekerjaan (D+E)				C.2c	61,007	98.47%	56,146

# C.6 PEKERJAAN BESI DAN ALUMINIUM

Harga Satuan Pekerjaan / 1 cm

No	Uraian	Kode	Satuan	Koefisien	Harga Satuan (Rp)	Jumlah Harga (Rp)		
Α	TENAGA							
	Pekerja		ОН	0.06	· ·	8,694	100.00%	8,694
	Tukang las		ОН	0.06		10,797	100.00%	10,797
	Kepala tukang		ОН	0.006	·	1,284	100.00%	1,284
	Mandor		ОН	0.003		615 21,389	100.00%	615
В	BAHAN			JUMLAH TEN	IAGA KERJA	21,389		
	Besi Profil		Kg	1	23,154.76	26,628	53.10%	14,139
			1.0	JUMLAH HAF	· · · · · · · · · · · · · · · · · · ·	26,628		,
С	PERALATAN							
				JUMLAH HAF	RGA ALAT			
D	Jumlah (A+B+C)					48,017		
E	Overhead & Profit (7 %)			15% x D (ma	ksimum)	3,361		
F	Harga Satuan Pekerjaan (D+E)				C.6a	51,378	73.99%	35,528
6b	Pengerjaan 100 kg pekerjaan pe	rakitan						
					Harga	Jumlah		
No	Uraian	Kode	Satuan	Koefisien	Satuan	Harga		
					(Rp)	(Rp)		
Α	TENAGA						100.00%	
	Pekerja	L.01	OH	0.1	144,898.94	14,490	100.00%	14,490
	Tukangkonstruksibesi	L.03	ОН	0.1	179,946.25	17,995	100.00%	17,995
	Kepala tukang	L.03	OH	0.001	213,934.50	214	100.00%	214
	Mandor	L.04	ОН	0.005	'	1,024	100.00%	1,024
В	BAHAN			JUMLAH TEN	IAGA KERJA	33,723		
	Solar		Liter	1.000	8,050.00	8,050	66.43%	5,348
	Minyak pelumas		Liter	0.1	50,811.83	5,081	32.91%	1,672
	7- 1			JUMLAH HAF		13,131		,-
С	PERALATAN							
				JUMLAH HAF	RGA ALAT	-		
D	Jumlah (A+B+C)					46,854		
E	Overhead & Profit (7 %)			15% x D (ma	· · · · · · · · · · · · · · · · · · ·	3,280		
F	Harga Satuan Pekerjaan (D+E)				C.6b	50,134	86.96%	40,743
	Harga Satuan Pekerjaan / 1 kg					501		
C.6c	Pengerjaan 10 cm pengelasan d	engan las lis	strik					
					Harga	Jumlah		
No	Uraian	Kode	Satuan	Koefisien	Satuan	Harga		
					(Rp)	(Rp)		
Α	TENAGA							1
	Pekerja	L.01	ОН	0.04		5,796	100.00%	5,796
	Tukangkonstruksibesi	L.03	OH	0.02	179,946.25	3,599	100.00%	3,599
	Kepala tukang	L.03	OH	0.002	· ·	428	100.00% 100.00%	428
	Mandor	L.04	ОН	0.002 JUMLAH TEN	·	410 10,233	100.00%	410
В	BAHAN			JOIVILAITTEN	AGA KEIGA	10,233		
	Kawat las listrik		Kg	0.4	25,438.00	10,175	36.93%	3,758
	Solar		Liter	0.3	· · · · · · · · · · · · · · · · · · ·	2,415	66.43%	1,604
	Minyak pelumas		Liter	0.04	50,811.83	2,032	32.91%	669
				JUMLAH HAF	RGA BAHAN	14,623	<u></u>	
С	PERALATAN						-	
	Welding Set		Jam	0.17	94,241.37	16,021	75.00%	12,016
				JUMLAH HAF	RGA ALAT	16,021		
D	Jumlah (A+B+C)		1			40,876		
		1	1	1450/ 5/	1	2.001		
E F	Overhead & Profit (7 %) Harga Satuan Pekerjaan (D+E)			15% x D (ma	ksimum)	2,861 43,738	69.18%	28,279

4,374

#### C.8 PEKERJAAN PENGECATAN

C.8c 1 m2 Pengecatan bidang kayu/besi Baru

					Harga	Jumlah		
No	Uraian	Kode	Satuan	Koefisien	Satuan	Harga		
	0.000				(Rp)	(Rp)		
Α	TENAGA					, ,,		
	Pekerja		ОН	0.07	144,898.94	10,143	100.00%	10,143
	Tukang Cat		ОН	0.009	179,946.25	1,620	100.00%	1,620
	Kepala Tukang		ОН	0.006	213,934.50	1,284	100.00%	1,284
	Mandor		ОН	0.003	204,889.75	615	100.00%	615
				JUMLAH TEN	AGA KERJA	13,661		
В	BAHAN							
	Cat Manie		kg	0.2	53,384.58	10,677	46.52%	4,967
	Cat penutup		kg	0.26	87,473.53	22,743	36.92%	8,397
	Kuas		buah	0.01	25,727.51	257	100.00%	257
	Thiner A		liter	0.03	28,750.00	863	0.00%	0
	Ampelas		kg	0.2	12,863.75	2,573	100.00%	2,573
				JUMLAH HAR	GA BAHAN	37,113		
С	PERALATAN							
				JUMLAH HAR	GA ALAT	-		
D	Jumlah (A+B+C)					50,773		
Е	Overhead & Profit (7 %)			15% x D (mak	csimum)	3,554		
F	Harga Satuan Pekerjaan (D+E)					54,327	58.80%	29,854

#### D PEKERJAAN ASPAL

#### D.1 GALIAN BERASPAL

D.1a 1 m3 Galian perkerasan beraspal

D.1a	I III3 Gallali perkerasali beraspa	<u>'                                      </u>						
No	Uraian	Kode	Satuan	Koefisien	Harga Satuan (Rp)	Jumlah Harga (Rp)		
Α	TENAGA						_	
	Pekerja	L.01	jam	1.25	144,898.94	181,124	100.00%	181,124
	Mandor	L.04	jam	0.625	204,889.75	128,056	100.00%	128,056
				JUMLAH TEN	AGA KERJA	309,180		
В	BAHAN							
				JUMLAH HAR	GA BAHAN	-		
С	PERALATAN						_	
	Jack hammer		jam	0.5926	531,449.59	314,937	75.00%	236,203
	Compressor		jam	0.5926	228,568.92	135,450	75.00%	101,587
	Dump truck		jam	0.3472	577,746.56	200,594	75.00%	150,445
				JUMLAH HAR	GA ALAT	650,981		
D	Jumlah (A+B+C)					960,160		
E	Overhead & Profit (7 %)			15% x D (mal	csimum)	67,211		
F	Harga Satuan Pekerjaan (D+E)					1,027,372	83.05%	797,415

D.1b 1 m3 Galian perkerasan berbutir

No	Uraian	Kode	Satuan	Koefisien	Harga Satuan (Rp)	Jumlah Harga (Rp)		
Α	TENAGA						_	
	Pekerja	L.01	jam	1.5	144,898.94	217,348	100.00%	217,348
	Mandor	L.04	jam	0.25	204,889.75	51,222	100.00%	51,222
				JUMLAH TEN	AGA KERJA	268,571		
В	BAHAN							
				JUMLAH HAF	RGA BAHAN	-		
С	PERALATAN						_	
	Jack hammer		jam	0.2677	531,449.59	142,269	75.00%	106,702
	Compressor		jam	0.2677	228,568.92	61,188	75.00%	45,891
	Dump truck		jam	0.226	577,746.56	130,571	75.00%	97,928
				JUMLAH HAF	RGA ALAT	334,028	_	
D	Jumlah (A+B+C)					602,599		
Е	Overhead & Profit (7 %)			15% x D (mal	ksimum)	42,182		
F	Harga Satuan Pekerjaan (D+E)					644,780	86.14%	519,092

#### D.2 LAPISAN ASPAL

D.2a 1 Liter Lapis perekat aspal cair

D.2a	1 Liter Lapis perekat aspal cair							
					Harga	Jumlah		
No	Uraian	Kode	Satuan	Koefisien	Satuan	Harga		
					(Rp)	(Rp)		
Α	TENAGA							
	Pekerja		jam	0.0189	144,898.94	2,739	100.00%	2,739
	Mandor		jam	0.0047	204,889.75	963	100.00%	963
				JUMLAH TEN	AGA KERJA	3,702		
В	BAHAN							
	Aspal Emulsi (kerosene)		Liter	1.7895	21,804.06	39,018	35.59%	13,887
				JUMLAH HAF	RGA BAHAN	39,018		
С	PERALATAN						,	
	Asp. Distributor		jam	0.00002	477,937.20	10	75.00%	7
	Compressor		jam	0.00474	228,568.92	1,083	75.00%	813
				JUMLAH HAF	RGA ALAT	1,093		
D	Jumlah (A+B+C)					43,813		
E	Overhead & Profit (7 %)			15% x D (mal	ksimum)	3,067		
F	Harga Satuan Pekerjaan (D+E)					46,880	42.01%	18,408
D.2b	Laston Lapis Aus (AC-WC) / Ton							
					Harga	Jumlah		
No	Uraian	Kode	Satuan	Koefisien	Satuan	Harga		
					(Rp)	(Rp)		
Α	TENAGA							
	Pekerja		jam	0.241	144,898.94	34,921	100.00%	34,921
	Mandor		jam	0.0201	204,889.75	4,118	100.00%	4,118
				JUMLAH TEN	AGA KERJA	39,039		
В	BAHAN							
	Agregat Kasar		m3	0.3341	321,593.87	107,445	100.00%	107,445
	Agregat Halus		m3	0.4236	385,912.64	163,473	100.00%	163,473
	Semen		kg	9.588	1,800.93	17,267	85.14%	14,701
	Aspal		kg	59.16	21,804.06	1,289,928	32.48%	418,969
				JUMLAH HAF	RGA BAHAN	1,578,113		
С	PERALATAN							
	Wheel Loader		jam	0.0128	751,775.96	9,623	75.00%	7,217
	AMP		jam	0.0201	1,956,231.88	39,320	75.00%	29,490
	Genset		jam	0.0201	541,692.13	10,888	75.00%	8,166
	Dump truck		jam	0.0945	577,746.56	54,597	75.00%	40,948
	Aspal Finisher		jam	0.0125	1,334,480.41	16,681	75.00%	12,511
	Tandem Roller		jam	0.0286	597,283.66	17,082	75.00%	12,812
	P. Tyre Roller	1	jam	0.0229	604,082.57	13,833	75.00%	10,375
	Alat Bantu		ls	1	1,437.50	1,438	100.00%	1,438
		1		JUMLAH HAF	RGA ALAT	163,462		
D	Jumlah (A+B+C)	1				1,780,614		
E	Overhead & Profit (7 %)			15% x D (mal	ksimum)	124,643		
F	Harga Satuan Pekerjaan (D+E)	1				1,905,257	48.67%	866,582
	Harga Satuan Pekerjaan /m3					4,382,091		

El.5.1.1 Lapis Fondasi Agregat Kelas A

					Harga	Jumlah	
No	Uraian	Kode	Satuan	Koefisien	Satuan	Harga	
					(Rp)	(Rp)	
Α	TENAGA						
	Pekerja		ОН	0.0494	144,898.94	7,158	100
	Mandor		ОН	0.0071	204,889.75	1,455	100
				JUMLAH TEN	AGA KERJA	8,613	
В	BAHAN						
	Agregat A		m3	1.2608	540,277.70	681,182	100
				JUMLAH HAF	RGA BAHAN	681,182	
С	PERALATAN						
	Wheel Loader		jam	0.0071	751,775.96	5,338	75
	Dump Truck 10 Ton		jam	0.1893	577,746.56	109,367	75
	Motor Grader		jam	0.0106	934,627.11	9,907	75
	Vibro Roller		jam	0.0136	477,071.73	6,488	75
				JUMLAH HAF	RGA ALAT	131,100	
D	Jumlah (A+B+C)					820,895	
E	Overhead & Profit (7 %)			15% x D (mal	ksimum)	57,463	
F	Harga Satuan Pekerjaan (D+E)					878,358	96

3	100.00%	7,158
;	100.00%	1,455
3		
2	100.00%	681,182
2		
3	75.00%	4,003
7	75.00%	82,026
7	75.00%	7,430
3	75.00%	4,866
_		

788,120

674,590

El.5.1.2 Lapis Fondasi Agregat Kelas B

-					Цакаа	Jumlah
					Harga	
No	Uraian	Kode	Satuan	Koefisien	Satuan	Harga
					(Rp)	(Rp)
Α	TENAGA					
	Pekerja		ОН	0.0494	144,898.94	7,158
	Mandor		ОН	0.0071	204,889.75	1,455
				JUMLAH TEN	AGA KERJA	8,613
В	BAHAN					
	Agregat B		m3	1.2608	450,231.41	567,652
				JUMLAH HAF	RGA BAHAN	567,652
С	PERALATAN					
	Wheel Loader		jam	0.0071	751,775.96	5,338
	Dump Truck 10 Ton		jam	0. 1893	577,746.56	109,367
	Motor Grader		jam	0.0106	934,627.11	9,907
	Vibro Roller		jam	0.0136	477,071.73	6,488
				JUMLAH HAF	RGA ALAT	131,100
D	Jumlah (A+B+C)					707,365
E	Overhead & Profit (7 %)			15% x D (ma	ksimum)	49,516
F	Harga Satuan Pekerjaan (D+E)					756,880

100.00%	7,158
100.00%	1,455
100.00%	567,652
75.00%	4,003
75.00%	82,026
75.00%	7,430
75.00%	4,866
•	

95.37%

#### PEKERJAAN PEMASANGAN PIPA

F.1k 1 m' Upah pemasangan pipa HDPE dia.400 mm (16")

No	Uraian	Kode	Satuan	Koefisien	Harga Satuan (Rp)	Jumlah Harga (Rp)	
Α	TENAGA				(,	()	
	Pekerja		ОН	0.29000	144,898.94	42,021	100.00%
	Tukang pipa		ОН	0.14500	179,946.25	26,092	100.00%
	Mandor		ОН	0.02900	204,889.75	5,942	100.00%
				JUMLAH TEN	AGA KERJA	74,055	
В	BAHAN						
	Pekerjaan galian dengan Alat		m3	1.14	196,776.49	224,325	#REF!
	Pekerjaan pengurugan kembali		m3	1.14	58,398.47	66,574	#REF!
	Pekerjaan pemadatan		m3	0.12	72,244.07	8,669	#REF!
	Pekerjaan pengetesan		m	1	8,408.94	8,409	99.12%
				JUMLAH HAF	RGA BAHAN	307,978	
С	PERALATAN						
	Buttfusion / alat las		Sewa-hari	0.00295	442,848.48	1,304	75.00%
	Genset		Sewa-hari	0.00295	541,692.13	1,596	75.00%
				JUMLAH HAF	RGA ALAT	2,900	
D	Jumlah (A+B+C)					384,932	
E	Overhead & Profit (7 %)			15% x D (mal	ksimum)	26,945	
F	Harga Satuan Pekerjaan (D+E)					411,878	#REF!

100.00%	42,021
100.00%	26,092
100.00%	5,942

#REF!	#REF!	
#REF!	#REF!	
#REF!	#REF!	
99.12%		8,335

75.00%	978
75.00%	1,197

REF! #REF!

No	Uraian	Kode	Satuan	Koefisien	Harga Satuan	Jumlah Harga		
					(Rp)	(Rp)		
Α	TENAGA						-	
	Pekerja		ОН	1.25	144,898.94	181,124	100.00%	181,124
	Mandor		ОН	0.125	204,889.75	25,611	100.00%	25,611
	Tukang		ОН	0.25	179,946.25	44,987	100.00%	44,987
				JUMLAH TEN	AGA KERJA	251,721	<u>-</u>	
В	BAHAN							
	Pekerjaan galian		m3	4.5	196,776.49	885,494	100.00%	885,494
	Pekerjaan pengurugan kembali		m3	4.5	58,398.47	262,793	100.00%	262,793
	Pekerjaan pemadatan		m3	0.6	72,244.07	43,346	#REF!	#REF!
				JUMLAH HAR	RGA BAHAN	1,191,634		
С	PERALATAN							
	Alat Potong		jam	0.5	11,265.89	5,633	100.00%	5,633
	Pompa Air		jam	3	13,756.57	41,270	75.00%	30,952
				JUMLAH HAR	RGA ALAT	46,903	-	
D	Jumlah (A+B+C)					1,490,258		
E	Overhead & Profit (7 %)			15% x D (maksimum)		104,318		
F	Harga Satuan Pekerjaan (D+E)					1,594,576	#REF!	#REF!

T. 1k	Pengetesan 1 m' Pipa dia. 400	mm (16°)						
NT.	11 .	17. 1	C .	и с	Harga	Jumlah		
No	Uraian	Kode	Satuan	Koefisien	Satuan	Harga		
					(Rp)	(Rp)		
A	TENAGA							
	Pekerja		OH	0.0080	144, 899	1, 159	100.00%	1,159
	Mandor		OH	0.0008	204, 890	164	100.00%	164
		JUMLAH T	ENAGA KERJA	*		1, 323		
В	BAHAN							
	Air test		m3	0.1134	48, 239	5, 468	100.00%	5,468
	Bahan Bakar		m3	0.06	16, 100	966	99.86%	965
	01 i		m3	0.002	50, 812	102	32.91%	33
='		JUMLAH H	HARGA BAHAN			6, 536		
С	PERALATAN							
	JUMLAH HARGA ALAT							
D	Jumlah (A-	+B+C)				7, 859		
E	Overhead & Pro	fit (7 %)		15% x D	(maksimum)	550		
F	Harga Satuan Peke	erjaan (D+E)	)			8, 409	99.12%	7,789

Pembantu juru Ukur	0.004
Juru Ukur	0.0004
Pekerja	#REF!
Tukang	#REF!
Kepala Tukang	0.1890
Mandor	#REF!

# DAFTAR HARGA SATUAN UPAH, BAHAN DAN SEWA ALAT

No	KETERANGAN	SPEK		HARGA	SATUAN
A.	HARGA UPAH				
1	Pekerja		Rp	125,999	Hari
2	Tukang		Rp	156,475	Hari
	Repala Tukang		Rp	186,030	Hari
4	Mandor		Rp	178,165	Hari
	Juru Ukur		Rp	156,475	Hari
6	Pembantu Juru Ukur		Rp	125,999	Hari
7	Operator Tripod		Rp	156,475	Hari
В.	HARGA SATUAN BAHAN				
1	Pipa HDPE S-10 PN-8 Dia. 400 mm	400 mm	Rp	2,027,842	m
2	Pipa GI Medium dia. 16" (400 mm)	400 mm	Rp	3,904,964	m
3	Pipa GI Medium dia. 10" (250 mm)	250 mm	Rp	2,602,681	m
4	Pipa GI Medium dia. 2" (63 mm)	63 mm	Rp	314,605	m
	Pipa GI Medium dia. 1/2" (15 mm)	15 mm	Rp	75,939	m
	Rubber Packing 400 mm	400 mm	Rp	106,830	bh
	Rubber Packing 250 mm	250 mm	Rp	78,068	bh
	Rubber Packing 200 mm	200 mm	Rp	65,742	bh
	Rubber Packing 160 mm	160 mm	Rp	57,524	bh
	Rubber Packing 63 mm	63 mm	Rp	36,980	bh
	Flange Steel 16" (400 mm)	400 mm	Rp	3,496,984	bh
	Flange Steel 10" (250 mm)	250 mm	Rp	1,836,653	bh
	Flange Steel 2" (63 mm)	63 mm	Rp	228,443	bh
	Flange Blank 400 mm	400 mm	Rp	3,989,359	bh
	Gate Valve 2" (63 mm)	63 mm	Rp	3,203,075	bh
	Gate Valve 10" (250 mm)	250 mm	Rp	16,266,218	bh
	Gate Valve 16" (400 mm)	400 mm	Rp	55,314,145	bh
	R Flexible Rubber Joint 400 mm	400 mm	Rp	14,580,262	bh
	Flexible Rubber joint 250 mm	250 mm	Rp	12,083,890	bh
	Concentric Reducer DCI All Flange 250 x 160 mm	250 mm x 160 mm	Rp	4,019,521	bh
	Excentric Reducer DCI All Flange 400 x 200 mm	400 mm x 200 mm	Rp	6,967,170	bh
	Stub Flange HDPE 400 mm	400 mm	Rp	7,112,430	bh
	B All Flange Bend DCI 400 x 45°	400 mm x 45°	Rp	40,154,156	bh
	All Flange Bend DCI 400 x 90°	400 mm x 90°	Rp	40,154,156	bh
	Tee All Flange DCI 400 mm	400 mm	Rp	33,418,761	bh
	Water Meter (Elektromagnetic) 400 mm	400 mm	Rp	169,668,125	bh
	Dismantling Joint 400 mm	400 mm	Rp	53,294,923	bh
	Street Box	400 IIIII	Rp	557,644	bh
	Moer Baut M.20 x 100 mm		Rp	26,242	bh
	Moer Baut M.16 x 100 mm		Rp	20,067	bh
	Pengaman pipa dari besi beton dia. 12 mm		Rp	1,000,000	bh
	Klem penjepit pipa dari besi plat		Rp	500,000	bh
	B Long Bend All Flange DCI 10"x45° (250 mm x 45°)	250 mm x 45°	Rp	16,888,269	bh
	Combination Air Valve 2" (63 mm)	63 mm	Rp	26,180,314	bh
	Wafer Check Valve 250 mm	250 mm	Rp	10,882,736	bh
	Shock GI 15 mm	15 mm	Rp	6,739	bh
			+ -		
3,	Double Nipple 15 mm	15 mm	Rp	8,932	bh

No	KETERANGAN	SPEK		HARGA	SATUAN
38	Knee GI 15 mm	15 mm	Rp	9,753	bh
39	Brass Gate Valve 15 mm	15 mm	Rp	115,131	bh
40	Manometer 10 bar		Rp	726,802	m
41	Besi Baja Profil		Rp	20,135	kg
42	Besi beton (polos/ulir)		Rp	14,542	kg
43	Cat Dasar Besi/ meni		Rp	46,421	kg
44	Cat Besi		Rp	76,064	kg
45	Kuas 4"		Rp	22,372	bh
46	Amplas		Rp	11,186	lbr
47	Angker Baut 16 mm		Rp	32,000	bh
48	Klem penjepit dari besi plat		Rp	50,000	bh
49	Pengaman pipa dari besi beton dia. 12 mm		Rp	300,000	bh
50	Street Box		Rp	230,000	bh
51	Kawat beton		Rp	19,575	kg
52	Semen Portland		Rp	1,566	kg
53	Kerikil		Rp	224	kg
54	Pasir beton		Rp	280	kg
55	Pasir Urug		Rp	167,788	m3
	Pasir Pasang		Rp	279,647	m3
	Bata Merah		Rp	1,119	bh
58	Balok Meranti 5/7		Rp	13,563	m
	Multiplex 12 mm		Rp	205,261	lbr
	Kaso 5/7 cm		Rp	5,592,937	m3
	paku 5 cm - 7 cm		Rp	25,168	kg
	paku 2" - 3"		Rp	22,372	kg
	Kayu papan 3/20		Rp	7,550	m
	Cuka bibit		Rp	30,000	liter
	Paving block t:8 cm		Rp	169,857	m2
	Paving block segi enam		Rp	131,842	m2
	Air		Rp	42	liter
	Air		Rp	41,947	m3
	Kayu galam dia. 4-6 cm, p:4 m		Rp	3,635	bt
	Kayu galam dia. 8-10 cm		Rp	4,474	m
	BBM non subsidi		Rp	14,000	liter
	Solar		Rp	7,000	liter
	Minyak Pelumas		Rp	44,184	liter
	Minyak Tanah/karosene		Rp	17,897	liter
	Minyak Bekisting		Rp	63,919	liter
	Thiner A		Rp	25,000	kg
	Godam/palu		Rp	20,000	bh
	Gergaji besi		Rp	20,000	bh
	Pahat beton		Rp	20,000	bh
	Linggis		Rp	20,000	bh
	Kawat las listrik		Rp	22,120	kg
	Aspal		Rp	18,960	kg
	Kerosene		Rp	17,897	
			1		Liter
	Agregat Halus		Rp	279,647	m3
	Agregat Halus Bahan Agregat Base Kelas A		Rp	335,576	m3
			Rp	469,807	m3
87	Bahan Agregat Base Kelas B		Rp	391,506	m3

No	KETERANGAN	SPEK		HARGA	SATUAN
88	Bahan Agregat Base Kelas C		Rp	391,506	m3
89	Gorong-gorong 100x100		Rp	341,169	m'
90	Gorong-gorong 80x100		Rp	285,240	m'
91	Gorong-gorong 60x100		Rp	285,240	m'
92	Gorong-gorong 40x100		Rp	139,823	m'
93	HDD 16"		Rp	5,000,000	m'
94	Begel		Rp	30,000	bh
C.	HARGA SATUAN SEWA ALAT DAN JASA				
1	Sewa Meter roll 100 m		Rp	20,000	Hari
2	Jack hammer		Rp	462,130	Hari
3	Excavator		Rp	252,400	Jam
4	Vibro Roller		Rp	414,845	Jam
5	Stamper		Rp	419,905	Hari
6	tripod tinggi 5 m		Rp	325,000	Hari
7	alat pancang hammer 0,5 ton		Rp	1,053,759	Hari
8	alat penyambung tiang pancang dolken		Rp	27,500	Hari
9	Molen 0,3 m3		Rp	532,643	Hari
10	Welding Set		Rp	81,949	Jam
11	Compressor		Rp	198,756	jam
12	Dump truck		Rp	502,388	jam
13	Wheel Loader		Rp	653,718	jam
14	AMP		Rp	1,701,071	jam
15	Genset 135 KVA		Rp	486,746	jam
16	Genset 5 -10 KVA		Rp	471,037	Hari
17	Aspal Finisher		Rp	1,160,418	jam
18	Aspal Distributor		Rp	415,598	jam
19	Tandem Roller		Rp	519,377	jam
20	P. Tyre Roller		Rp	525,289	jam
21	Buttfusion / alat las		Rp	385,086	Hari
22	Pompa Air		Rp	11,962	Jam
23	Alat Bantu		Rp	1,250	ls
24	Alat Potong		Rp	2,000	ls
25	Alat Potong		Rp	9,796	jam
26	Motor Grader		Rp	812,719	jam

		PDAM	VINILON (ragampipa.co	VINILON (Panji pratama)	SUPRALON (ragampipa.c	SUPRALON	RUCIKA	UNILON
144,899	Rn	125,999						
179,946		156,475						
213,935		186,030						
204,890		178,165						
179,946		156,475						
144,899		125,999						
179,946		156,475						
2,332,019			870241.11	880900	941744.6	1058140	845400	
4,490,709			228106.11	230900		275800	221400	
2,993,083			193972.5				187935	185287.5
361,795								
87,330								
122,854								
89,778								
75,603								
66,152								
42,527								
4,021,531								
2,112,151								
262,709								
4,587,763								
3,683,536								
18,706,150								
63,611,267								
16,767,301								
13,896,473								
4,622,450								
8,012,246								
8,179,295								
46,177,280								
46,177,280								
38,431,575								
195,118,344								
61,289,161								
641,290								
30,178 23,078								
1,150,000								
575,000								
19,421,509								
30,107,361								
12,515,147								
7,749								
10,272								
,								

	PDAM	VINILON (ragampipa.co	VINILON (Panji pratama)	SUPRALON (ragampipa.c	SUPRALON	RUCIKA	UNILON
11,216							
132,400							
835,822							
23,155	20,135						
16,723	14,542						
53,385	46,421						
87,474	76,064						
25,728	22,372						
12,864	11,186						
36,800	,						
57,500	50000						
345,000	300000						
264,500	33333						
22,512	19,575						
1,801	1,566						
257	224						
322	280						
192,956	167,788						
321,594	279,647						
1,286	1,119						
15,597	13,563						
236,050	205,261						
6,431,877	5,592,937						
28,943	25,168						
25,728	22,372						
25,728 8,683	7,550						
34,500	30,000						
195,335	169,857						
151,618	131,842						
48	42						
48,239	41,947						
48,239	3,635						
5,146	4,474						
16,100	14,000						
8,050	7,000						
50,812	44,184						
20,582	17,897						
73,507	63,919						
28,750	25,000						
23,000	20,000						
23,000	20,000						
23,000	20,000						
23,000	20,000						
25,438	22,120						
21,804	18,960						
20,582	17,897						
321,594	279,647						
385,913	335,576						
540,278	469,807						
450,231	391,506						
750,251	331,300						

	PDAM	VINILON (ragampipa.co	VINILON (Panji pratama)	SUPRALON (ragampipa.c	SUPRALON	RUCIKA	UNILON
450,231	391,506						
392,345	341,169						
328,026	285,240						
328,026	285,240						
160,797	139,823						
5,750,000							
34,500	30,000						
23,000							
531,450							
290,260							
477,072							
482,891							
373,750							
1,211,823							
31,625							
612,539							
94,241							
228,569							
577,747							
751,776							
1,956,232							
559,758							
541,692							
1,334,480							
477,937							
597,284							
604,083							
442,848							
13,757							
1,438							
2,300							
11,266							
934,627							

2,409,000

564,452		959,567	
143,863		244,567	
446480			
17,984,264	12,275,000	18,509,089	
17,984,264	17,962,000	18,509,089	
	15,257,000	9,622,376	
	14,825,000	8,909,608	
	9,215,000	5,483,339	
	3,985,000	4,094,489	
1,752,200		2,697,200	
912,000		1,489,400	
600,000		1,089,000	
762,300		1,236,400	
475,900		646,800	
		7,260,000	9,095,000
		4,694,800	6,345,000

1,417,060

BUSUR KILAT	ADHILOGAM KARYA	CIPTA SUKSES BERSAMA	DPU	TOKOPEDIA
				45000
				20000
				200000
				22000
				32000
				230000
	BUSUR KILAT	BUSUR KILAT ADHILOGAM KARYA	BUSUR KILAT ADHILOGAM KARYA CIPTA SUKSES BERSAMA	BUSUR KILAT ADHILOGAM KARYA CIPTA SUKSES BERSAMA DPU

	diambil	overhead	1.07
Rp	125,999		
Rp	156,475		
Rp	186,030		
Rp	178,165		
Rp	156,475		
Rр	125,999		
Rp	156,475		
Rp	845,400	904,578.00	
Rp	221,400	236,898.00	
Rp	189,065	202,299.55	
Rp	1,913,030	202,233.33	
Rp	762,009		
Rp	194,215		
Rp	446,480		
Rp	16,256,118		
Rp	18,151,784		
Rp	12,439,688		
Rp	11,867,304		
Rp	7,349,170		
	#DIV/0!		
Rp	4,039,745		
Rp	2,224,700		
Rp	1,200,700		
Rp	844,500		
Rp	999,350		
Rp	561,350		
Rp	8,177,500		
Rp	5,519,900		

	diambil	overhead	1.07
Rp	45,000		
Rp	20,000		
Rp	200,000		
Rp	20,135		
Rp	14,542		
Rp	46,421		
Rp	76,064		
Rp	22,372		
Rp	11,186		
Rp	32,000		
Rp	50,000		
Rp	300,000		
Rp	230,000		
Rp	19,575		
Rp	1,566		
Rp	224		
Rp	280		
Rp	167,788		
Rp	279,647		
Rp	1,119		
	13,563		
Rp Pn	205,261		
Rp Rp	5,592,937		
-	25,168		
Rp	22,372		
Rp Rp	7,550		
Rp	30,000		
Rp	169,857		
Rp	131,842		
Rp	42		
Rp	41,947		
Rp	3,635		
Rp	4,474		
Rp	14,000		
Rp	7,000		
Rp	44,184		
Rp	17,897		
Rp	63,919		
Rp	25,000		
Rp	20,000		
Rp	22,120		
Rp	18,960		
Rp	17,897		
Rp	279,647		
Rp	335,576		
Rp	469,807		
Rp	391,506		
ıνþ	331,300		

	diambil	overhead 1.07
Rp	391,506	
Rр	341,169	
Rp	285,240	
Rp	285,240	
Rp	139,823	
Rp	30,000	
Rp	-	

## LAMPIRAN 1A PERHITUNGAN BIAYA JASA KONSTRUKSI

A Harga Kontrak Rp. 25,000,000,000.00 (A)

B Harga Kontrak dikurang PPN 11% Rp. 22,522,522,522.52 (A/1,11)

No	Uraian		NKKK		Besar luran		
1	2		3				4
1	NKKK ≤ Rp. 100.000.000,00	Rp.	100,000,000.00	х	0.24%	Rp.	240,000.00
2	Rp. 100.000.000,00 < NKKK ≤ Rp. 500.000.000,00	Rp.	400,000,000.00	х	0.19%	Rp.	760,000.00
3	Rp. 500.000.000,00 < NKKK ≤ Rp. 1.000.000.000,00	Rp.	500,000,000.00	х	0.15%	Rp.	750,000.00
4	Rp. 1.000.000.000,00 < NKKK ≤ Rp. 5.000.000.000,00	Rp.	4,000,000,000.00	х	0.12%	Rp.	4,800,000.00
5	NKKK > Rp. 5.000.000.000,00	Rp.	17,522,522,522.52	Х	0.10%	Rp.	17,522,522.52
		Rp.	22,522,522,522.52		Jumlah	Rp.	24,072,522.52
					Pembulatan	Rp.	24,073,000.00

Ket: NKKK = Nilai Kontrak Kerja Konstruksi setelah dikurangi pajak

# LAMPIRAN 1 RINCIAN RENCANA BIAYA SISTEM MANAJEMEN KESELAMATAN DAN KESEHATAN KERJA (SMK3) KONSTRUKSI LOKASI KAWASAN CEMPAKA TAHUN ANGGARAN 2022

NO	URAIAN PEKERJAAN	NO.ANALISA	VOLUME	SATUAN	н	ARGA SATUAN	JUMLAH HARGA	TKDN	JUMLAH BIAYA TKDN
1	2	3	4	5		6	7		
	SISTEM MANAJEMEN KESELAMATAN DAN KESEHATAN KERJA (SMK3) KONSTRUKSI	-							
1.	Penyiapan RK3							1	
1	Pembuatan Dokumen Rencana Keselamatan Kerja							1	
2	Pembuatan Manual, Prosedur, Instruksi Kerja, Ijin Kerja	-	1	Set	Rp	4,500,000.00	Rp 4,500,000.00	100.00% Rp	4,500,000.00
3	Penyiapan Formulir								
						Sub Total I	Rp 4,500,000.00		
II.	Sosialisasi dan Promosi K3								
1	Spanduk (Banner)	-	1	Lbr	Rp		Rp 350,000.00		
2	Poster	-	1	Lbr	Rp	150,000.00			
3	Papan Informasi K3	-	1	Bh	Rp	200,000.00			200,000.00
<b>L</b>	ALAK RELINDUNG RIPL	1	1	1	1	Sub Total II	Rp 700,000.00	4	
III.	ALAT PELINDUNG DIRI		14		-	75 000 00		400.000/ 0	4 050 000 00
2	Topi pelindung (Safety Helmet) Rompi Keselamatan (Safety Vest)	-	14	bh bh	Rp Rp	75,000.00 30,000.00			
3	Sarung Tangan (Safety Gloves)	-	14	-	Rp	10,000.00			
4	Sepatu Boot		4	psg	Rp	120,000.00			
5	Kaca Mata / Pelindung Las (Goggles / Welding Protectors)		2	bh	Rp		Rp 200,000.00		
6	Sarung Tangan Las (Welding Gloves)	-	2	psg	Rp				
7	Sepatu Keselamatan (Safety Shoes)	-	10	psg	Rp	400,000.00			
H		1		F*0	1	Sub Total III	Rp 6,490,000.00		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
IV.	ASURANSI DAN PERIJINAN						, , , , , , , , , , , , , , , , , , , ,		
1	Asuransi dan Perijinan	-	1	Ls	Rp	24,073,000.00	Rp 24,073,000.00	100.00% Rp	24,073,000.00
	,	*	+	+		Sub Total IV	Rp 24,073,000.00		
٧.	FASILITAS SARANA KESEHATAN							1	
1	Peralatan P3K	-	1	Ls	Rp	1,000,000.00	Rp 1,000,000.00	100.00% Rp	1,000,000.00
						Sub Total V	Rp 1,000,000.00		
VI.	RAMBU - RAMBU								
1	Rambu-rambu	-	8	bh	Rp	100,000.00			
2	Pita Pengaman/Pembatas Proyek (Safety Line )	-	5	bh	Rp	50,000.00			
3	Tongkat Pengatur Lalu Lintas (Warning Light Stick )	-	4	bh	Rp				
4	Kerucut Lalu Lintas (Troffict Cone )	-	6	bh	Rp		Rp 600,000.00		600,000.00
VII.	PERSONIL K3		1	1	-	Sub Total VI	Rp 2,250,000.00	4	
1	Petugas K3 (1 orang selama 4 bulan)		4	ОВ	Rp	3,150,000.00	Rp 12,600,000.00	100.00% Rg	12,600,000.00
1	Petugas K3 (1 orang selama 4 bulan)	-	4	UB		Sub Total VII	Rp 12,600,000.00		12,600,000.00
						Sub Total VII	np 12,600,000.00		
VIII.	KEGIATAN DAN PERALATAN TERKAIT PENGENDALIAN RESIKO KESELAMATAN KONSTRUKSI				Т			1	
1	Alat pemadam api ringan (APAR) 9 kg		1	bh	Rp	550,000	Rp 550,000.00	44.00% R	242,000.00
2	Bendera K3		2	bh	Rp	100,000	Rp 200,000.00		
F				311		Sub Total VIII	Rp 750,000.00		200,000.00
					1		,	1	
					TO	TAL	Rp 52,363,000.00	99.41% Rg	52,055,000.00
					10	IAL	nμ 52,363,000.00	99.41% K	32,055,000.00

			DAFTAR STANDAI	R SAT	UAN HARGA	PIPA 8	k AKSESORIS 2022-2023		
NO			NAMA BARANG			SATUAN	SPESIFIKASI		HARGA 2023
I	PIP	A HDPE							
I.1	PIP	A HDPE SDR - 11, PN - 16							
	1	Pipa HDPE 20 mm	Ø	1/	2 "	meter	SNI 4829.2.2015, S - 5, PN - 16	Rp	8,893
	2	Pipa HDPE 25 mm	Ø	3/	4 "	meter	SNI 4829.2.2015, S - 5, PN - 16	Rp	12,976
	3	Pipa HDPE 32 mm	Ø	1	"	meter	SNI 4829.2.2015, S - 5, PN - 16	Rp	21,589
	4	Pipa HDPE 50 mm	Ø	1	1/2 "	meter	SNI 4829.2.2015, S - 5, PN - 16	Rp	51,427
	5	Pipa HDPE 63 mm	Ø	2	"	meter	SNI 4829.2.2015, S - 5, PN - 16	Rp	81,181
								Rp	-
I.2	PIP	A HDPE SDR - 13,6, PN - 12.5						Rp	-
	2	Pipa HDPE 25 mm	Ø	3/	4 "	meter	SNI 4829.2.2015, S - 6.3, PN - 12.5	Rp	11,466
	3	Pipa HDPE 32 mm	Ø	1	"	meter	SNI 4829.2.2015, S - 6.3, PN - 12.5	Rp	18,205
	4	Pipa HDPE 50 mm	Ø	1	1/2 "	meter	SNI 4829.2.2015, S - 6.3, PN - 12.5	Rp	42,450
	5	Pipa HDPE 63 mm	Ø	2	"	meter	SNI 4829.2.2015, S - 6.3, PN - 12.5	Rp	67,283
			•				·	Rp	-

1			DAFTA	AR STANDAR S	ATUAN HARGA	A PIPA 8	k AKSESORIS 2022-2023		
1   PRINCES Manue	NO		NAMA BA	ARANG		SATUAN	SPESIFIKASI	НА	ARGA 2023
2   Pape OFFE Strom	I.3	PIPA	HDPE SDR - 17, PN - 10			-		Rp	-
Part		1	Pipa HDPE 63 mm	Ø	2 "	meter	SNI 4829.2.2015, S - 8, PN - 10	Rp	55,59
Part		2	Pipa HDPE 90 mm	Ø		meter	SNI 4829.2.2015, S - 8, PN - 10	Rp	112,50
Part   Sept		_							167,03
Page 1000 F 200 mm		_	•						339,68
Part		_							541,76 841,79
But   Sept   S			•						1,339,14
3   Bay 100   15   100		_				_			1,704,92
1   Part   10   Part   10   Part   10   Part   11   Part   12   Part   10   Part   12   Part   10   Part   13		_	•						2,153,16
13   Pack PR 20 mm		10	Pipa HDPE 500 mm	Ø	20 "	meter	SNI 4829.2.2015, S - 8, PN - 10	Rp	3,364,82
1   March 1978 (20 cmm   0   0   0   0   0   0   0   0   0		11	Pipa HDPE 630 mm	Ø	24 "	meter	SNI 4829.2.2015, S - 8, PN - 10	Rp	5,339,94
1		_				_			6,902,83
PRAMOTE 1-18 PAY-8   79   79   79   79   79   79   79   7		_	'						8,750,51
1   Pick Sept Sept Age   1   Pick Sept Sept Age   2   Pick Sept Sept Sept Age   2   Pick Sept Sept Sept Sept Sept Sept Sept Sept		14	Pipa HDPE 1000 mm	Ø	40	meter	SNI 4829.2.2015, S - 8, PN - 10		12,813,41
1   Par NPC   10   Par NPC   10   Par NPC   10   Par NPC   10   Par NPC	I.4	PIPA	HDPE S - 10, PN - 8						
S.   Par NOTE 10 mm		1	Pipa HDPE 63 mm	Ø	2 "	meter	SNI 4829.2.2015, S - 10, PN - 8		44,60
Part		2	Pipa HDPE 90 mm	Ø	3 "	meter	SNI 4829.2.2015, S - 10, PN - 8	Rp	91,89
Color   Part Port Store		3	Pipa HDPE 110 mm	Ø	4 "	meter		Rp	137,27
Part INFECT 2019 cm   0   10   10   10   10   10   10   10		_							279,19
Part			•						444,55
B   Part PDE 250 mm									686,47
To   Sep 1-907-4-40 mm						_			1,179,92 1,382,49
To   To   Part PS 500 mm			•			_			1,763,34
1   10   10   10   10   10   10   10		_	•						2,748,34
Top   10   10   10   10   10   10   10   1			•		24 "				4,344,03
March   Marc		12	Pipa HDPE 710 mm	Ø	28 "	meter	SNI 4829.2.2015, S - 10, PN - 8	Rp	5,626,91
PIA PICE   PIA PICE						meter			7,135,58
Mark   Price Are C. 10   Pri		14	Pipa HDPE 1000 mm	Ø	40 "	meter	SNI 4829.2.2015, S - 10, PN - 8		10,440,22
1.1   PPA PKC 5 CU		Die :	DVC						
		_							
Page PIC - SCI		_		Ø	2 "	meter	SNI 06.0084.2002, S.10 + SCJ		59,52
						meter			122,55
S   Piga PKC - RIK		3	Pipa PVC - SCJ	Ø	4 "	meter	SNI 06.0084.2002, S.10 + SCJ	Rp	182,37
Pipe PVC - RRI		4	Pipa PVC - SCJ	Ø	6 "	meter	SNI 06.0084.2002, S.10 + SCJ	Rp	387,58
Page Page Co. 1987   10   10   10   10   10   10   10   1						meter			402,35
B   Pigo PKC - RR			•						641,57
9   Page PMC - R8U		_				_			1,000,26
10   Page PWC - 8U   0   16   meter   SN 600842002, \$10 + 801   Rp   2		_							1,599,64 2,047,57
10   Page PWC - BRU									2,627,97
12.   PRA PICCO		_		Ø					4,201,84
III   PIPA STEEL   PIPA STEEL		10	Pipa PVC - RRJ	Ø	24 "	meter	SNI 06.0084.2002, S.10 + RRJ	Rp	6,480,70
Pape PVC-O								Rp	
3	II.2					1	T		
4						_			123,02
5		_	r						173,42 347,02
6   Pipe PVC-O		_				_			538,94
9   Piga PVC-Q   0   16   16   17   18   18   2   2   18   18   18   18		_	•						842,64
10   Pipa PVC-O		7	Pipa PVC-O	Ø	12 "	meter	SNI ISO 16422:2014	Rp	1,319,25
PIPA STEL		9	Pipa PVC-O	Ø	16 "	meter	SNI ISO 16422:2014	Rp	2,158,60
PIPA STEEL		10	Pipa PVC-O	Ø	20 "	meter	SNI ISO 16422:2014		3,426,94
1   Pipa Steel									
2   Pipa Steel	III				2.1	1 .	Ichii aaaa aada aasayiini acsay asa		407.00
3						_			197,89 328,73
A   Pipa Steel									479,46
S   Pipa Steel									781,33
Pipa Steel		_				_			1,314,11
R   Pipa Steel		6	Pipa Steel	Ø	10 "	meter	SNI 0039.2013, MEDIUM. ASTM A53	Rp	1,647,15
9   Pipa Steel									1,934,26
10   Pipa Steel									2,128,26
Pipa Steel						_			2,437,51
PIPA GI									3,309,90
PIPA GI		- 11	ripa steet	Ю	24	meter	ביטט טיאיב אוובטוטואו. ASTMI ASS		ა,ყ80,49
Pipa Gl Medium	v	PIPA	GI						
3   Pipa Gl Medium		1	Pipa GI Medium			meter			66,03
A   Pipa GI Medium									84,08
5         Pipa GI Medium         Ø         2 "         meter         SNI 0039.2013, MEDIUM. ASTM AS3         Rp           6         Pipa GI Medium         Ø         3 "         meter         SNI 0039.2013, MEDIUM. ASTM AS3         Rp           7         Pipa GI Medium         Ø         4 "         meter         SNI 0039.2013, MEDIUM. ASTM AS3         Rp           8         Pipa GI Medium         Ø         6 "         meter         SNI 0039.2013, MEDIUM. ASTM AS3         Rp         1           9         Pipa GI Medium         Ø         8 "         meter         SNI 0039.2013, MEDIUM. ASTM AS3         Rp         1           10         Pipa GI Medium         Ø         10 "         meter         SNI 0039.2013, MEDIUM. ASTM AS3         Rp         2           11         Pipa GI Medium         Ø         12 "         meter         SNI 0039.2013, MEDIUM. ASTM AS3         Rp         2           12         Pipa GI Medium         Ø         14 "         meter         SNI 0039.2013, MEDIUM. ASTM AS3         Rp         2           13         Pipa GI Medium         Ø         16 "         meter         SNI 0039.2013, MEDIUM. ASTM AS3         Rp         3           14         Pipa GI Medium         Ø         20 "									130,01 191,95
6   Pipa Gl Medium									273,56
8   Pipa Gl Medium		6	Pipa Gl Medium	Ø	3 "		SNI 0039.2013, MEDIUM. ASTM A53	Rp	454,44
9   Pipa GI Medium									657,46
10   Pipa Gl Medium									1,073,35 1,805,88
Pipa GI Medium						_			2,263,20
13   Pipa GI Medium		11	Pipa GI Medium	Ø		meter	SNI 0039.2013, MEDIUM. ASTM A53	Rp	2,694,67
14   Pipa GI Medium									2,964,96 3,395,62
15   Pipa Gl Medium						_			4,578,90
VII         WATER METER WITH COUPLING         Rp           1         Water Meter Single Jet Setara Itron         Ø ½ "         buah         SNI 2547.2008/ISO 4064, Single jet, Calss B         Rp           2         Water Meter Single Jet Setara Itron         Ø ¾ "         buah         SNI 2547.2008/ISO 4064, Single jet, Calss B         Rp         1.           3         Water Meter Single Jet Setara Itron         Ø 1 "         buah         SNI 2547.2008/ISO 4064, Single jet, Calss B         Rp         3.           4         Water Meter Single Jet Setara Itron         Ø 1 ½ "         buah         SNI 2547.2008/ISO 4064, Single jet, Calss B         Rp         4.								Rp	5,506,24
1         Water Meter Single Jet Setara Itron         Ø         ½ "         buah         SNI 2547.2008/ISO 4064, Single jet, Calss B         Rp           2         Water Meter Single Jet Setara Itron         Ø         ¾ "         buah         SNI 2547.2008/ISO 4064, Single jet, Calss B         Rp         1.           3         Water Meter Single Jet Setara Itron         Ø         1 "         buah         SNI 2547.2008/ISO 4064, Single jet, Calss B         Rp         3.           4         Water Meter Single Jet Setara Itron         Ø         1 ½ "         buah         SNI 2547.2008/ISO 4064, Single jet, Calss B         Rp         4.									
2     Water Meter Single Jet Setara Itron     Ø     ¾ "     buah     SNI 2547.2008/ISO 4064, Single jet, Calss B     Rp     1.       3     Water Meter Single Jet Setara Itron     Ø     1 "     buah     SNI 2547.2008/ISO 4064, Single jet, Calss B     Rp     3.       4     Water Meter Single Jet Setara Itron     Ø     1 ½ "     buah     SNI 2547.2008/ISO 4064, Single jet, Calss B     Rp     4.	VII			**	47.11		Iran ar ar account of the control of		
3         Water Meter Single Jet Setara Itron         Ø         1 "         buah         SNI 2547.2008/ISO 4064, Single jet, Calss B         Rp         3           4         Water Meter Single Jet Setara Itron         Ø         1 ½ "         buah         SNI 2547.2008/ISO 4064, Single jet, Calss B         Rp         4						_			471,62 1,143,33
4 Water Meter Single Jet Setara Itron Ø 1½" buah SNI 2547.2008/ISO 4064, Single jet, Calss B Rp 4.			*			_			1,143,33 3,179,88
		_							4,287,48
		Ė	<u> </u>	-		1			

Page   September   Page   Sept			DAFTAR STANI	DAR SA	TUAN HARGA	PIPA 8	k AKSESORIS 2022-2023		
T.   Date Table College   Col.   Co	NO		NAMA BARANG			SATUAN	SPESIFIKASI	НА	ıRGA 2023
Page   September   Page   Sept	VIII					•	<u></u>		-
3   More Name Michael   4   Novel Medical   5   4   Novel Medical   6   6   Novel Name   7   4   Novel Medical   6   1   Novel Name   7   1   Novel Name   8   1   1   1   1   1   1   1   1   1							1		10,042,817
A   Down Mark Yorkinson									
1   Direct Month Michael   10   10   10   10   10   10   10   1		_							
Section   Control of		_							
Part   Description   Descrip		_							
No.   No.   Sept.		_							
1			water Weter Worthan	10	12	Duaii	13O 4004, Woltman, Caiss B, WNAS		71,301,037
1   20	VIII	WΔT	FR METER FLEKTROMAGNETIK PN 10 AC POWER					_	
Note Nature Extremelyment				Ø	2 "	huah	OIML R49, ISO 4064 CLASS C. PN 16 EN 1092, IP 68, WRAS		64 762 500
Section   Sect		_	-						71,252,500
Comparison   Com		_	-					· ·	74,937,500
Section   Sect		_	3						80,272,500
Fig.   South Webs Editionary (Cont.)   South   South Sect.   South Sec		_	3						
The content of the processing content of the cont		_	-			buah			98,147,500
Note Note Beleveruppein		_							108,625,000
To protect the telescope   10   15   1   15   15   15   15   15		_						· ·	124,162,500
To		_	-						147,537,500
10		10		Ø					182,435,000
WATER METER BLEETENDMANNITE PRI-10 BATTEST POWER   1   Today School Edeberospecifies   0   2   1   bas   Double Rept Bod alled CASS C, PN 16 by 1902, PM 1905   0   0   0   0   0   0   0   0   0		11		Ø	24 "	buah			216,133,500
Name More descriptionsepages									-
2   Diese Mere Telemonagnetis   0   2	VIII	WAT	ER METER ELEKTROMAGNETIK PN.10 BATTERY POWER					Rp	-
Name Maner Februsonspierrick   O		1	Water Meter Elektromagnetik	Ø	2 "	buah	OIML R49, ISO 4064 CLASS C, PN 16 EN 1092, IP 68, WRAS	Rp	86,597,500
A   Distant Marker Enterlangements	ĺ	2	Water Meter Elektromagnetik	Ø	3 "	buah	OIML R49, ISO 4064 CLASS C, PN 16 EN 1092, IP 68, WRAS	Rp	90,972,750
Source Mere Celebromagnetics   D		3	Water Meter Elektromagnetik	Ø	4 "	buah	OIML R49, ISO 4064 CLASS C, PN 16 EN 1092, IP 68, WRAS	Rp	101,733,500
		4	Water Meter Elektromagnetik	Ø	6 "	buah	OIML R49, ISO 4064 CLASS C, PN 16 EN 1092, IP 68, WRAS	Rp	106,430,500
		5	Water Meter Elektromagnetik	Ø	8 "	buah	OIML R49, ISO 4064 CLASS C, PN 16 EN 1092, IP 68, WRAS	Rp	108,625,000
Notes More Determinagements	ĺ	6	Water Meter Elektromagnetik	Ø	10 "	buah	OIML R49, ISO 4064 CLASS C, PN 16 EN 1092, IP 68, WRAS	Rp	118,541,500
Name Name February   Programme   Program	ĺ	7	Water Meter Elektromagnetik	Ø	12 "	buah	OIML R49, ISO 4064 CLASS C, PN 16 EN 1092, IP 68, WRAS	Rp	127,050,000
X.   BASS SAFT VALVE	ĺ	8	Water Meter Elektromagnetik	Ø	14 "	buah	OIML R49, ISO 4064 CLASS C, PN 16 EN 1092, IP 68, WRAS	Rp	138,462,500
IX.   BRASS GET VALVEY	ĺ	9	-	Ø		buah		Rp	156,876,500
No.								Rp	-
	IX	ACC	ESSORIES & FITTING					Rp	
Peace Gase Valve	IX.1	BRA:	SS GATE VALVE					Rp	-
A		1	Brass Gate Valve			buah	JIS B0203, BS-21, atau EN 10242	Rp	100,114
A   Brass Cate Valve		2	Brass Gate Valve	Ø	3/4 "	buah	JIS B0203, BS-21, atau EN 10242	Rp	148,772
Street Power		3	Brass Gate Valve		1 "	buah	JIS B0203, BS-21, atau EN 10242	Rp	265,105
Part		4	Brass Gate Valve			buah		Rp	512,313
N.		5	Brass Gate Valve	Ø	2 "	buah	JIS B0203, BS-21, atau EN 10242		2,122,240
2   Sees Ball Valve	IX.2						<u> </u>		-
3   Seas Ball Valve		_							130,036
4 Bass Ball Valve		_							174,500
Seast Ball Valve		_							272,096
No.									670,034
Incompage   Inco		5	Brass Ball Valve	Ø	2 "	buah	JIS B0203, BS-21, atau EN 10242		1,080,555
Nagpretic Lockable Angle Valve	IV 2	100	VADLE ANGLE VALVE						
2   Magnetic Lockable Angle Valve   0   11"   bush   15 80003, 85-21, atau EN 10242   Rp   295.5	13.3	_		a	16.9	buob	HC B0202 BC 21 atou FN 10242		107 022
3   Magnetic Lockable Angle Valve				-				<u> </u>	
I.   I.   Pap Kran Berd Setara Onda		_			1 "				
TAP RRAN		3	IMAGNETIC LOCKABLE ANGLE VAIVE	10		Duaii	313 B0203, B3-21, atau EN 10242		
1   Tap Kan Besi Setara Chda	IX.4	TAP	KRAN						
Incompany   Texas		1		Ø	1/2 "	buah	Ball valve, handle,Bahan metal dan drat sesuai BS 21		54,531
IX.S   GATE VALVE		2		Ø	3/4 "	buah		Rp	76,064
1   Gate Valve (Risilient)								Rp	-
2   Gate Valve (Risillent)	IX.5	GAT	E VALVE					Rp	-
3   Gate Valve (Risilient)		1	Gate Valve (Risilient)	Ø	2 "	buah	-	Rp	2,321,069
4   Gate Valve (Rislient)		2	Gate Valve (Risilient)	Ø	3 "	buah	Flange PN 10, EPDAM Seal, WRAS	Rp	3,132,045
S   Gate Valve (Risilient)	1	3	Gate Valve (Risilient)	Ø	4 "	buah	Flange PN 10, EPDAM Seal, WRAS	Rp	3,579,480
6 Gate Valve (Risilient)	ĺ	4	Gate Valve (Risilient)	Ø		buah	Flange PN 10, EPDAM Seal, WRAS	Rp	6,498,993
7   Gate Valve (Risilient)	1	_							9,273,089
8   Gate Valve (Risilient)		_				buah			14,144,537
9 Gate Valve (Risilient)	ĺ	_							18,904,126
10   Gate Valve (Risilient)	Ì	_							39,038,699
11   Gate Valve (Risilient)	Ì	_							48,099,257
No.   No.	ĺ	_							84,735,230
Rp		11	Gate Valve (Risilient)	Ø	∠4 <sup>"</sup>	buah	Flange PN 10, EPDAM Seal, WRAS		147,653,532
1   Butterfly Valve Wafer Type	737 -	D	FEDELY VALVE						
2 Butterfly Valve Wafer Type	1X.6			Ø	2"	huah	Wafer type PN 10 FPDM Cost WPAC		1 846 120
3 Butterfly Valve Wafer Type	ĺ								
4 Butterfly Valve Wafer Type	ĺ	_							
5 Butterfly Valve (gear box) Ø 6 ° buah Wafer type, PN 10, EPDM Seat, WRAS Rp 4,480.6 6 Butterfly Valve (gear box) Ø 8 ° buah Wafer type, PN 10, EPDM Seat, WRAS Rp 7,731.6 7 Butterfly Valve (gear box) Ø 10 ° buah Wafer type, PN 10, EPDM Seat, WRAS Rp 7,731.6 8 Butterfly Valve (gear box) Ø 10 ° buah Wafer type, PN 10, EPDM Seat, WRAS Rp 11,965.3 9 Butterfly Valve (gear box) Ø 16 ° buah Wafer type, PN 10, EPDM Seat, WRAS Rp 17,794,9 9 Butterfly Valve (gear box) Ø 16 ° buah Wafer type, PN 10, EPDM Seat, WRAS Rp 39,059,7 Rp  IX.7 CECK VALVE  1 Brass Check Valve Ø ½ ° buah JIS B0203, BS-21, atau EN 10242 Rp 147,8 3 Brass Check Valve Ø 1 ° buah JIS B0203, BS-21, atau EN 10242 Rp 147,8 4 Brass Check Valve Ø 11 ° buah JIS B0203, BS-21, atau EN 10242 Rp 425,0 5 Brass Check Valve Ø 2 ° buah JIS B0203, BS-21, atau EN 10242 Rp 553,7 6 Wafer Check Valve Single Door Ø 2 ° buah Cast Iron, Wafer type, Gasket EPDM, Disk SS304 Rp 1,117,8 8 Wafer Check Valve Single Door Ø 4 ° buah Cast Iron, Wafer type, Gasket EPDM, Disk SS304 Rp 2,158.8	1	_							3,805,434
6 Butterfly Valve (gear box) Ø 8 " buah Wafer type, PN 10, EPDM Seat, WRAS Rp 7.731.6 7 Butterfly Valve (gear box) Ø 10 " buah Wafer type, PN 10, EPDM Seat, WRAS Rp 11,965.3 8 Butterfly Valve (gear box) Ø 12 " buah Wafer type, PN 10, EPDM Seat, WRAS Rp 11,794.9 9 Butterfly Valve (gear box) Ø 16 " buah Wafer type, PN 10, EPDM Seat, WRAS Rp 17,794.9  IX.7 CECK VALVE  1 Brass Check Valve	Ì							<u> </u>	4,480,614
7 Butterfly Valve (gear box)	Ì	_							7,731,676
8 Butterfly Valve (gear box) Ø 12 " buah Wafer type, PN 10, EPDM Seat, WRAS Rp 17,794.9 9 Butterfly Valve (gear box) Ø 16 " buah Wafer type, PN 10, EPDM Seat, WRAS Rp 39,059,7 Rp  IX.7 CECK VALVE  1 Brass Check Valve Ø ½ " buah JIS B0203, BS-21, atau EN 10242 Rp 147.8 3 Brass Check Valve Ø 1 " buah JIS B0203, BS-21, atau EN 10242 Rp 147.8 4 Brass Check Valve Ø 1 " buah JIS B0203, BS-21, atau EN 10242 Rp 164.4 4 Brass Check Valve Ø 1½ " buah JIS B0203, BS-21, atau EN 10242 Rp 164.4 5 Brass Check Valve Ø 1½ " buah JIS B0203, BS-21, atau EN 10242 Rp 164.4 6 Brass Check Valve Ø 0 1½ " buah JIS B0203, BS-21, atau EN 10242 Rp 164.4 CB Brass Check Valve Ø 0 1½ " buah JIS B0203, BS-21, atau EN 10242 Rp 164.4 CB Brass Check Valve Ø 0 2 " buah JIS B0203, BS-21, atau EN 10242 Rp 1553.7 CB Wafer Check Valve Single Door Ø 2 " buah Cast Iron, Wafer type, Gasket EPDM, Disk SS304 Rp 1.117.9 CB Wafer Check Valve Single Door Ø 4 " buah Cast Iron, Wafer type, Gasket EPDM, Disk SS304 Rp 1.342.3 CB Wafer Check Valve Single Door Ø 4 " buah Cast Iron, Wafer type, Gasket EPDM, Disk SS304 Rp 2.158.8	Ì								11,965,305
9 Butterfly Valve (gear box) Ø 16 ° buah Wafer type, PN 10, EPDM Seat, WRAS Rp 39,059,7  Rp  IX.7 CECK VALVE  1 Brass Check Valve Ø ½ ° buah JIS B0203, BS-21, atau EN 10242 Rp 147,8 3 Brass Check Valve Ø 1 ° buah JIS B0203, BS-21, atau EN 10242 Rp 147,8 4 Brass Check Valve Ø 1 ° buah JIS B0203, BS-21, atau EN 10242 Rp 147,8 5 Brass Check Valve Ø 1 ° buah JIS B0203, BS-21, atau EN 10242 Rp 164,4 6 Brass Check Valve Ø 1 ° buah JIS B0203, BS-21, atau EN 10242 Rp 164,4 6 Brass Check Valve Ø 2 ° buah JIS B0203, BS-21, atau EN 10242 Rp 425,0 6 Wafer Check Valve Single Door Ø 2 ° buah Cast Iron, Wafer type, Gasket EPDM, Disk SS304 Rp 1,342,3 8 Wafer Check Valve Single Door Ø 4 ° buah Cast Iron, Wafer type, Gasket EPDM, Disk SS304 Rp 2,158,8		_							17,794,935
Rp   IX.7   CECK VALVE   Rp		_							39,059,728
1   Brass Check Valve   Ø 1½ "   buah   JIS B0203, BS-21, atau EN 10242   Rp 102,5     2   Brass Check Valve   Ø 3¼ "   buah   JIS B0203, BS-21, atau EN 10242   Rp 147,8     3   Brass Check Valve   Ø 1 "   buah   JIS B0203, BS-21, atau EN 10242   Rp 147,8     4   Brass Check Valve   Ø 1½ "   buah   JIS B0203, BS-21, atau EN 10242   Rp 164,4     5   Brass Check Valve   Ø 1½ "   buah   JIS B0203, BS-21, atau EN 10242   Rp 425,0     5   Brass Check Valve   Ø 2 "   buah   JIS B0203, BS-21, atau EN 10242   Rp 553,7     6   Wafer Check Valve Single Door   Ø 2 "   buah   Cast Iron, Wafer type, Gasket EPDM, Disk SS304   Rp 1,017,9     7   Wafer Check Valve Single Door   Ø 4 "   buah   Cast Iron, Wafer type, Gasket EPDM, Disk SS304   Rp 1,342,3     8   Wafer Check Valve Single Door   Ø 4 "   buah   Cast Iron, Wafer type, Gasket EPDM, Disk SS304   Rp 2,158,8     Rp 2,158,8   Wafer Check Valve Single Door   Ø 4 "   buah   Cast Iron, Wafer type, Gasket EPDM, Disk SS304   Rp 2,158,8     Rp 2,158,8   Wafer Check Valve Single Door   Ø 4 "   buah   Cast Iron, Wafer type, Gasket EPDM, Disk SS304   Rp 2,158,8	Ì		· · ·			•			
2     Brass Check Valve     Ø     ¼ "     buah     JIS B0203, BS-21, atau EN 10242     Rp     147.8       3     Brass Check Valve     Ø     1 "     buah     JIS B0203, BS-21, atau EN 10242     Rp     164.4       4     Brass Check Valve     Ø     1½ "     buah     JIS B0203, BS-21, atau EN 10242     Rp     425.0       5     Brass Check Valve     Ø     2 "     buah     JIS B0203, BS-21, atau EN 10242     Rp     587.7       6     Wafer Check Valve Single Door     Ø     2 "     buah     JIS B0203, BS-21, atau EN 10242     Rp     583.7       7     Wafer Check Valve Single Door     Ø     2 "     buah     Cast Iron, Wafer type, Gasket EPDM, Disk SS304     Rp     1.117.9       8     Wafer Check Valve Single Door     Ø     4 "     buah     Cast Iron, Wafer type, Gasket EPDM, Disk SS304     Rp     2.158.8	IX.7	CECH	( VALVE						-
3     Brass Check Valve     Ø     1 "     buah     JIS 80203, BS-21, atau EN 10242     Rp     164.4       4     Brass Check Valve     Ø     1½"     buah     JIS 80203, BS-21, atau EN 10242     Rp     425.0       5     Brass Check Valve     Ø     2"     buah     JIS 80203, BS-21, atau EN 10242     Rp     553.7       6     Wafer Check Valve Single Door     Ø     2"     buah     Cast Iron, Wafer type, Gasket EPDM, Disk SS304     Rp     1,1017.9       7     Wafer Check Valve Single Door     Ø     3"     buah     Cast Iron, Wafer type, Gasket EPDM, Disk SS304     Rp     1,342.3       8     Wafer Check Valve Single Door     Ø     4"     buah     Cast Iron, Wafer type, Gasket EPDM, Disk SS304     Rp     2,158.8		1	Brass Check Valve	Ø	1/2 "	buah	JIS B0203, BS-21, atau EN 10242	Rp	102,574
4     Brass Check Valve     Ø     1½ "     buah     JIS B0203, BS-21, atau EN 10242     Rp     425,0       5     Brass Check Valve     Ø     2 "     buah     JIS B0203, BS-21, atau EN 10242     Rp     553,7       6     Wafer Check Valve Single Door     Ø     2 "     buah     Cast Iron, Wafer type, Gasket EPDM, Disk SS304     Rp     1,017,9       7     Wafer Check Valve Single Door     Ø     3 "     buah     Cast Iron, Wafer type, Gasket EPDM, Disk SS304     Rp     1,342,3       8     Wafer Check Valve Single Door     Ø     4 "     buah     Cast Iron, Wafer type, Gasket EPDM, Disk SS304     Rp     2,158,8	Ì	2	Brass Check Valve	Ø	3/4 "	buah	JIS B0203, BS-21, atau EN 10242	Rp	147,866
5         Brass Check Valve         Ø         2 "         buah         JIS B0203, BS-21, atau EN 10242         Rp         553,7           6         Wafer Check Valve Single Door         Ø         2 "         buah         Cast Iron, Wafer type, Gasket EPDM, Disk SS304         Rp         1,017,9           7         Wafer Check Valve Single Door         Ø         3 "         buah         Cast Iron, Wafer type, Gasket EPDM, Disk SS304         Rp         1,342,3           8         Wafer Check Valve Single Door         Ø         4 "         buah         Cast Iron, Wafer type, Gasket EPDM, Disk SS304         Rp         2,158,8		3	Brass Check Valve	Ø	1"	buah	JIS B0203, BS-21, atau EN 10242	Rp	164,432
6 Wafer Check Valve Single Door Ø 2 " buah Cast Iron, Wafer type, Gasket EPDM, Disk SS304 Rp 1.017.9 7 Wafer Check Valve Single Door Ø 3 " buah Cast Iron, Wafer type, Gasket EPDM, Disk SS304 Rp 1.342.3 8 Wafer Check Valve Single Door Ø 4 " buah Cast Iron, Wafer type, Gasket EPDM, Disk SS304 Rp 2.168.8	Ì	4	Brass Check Valve	Ø	11/2 "	buah	JIS B0203, BS-21, atau EN 10242	Rp	425,063
7 Wafer Check Valve Single Door Ø 3 buah Cast Iron, Wafer type, Gasket EPDM, Disk SS304 Rp 1,342,3 8 Wafer Check Valve Single Door Ø 4 buah Cast Iron, Wafer type, Gasket EPDM, Disk SS304 Rp 2,158,8	Ì	5	Brass Check Valve	Ø	2 "	buah	JIS B0203, BS-21, atau EN 10242	Rp	553,701
8 Wafer Check Valve Single Door Ø 4" buah Cast Iron, Wafer type, Gasket EPDM, Disk SS304 Rp 2,158,8	Ì	6	Wafer Check Valve Single Door	Ø	2 "	buah	Cast Iron, Wafer type, Gasket EPDM, Disk SS304	Rp	1,017,915
	Ì	7	Wafer Check Valve Single Door	Ø		buah	Cast Iron, Wafer type, Gasket EPDM, Disk SS304	Rp	1,342,305
9   Wafer Check Valve Single Door Ø 6 " buah   Cast Iron, Wafer type, Gasket EPDM, Disk SS304   Rp 3,478.8	Ì	8	Wafer Check Valve Single Door	Ø	4 "	buah	Cast Iron, Wafer type, Gasket EPDM, Disk SS304	Rp	2,158,874
		9	Wafer Check Valve Single Door	Ø	6 "	buah	Cast Iron, Wafer type, Gasket EPDM, Disk SS304	Rp	3,478,807

		DAF	TAR STANDAR S	ATUAN I	HARGA PIPA 8	k AKSESORIS 2022-2023		
NO		NAMA	BARANG		SATUAN	SPESIFIKASI	н	ARGA 2023
	10	Wafer Check Valve Single Door	Ø	8 "	buah	Cast Iron, Wafer type, Gasket EPDM, Disk SS304	Rp	5,290,918
		Wafer Check Valve Single Door	Ø	10 "	buah	Cast Iron, Wafer type, Gasket EPDM, Disk 53304  Cast Iron, Wafer type, Gasket EPDM, Disk SS304	Rp	9,463,249
		Wafer Check Valve Single Door	Ø	12 "	buah	Cast Iron, Wafer type, Gasket EPDM, Disk SS304	Rp	12,673,595
	_	Wafer Check Valve Single Door	Ø	14"	buah	Cast Iron, Wafer type, Gasket EPDM, Disk SS304	Rp	22,707,323
		Wafer Check Valve Single Door	Ø	16 "	buah	Cast Iron, Wafer type, Gasket EPDM, Disk SS304	Rp	28,445,677
		Wafer Check Valve Single Door	Ø	20 "	buah	Cast Iron, Wafer type, Gasket EPDM, Disk SS304	Rp	46,577,978
		Wafer Check Valve Single Door	Ø	24 "	buah	Cast Iron, Wafer type, Gasket EPDM, Disk SS304	Rp	74,643,335
	17	Wafer Check Valve Dual Plate	Ø	2 "	buah	Cast Iron, Wafer type, Gasket EPDM, Disk SS304	Rp	1,051,472
		Wafer Check Valve Dual Plate	Ø	3 "	buah	Cast Iron, Wafer type, Gasket EPDM, Disk SS304	Rp	1,521,279
	19	Wafer Check Valve Dual Plate	Ø	4 "	buah	Cast Iron, Wafer type, Gasket EPDM, Disk SS304	Rp	1,879,227
	20	Wafer Check Valve Dual Plate	Ø	6 "	buah	Cast Iron, Wafer type, Gasket EPDM, Disk SS304	Rp	3,747,268
	_	Wafer Check Valve Dual Plate	Ø	8 "	buah	Cast Iron, Wafer type, Gasket EPDM, Disk SS304	Rp	6,252,903
	22	Wafer Check Valve Dual Plate	Ø	10 "	buah	Cast Iron, Wafer type, Gasket EPDM, Disk SS304	Rp	9,116,487
		Wafer Check Valve Dual Plate	Ø	12 "	buah	Cast Iron, Wafer type, Gasket EPDM, Disk SS304	Rp	12,349,204
	24	Wafer Check Valve Dual Plate	Ø	14"	buah	Cast Iron, Wafer type, Gasket EPDM, Disk SS304	Rp	22,002,613
	25	Wafer Check Valve Dual Plate	Ø	16 "	buah	Cast Iron, Wafer type, Gasket EPDM, Disk SS304	Rp	33,826,082
	26	Wafer Check Valve Dual Plate	Ø	20 "	buah	Cast Iron, Wafer type, Gasket EPDM, Disk SS304	Rp	51,399,089
	27	Wafer Check Valve Dual Plate	Ø	24 "	buah	Cast Iron, Wafer type, Gasket EPDM, Disk SS304	Rp	70,951,996
	28	Swing Check Valve All Flange	Ø	6 "	buah	Flange EN 1092, Cast Iron	Rp	7,729,439
	29	Swing Check Valve All Flange	Ø	8 "	buah	Flange EN 1092, Cast Iron	Rp	13,389,49
		Swing Check Valve All Flange	Ø	10 "	buah	Flange EN 1092, Cast Iron	Rp	20,783,35
		Swing Check Valve All Flange	Ø	12 "	buah	Flange EN 1092, Cast Iron	Rp	25,582,093
		Swing Check Valve All Flange	Ø	14"	buah	Flange EN 1092, Cast Iron	Rp	56,030,04
	_	Swing Check Valve All Flange	Ø	16 "	buah	Flange EN 1092, Cast Iron	Rp	74,162,342
		*					Rp	
IX.8	AIR \	/ALVE					Rp	
	_	Combination Air Valve	Ø	2 "	buah	Body DCI, Flange Conection, PN 16	Rp	22,765,490
		Combination Air Valve	Ø	3"	buah	Body DCI, Flange Conection, PN 16	Rp	29,333,835
		Combination Air Valve	Ø	4 "	buah	Body DCI, Flange Conection, PN 16	Rp	38,677,395
		Combination Air Valve	Ø	6 "	buah	Body DCI, Flange Conection, PN 16	Rp	61,680,026
		Brass air vent	Ø	1/2 "	buah	Body Brass, Thread Conection, PN 16	Rp	117,452
		Brass air vent	Ø	3/4 "	buah	Body Brass, Thread Conection, PN 16	Rp	134,230
	10	Brass air vent	Ø	1 "	buah	Body Brass, Thread Conection, PN 16	Rp	173,381
	11	Single Orifice Air Valve	Ø	2 "	buah	Body Cast Iron, Flange Conection, PN 16, ABS Float	Rp	3,400,506
	12	Single Orifice Air Valve	Ø	3 "	buah	Body Cast Iron, Flange Conection, PN 16, ABS Float	Rp	4,429,606
	13	Single Orifice Air Valve	Ø	4 "	buah	Body Cast Iron, Flange Conection, PN 16, ABS Float	Rp	6,297,647
	14	Double Orifice Air Valve	Ø	2 "	buah	Body Cast Iron, Flange Conection, PN 16, ABS Float	Rp	3,780,825
	15	Double Orifice Air Valve	Ø	3 "	buah	Body Cast Iron, Flange Conection, PN 16, ABS Float	Rp	5,100,758
	16	Double Orifice Air Valve	Ø	4 "	buah	Body Cast Iron, Flange Conection, PN 16, ABS Float	Rp	6,991,171
							Rp	-
IX.9	F001	VALVE					Rp	-
	1	Foot Valve	Ø	2 "	buah	Cast Iron, Flange EN 1092, SS304	Rp	1,085,030
	2	Foot Valve	Ø	3 "	buah	Cast Iron, Flange EN 1092, SS304	Rp	1,655,509
	3	Foot Valve	Ø	4 "	buah	Cast Iron, Flange EN 1092, SS304	Rp	2,270,732
	4	Foot Valve	Ø	6 "	buah	Cast Iron, Flange EN 1092, SS304	Rp	4,273,004
	5	Foot Valve	Ø	8 "	buah	Cast Iron, Flange EN 1092, SS304	Rp	6,437,470
	6	Foot Valve	Ø	10 "	buah	Cast Iron, Flange EN 1092, SS304	Rp	9,709,338
	9	Foot Valve	Ø	12 "	buah	Cast Iron, Flange EN 1092, SS304	Rp	13,646,766
	10	Foot Valve	Ø	14 "	buah	Cast Iron, Flange EN 1092, SS304	Rp	20,917,584
	11	Foot Valve	Ø	16 "	buah	Cast Iron, Flange EN 1092, SS304	Rp	25,951,227
	12	Foot Valve	Ø	18 "	buah	Cast Iron, Flange EN 1092, SS304	Rp	57,607,249
							Rp	-
IX.10	_	ET BOX				T	Rp	
	1	Street Box	Ø	6 "	buah	Cast Iron	Rp	323,272
							_	
IX.11	_	END CAP, PLOEG						
		Dop PVC	Ø	2 "	buah	SNI 06.0135.1987	Rp	22,867
		Dop PVC	Ø	3 "	buah	SNI 06.0135.1987	Rp	48,592
		Dop PVC	Ø	4 "	buah	SNI 06.0135.1987	Rp	91,181
	_	Dop PVC	Ø	6"	buah	SNI 06.0135.1987	Rp	179,074
	_	Dop PVC	Ø	8 "	buah	SNI 06.0135.1987	Rp	379,729
		Dop GI	Ø	1/2 "	buah	SNI 0139 : 2008, ISO 7-1	Rp	5,992
		Dop GI	Ø	3/4 " 1 "	buah	SNI 0139 : 2008, ISO 7-1	Rp	6,938
		Dop GI			buah	SNI 0139 : 2008, ISO 7-1	Rp	10,088
		Dop GI	Ø	11/2 "	buah	SNI 0139 : 2008, ISO 7-1 SNI 0139 : 2008, ISO 7-1	Rp Rn	19,906
		Dop GI End Cap HDPE	Ø	2"	buah buah	SNI 4829.2.2015	Rp Rp	96,462
		End Cap HDPE	Ø	3"	-	SNI 4829.2.2015 SNI 4829.2.2015	Rp	196,852
	_	End Cap HDPE	Ø	4"	buah buah	SNI 4829.2.2015 SNI 4829.2.2015	Rp	310,203
		End Cap HDPE	Ø	6"	buah	SNI 4829.2.2015 SNI 4829.2.2015	Rp	617,622
		End Cap HDPE	Ø	8 "	buah	SNI 4829.2.2015 SNI 4829.2.2015	Rp	1,041,674
	_	End Cap HDPE	Ø	10 "	buah	SNI 4829.2.2015 SNI 4829.2.2015	Rp	1,627,469
		End Cap HDPE	Ø	12 "	buah	SNI 4829.2.2015 SNI 4829.2.2015	Rp	3,014,29
	_	End Cap HDPE	Ø	14 "	buah	SNI 4829.2.2015 SNI 4829.2.2015	Rp	4,594,188
		End Cap HDPE	Ø	16 "	buah	SNI 4829.2.2015	Rp	5,249,378
	_	End Cap HDPE	Ø	20 "	buah	SNI 4829.2.2015	Rp	8,202,154
	_	End Cap HDPE	Ø	24 "	buah	SNI 4829.2.2015	Rp	16,277,174
	_	End Cap HDPE	Ø	30 "	buah	SNI 4829.2.2015	Rp	34,995,856
	_	Ploeg GI	Ø	1/2 "	buah	SNI 0139 : 2008, ISO 7-1	Rp	6,183
		Ploeg GI	Ø	3/4 "	buah	SNI 0139 : 2008, ISO 7-1	Rp	7,500
		Ploeg GI	Ø	1"	buah	SNI 0139 : 2008, ISO 7-1	Rp	10,582
	_	Ploeg GI	Ø	11/2 "	buah	SNI 0139 : 2008, ISO 7-1	Rp	20,289
		Dop Push on	Ø	1/2 "	buah	ISO 14236.2000	Rp	12,899
	_	Dop Push on	Ø	3/4 "	buah	ISO 14236.2000	Rp	18,48
		Dop Push on	Ø	1"	buah	ISO 14236.2000	Rp	23,00
						•	1	
IX.12	TEE						+	
	_	Tee PVC	Ø	2 "	buah	SNI 06.0135.1987	Rp	69,408
		Tee PVC	Ø	3 "	buah	SNI 06.0135.1987	Rp	140,43
	_	Tee PVC	Ø	4 "	buah	SNI 06.0135.1987	Rp	231,524
		Tee PVC	Ø	6 "	buah	SNI 06.0135.1987	Rp	525,062
					•			

- 1		DAI TAK STAK	DAK SA	IUAN HAKGA		k AKSESORIS 2022-2023		
1		NAMA BARANG			SATUAN	SPESIFIKASI	HAR	RGA 2023
	_	Tee PVC	Ø	8 "	buah	SNI 06.0135.1987	Rp	1,333,4
_	_	Tee PVC Tee Reducer PVC	Ø	10 " 3 x 2 "	buah buah	SNI 06.0135.1987 SNI 06.0135.1987	Rp Rp	1,467,9 148,3
_	_	Tee Reducer PVC	Ø	4 x 2 "	buah	SNI 06.0135.1987	Rp	245,0
	9	Tee Reducer PVC	Ø	4 x 3 "	buah	SNI 06.0135.1987	Rp	268,7
_	_	Tee Reducer PVC	Ø	6 x 2 "	buah	SNI 06.0135.1987	Rp	460,3
-	_	Tee Reducer PVC	Ø	6 x 3 "	buah	SNI 06.0135.1987	Rp	527, 578,
_	_	Tee Reducer PVC Tee Reducer PVC	Ø	6 x 4 " 8 x 2 "	buah buah	SNI 06.0135.1987 SNI 06.0135.1987	Rp Rp	1,273,
_	_	Tee Reducer PVC	Ø	8 x 3 "	buah	SNI 06.0135.1987	Rp	1,369,
	15	Tee Reducer PVC	Ø	8 x 4 "	buah	SNI 06.0135.1987	Rp	1,479
_		Tee Reducer PVC	Ø	8 x 6 "	buah	SNI 06.0135.1987	Rp	1,543
_	_	Tee Reducer PVC	Ø	10 x 3 "	buah	SNI 06.0135.1987	Rp	3,073
_	_	Tee Reducer PVC Tee Reducer PVC	Ø	10 x 4 " 10 x 6 "	buah buah	SNI 06.0135.1987 SNI 06.0135.1987	Rp Rp	3,439 2,588
_	_	Tee Reducer PVC	Ø	10 x 8 "	buah	SNI 06.0135.1987	Rp	2,790
_	_	Tee HDPE	Ø	2 "	buah	SNI 4829.2.2015, Segmented	Rp	200
_	_	Tee HDPE	Ø	3 "	buah	SNI 4829.2.2015, Segmented	Rp	319
-	_	Tee HDPE	Ø	4 "	buah	SNI 4829.2.2015, Segmented	Rp	442
-	_	Tee HDPE Tee HDPE	Ø	8"	buah buah	SNI 4829.2.2015, Segmented SNI 4829.2.2015, Segmented	Rp Rp	1,222
_	_	Tee HDPE	Ø	10 "	buah	SNI 4829.2.2015, Segmented	Rp	2,046
	27	Tee HDPE	Ø	12 "	buah	SNI 4829.2.2015, Segmented	Rp	3,110
	_	Tee HDPE	Ø	14 "	buah	SNI 4829.2.2015, Segmented	Rp	5,322
- 1	_	Tee HDPE	Ø	16 "	buah	SNI 4829.2.2015, Segmented	Rp	7,140
-	_	Tee HDPE Tee HDPE	Ø	20 "	buah buah	SNI 4829.2.2015, Segmented SNI 4829.2.2015, Segmented	Rp Rp	12,149
-	_	Tee Reducer HDPE	Ø	3 x 2 "	buah	SNI 4829.2.2015, Segmented SNI 4829.2.2015, Segmented	Rp Rp	22,73
_	_	Tee Reducer HDPE	Ø	4 x 2 "	buah	SNI 4829.2.2015, Segmented	Rp	33
	_	Tee Reducer HDPE	Ø	4 x 3 "	buah	SNI 4829.2.2015, Segmented	Rp	33
_	_	Tee Reducer HDPE	Ø	6 x 2 "	buah	SNI 4829.2.2015, Segmented	Rp	1,08
_	_	Tee Reducer HDPE Tee Reducer HDPE	Ø	6 x 3 "	buah buah	SNI 4829.2.2015, Segmented SNI 4829.2.2015, Segmented	Rp Rp	95
-	_	Tee Reducer HDPE	Ø	8 x 2 "	buah	SNI 4829.2.2015, Segmented SNI 4829.2.2015, Segmented	Rp	1,55
-	_	Tee Reducer HDPE	Ø	8 x 3 "	buah	SNI 4829.2.2015, Segmented	Rp	1,55
	40	Tee Reducer HDPE	Ø	8 x 4 "	buah	SNI 4829.2.2015, Segmented	Rp	1,418
	41	Tee Reducer HDPE	Ø	8 x 6 "	buah	SNI 4829.2.2015, Segmented	Rp	1,29
	_	Tee Reducer HDPE	Ø	10 x 4 "	buah	SNI 4829.2.2015, Segmented	Rp	2,42
-	_	Tee Reducer HDPE Tee Reducer HDPE	Ø	10 x 6 "	buah buah	SNI 4829.2.2015, Segmented SNI 4829.2.2015, Segmented	Rp Rp	2,27
-	-	Tee Reducer HDPE	Ø	12 x 6 "	buah	SNI 4829.2.2015, Segmented	Rp	4,15
_	_	Tee Reducer HDPE	Ø	12 x 8 "	buah	SNI 4829.2.2015, Segmented	Rp	3,813
	47	Tee Reducer HDPE	Ø	12 x 10 "	buah	SNI 4829.2.2015, Segmented	Rp	3,747
-	_	Tee Reducer HDPE	Ø	14 x 6 "	buah	SNI 4829.2.2015, Segmented	Rp	6,860
_	_	Tee Reducer HDPE	Ø	14 x 8 "	buah	SNI 4829.2.2015, Segmented	Rp	6,443
_	_	Tee Reducer HDPE Tee Reducer HDPE	Ø	14 x 10 " 14 x 12 "	buah buah	SNI 4829.2.2015, Segmented SNI 4829.2.2015, Segmented	Rp Rp	6,028 5.960
-	_	Tee Reducer HDPE	Ø	16 x 6 "	buah	SNI 4829.2.2015, Segmented	Rp	8,650
_	53	Tee Reducer HDPE	Ø	16 x 8 "	buah	SNI 4829.2.2015, Segmented	Rp	5,44
	54	Tee Reducer HDPE	Ø	16 x 10 "	buah	SNI 4829.2.2015, Segmented	Rp	7,75
		Tee Reducer HDPE	Ø	16 x 12 "	buah	SNI 4829.2.2015, Segmented	Rp	7,66
H	56	Tee Reducer HDPE Tee Reducer HDPE	Ø	16 x 14 "		SNI 4829.2.2015, Segmented	Rp	7,61
_	_	Tee Reducer HDPE	Ø	20 x 8 " 20 x 10 "	buah buah	SNI 4829.2.2015, Segmented SNI 4829.2.2015, Segmented	Rp Rp	15,52
_	_	Tee Reducer HDPE	Ø	20 x 12 "	buah	SNI 4829.2.2015, Segmented	Rp	13,64
	60	Tee Reducer HDPE	Ø	20 x 14 "	buah	SNI 4829.2.2015, Segmented	Rp	13,50
_	_	Tee Reducer HDPE	Ø	20 x 16 "	buah	SNI 4829.2.2015, Segmented	Rp	13,33
-	_	Tee Reducer HDPE	Ø	24 x 10 " 24 x 12 "	buah	SNI 4829.2.2015, Segmented	Rp	28,80
_	_	Tee Reducer HDPE Tee Reducer HDPE	Ø	24 x 14 "	buah buah	SNI 4829.2.2015, Segmented SNI 4829.2.2015, Segmented	Rp Rp	27,36
-	_	Tee Reducer HDPE	Ø	24 x 16 "	buah	SNI 4829.2.2015, Segmented	Rp	27,30
	66	Tee Reducer HDPE	Ø	24 x 20 "	buah	SNI 4829.2.2015, Segmented	Rp	23,89
_	_	Tee GI	Ø	1/2"	buah	SNI 0139 : 2008, ISO 7-1	Rp	1
_	_	Tee GI	Ø	3/4"	buah	SNI 0139 : 2008, ISO 7-1	Rp	1
_	_	Tee GI Tee GI	Ø	1"	buah buah	SNI 0139 : 2008, ISO 7-1 SNI 0139 : 2008, ISO 7-1	Rp Rp	4
-	_	Tee GI	Ø	2"	buah	SNI 0139 : 2008, ISO 7-1 SNI 0139 : 2008, ISO 7-1	Rp	6
	72	Tee Reducer GI	Ø	3/4" x 1/2"	buah	SNI 0139 : 2008, ISO 7-1	Rp	1
_		Tee Reducer GI	Ø	1" x ½"	buah	SNI 0139 : 2008, ISO 7-1	Rp	2
_	_	Tee Reducer GI	Ø	1" x ¾"	buah	SNI 0139 : 2008, ISO 7-1	Rp	2
_	_	Tee Reducer GI Tee Reducer GI	Ø	1½" x ½" 1½" x ¾"	buah buah	SNI 0139 : 2008, ISO 7-1 SNI 0139 : 2008, ISO 7-1	Rp Rp	5
_	_	Tee Reducer GI	Ø	1½" x 1"	buah	SNI 0139 : 2008, ISO 7-1 SNI 0139 : 2008, ISO 7-1	Rp	5
_	_	Tee Reducer GI	Ø	2" x ½"	buah	SNI 0139 : 2008, ISO 7-1	Rp	7
-	_	Tee Reducer GI	Ø	2" x ¾"	buah	SNI 0139 : 2008, ISO 7-1	Rp	7
-	_	Tee Reducer GI	Ø	2" x 1"	buah	SNI 0139 : 2008, ISO 7-1	Rp	7
	_	Tee Reducer GI	Ø	2 x 1½"	buah	SNI 0139 : 2008, ISO 7-1	Rp Rn	7
_	_	Tee Steel Butt Welding Tee Steel Butt Welding	Ø	3"	buah buah	ASTM A53, Sch 40 ASTM A53, Sch 40	Rp Rp	18
_	_	Tee Steel Butt Welding	Ø	4 "	buah	ASTM A53, Sch 40	Rp	29
		Tee Steel Butt Welding	Ø	6 "	buah	ASTM A53, Sch 40	Rp	64
_	_	Tee Steel Butt Welding	Ø	8 "	buah	ASTM A53, Sch 40	Rp	1,09
_	_	Tee Steel Butt Welding	Ø	10 "	buah	ASTM A53, Sch 40	Rp	1,82
		Tee Steel Butt Welding	Ø	12 "	buah	ASTM A53, Sch 40	Rp Rp	2,93
_	_	Tee Steel Butt Welding Tee Steel Butt Welding	Ø	14 "	buah buah	ASTM A53, Sch 40 ASTM A53, Sch 40	Rp Rp	3,99 5,11
-		Tee Steel Butt Welding	Ø	18 "	buah	ASTM A53, Sch 40 ASTM A53, Sch 40	Rp Rp	10,38
		Tee Steel Butt Welding	Ø	20 "	buah	ASTM A53, Sch 40	Rp	11,27
_	_	Tee Steel Butt Welding	Ø	22 "	buah	ASTM A53, Sch 40	Rp	21,21
Г		Tee Reducer Steel Butt Welding	Ø	3 x 2 "	buah	ASTM A53, Sch 40	Rp	6
		Tee Reducer Steel Butt Welding	Ø	4 x 2 "	buah	ASTM A53, Sch 40	Rp	17

A			DAFTAR STANI	DAR SA	TUAN HARGA	PIPA 8	AKSESORIS 2022-2023		
December 2014   December 201	NO		NAMA BARANG			SATUAN	SPESIFIKASI	НАГ	RGA 2023
State		96	Tee Reducer Steel Butt Welding	Ø	4 x 3 "	buah	ASTM A53, Sch 40	Rp	174,762
State   Teacher and and containing   State	[	97	Tee Reducer Steel Butt Welding	Ø	6 x 2 "	buah	ASTM A53, Sch 40	Rp	559,238
100   Section of the content of th	ļ								559,238
Section   Company   Comp	-								559,238 978,666
100   Institution that introducing   0   16 ± 5   1   1   1   1   1   1   1   1   1	-								978,666
The Process Note that Workshop									978,666
Description   Proceedings   Process   Proces	-								978,666
Description   Proceedings   Company   Compan		104	Tee Reducer Steel Butt Welding	Ø	10 x 3 "	buah	ASTM A53, Sch 40	Rp	1,444,698
Description   Company		105	Tee Reducer Steel Butt Welding	Ø	10 x 4 "	buah	ASTM A53, Sch 40	Rp	1,444,698
10   Teal Plangs C	ļ	_							1,537,904
Dec   Property   Company   Company	-								1,537,904
Time And Homey CT	-								7,703,260
Time   Mil Timeger	-								18,057,106
11   See AM Florage CT									19,373,194
The Sea Aff Purigin CT	-		•						29,059,792
11   12   Fan Reduce All Parague C	[	113	Tee All Flange CI	Ø	20 "	buah	Cast Iron GGG 50	Rp	41,364,76
10   10   10   10   10   10   10   10	Į	114	Tee All Flange Cl			buah	Cast Iron GGG 50		66,678,762
The Personnel All Propriet Cl									4,256,580
The Periodic All Florage C	-		-						4,347,694
11   12   No. Recision of Rifuger CI	-								4,505,073 7,132,649
120   Ter Reducer All Forger CI	-		,						7,132,649
12   The Reduce All Flarge CI	ŀ		,						9,663,589
12   12   12   12   12   13   13   13	ŀ		,						10,330,836
12.4   Fee Reducer All Frange C	ŀ			Ø					10,652,956
12.5   No Reduce All Farage C	[	123	Tee Reducer All Flange Cl		12 x 6 "	buah	Cast Iron GGG 50	Rp	12,516,648
12   See Reduce AV Rings C	-								12,516,648
12   Tele Reducer All Tange C	ļ								16,428,100
Togs   Tee Residuer All Flanger CT	ļ		-						18,942,474
137   Tex Reduce All Filongs C									19,304,169
State   Content of History Con									23,266,240
137   Tex Reducer All Florage C	ŀ								26,800,352
32   Ten Reducer Aff Eming C	-			Ø	16 x 12 "			Rp	28,677,850
Staff Fee Reducer All Fillings C1		132	Tee Reducer All Flange CI	Ø	16 x 14 "	buah	Cast Iron GGG 50	Rp	28,921,740
State Residence Aff Harrage Cl			-		20 x 8 "	buah	Cast Iron GGG 50	Rp	34,209,104
1375   Tea Reducer All Printings C									35,640,236
131 Ten Reducer All Range Cl									36,740,044
133   Ten Reduce All Hange C	-	_	,						38,898,245 49,468,371
130   Tee Reducer All Flange CI	-								56,656,240
140   Teen Declacer All Planges CI	-								62,698,284
142   Equal the Push on	-			Ø					65,114,182
143		141	Equal tee Push on	Ø	1/2"	buah	ISO 14236.2000	Rp	25,797
March   Reducer tee Push on   0   M** N/*   bush   ISO 1423-2000   Reducer tee Push on   0   N** N/*   bush   ISO 1423-2000   Reducer tee Push on   0   N** N/*   bush   ISO 1423-2000   Reducer tee Push on   0   N**   bush   ISO 1423-2000   Reducer tee Push on   0   N**   bush   ISO 1423-2000   Reducer tee Push on   Reducer tee Push on   0   N**   bush   ISO 1423-2000   Fastic Trivead   Reducer tee Push on (Tee draft tuan)   0   N**   bush   ISO 1423-2000   Fastic Trivead   Reducer tee Push on (Tee draft tuan)   0   N**   bush   ISO 1423-2000   Fastic Trivead   Reducer tee Push on (Tee draft dalam)   0   N**   bush   ISO 1423-2000   Fastic Trivead   Reducer tee Push on (Tee draft dalam)   0   N**   bush   ISO 1423-2000   Fastic Trivead   Reducer tee Push on (Tee draft dalam)   0   N**   bush   ISO 1423-2000   Fastic Trivead   Reducer tee Push on (Tee draft tuan)   0   N**   bush   ISO 1423-2000   Fastic Trivead   Reducer tee Push on (Tee draft tuan)   0   N**   bush   ISO 1423-2000   Fastic Trivead   Reducer tee Push on (Tee draft tuan)   0   N**   bush   ISO 1423-2000   Fastic Trivead   Reducer tee Push on (Tee draft tuan)   0   N**   bush   ISO 1423-2000   Fastic Trivead   Reducer tee Push on (Tee draft tuan)   0   N**   bush   ISO 1423-2000   Fastic Trivead   Reducer tee Push on (Tee draft tuan)   0   N**   bush   ISO 1423-2000   Fastic Trivead   Reducer tee Push on (Tee draft dalam)   0   N**   bush   ISO 1423-2000   Fastic Trivead   Reducer tee Push on (Tee draft dalam)   0   N**   bush   ISO 1423-2000   Fastic Trivead   Reducer tee Push on (Tee draft dalam)   0   N**   bush   ISO 1423-2000   Fastic Trivead   Reducer tee Push on (Tee draft dalam)   0   N**   bush   ISO 1423-2000   Fastic Trivead   Reducer tee Push on (Tee draft dalam)   0   N**   bush   ISO 1423-2000   Fastic Trivead   Reducer tee Push   T		142	Equal tee Push on	Ø	3/4"	buah	ISO 14236.2000	Rp	33,377
146   Beducer tee Push on   0	ļ								44,679
146   Reducer tee Push on (Tee drat bain)	-								37,632
147   Male tee Push on (Fee drat bar)	-								45,743 48,669
148   Male tee Fush on (Tee draf sluan)	-			~				-	35,770
149   Fernale tee Push on (Tee drat dalam)									42,153
151 Female tee Push on (Tee drat dalam)	F			Ø	1/2"	buah	ISO 14236.2000, Plastic Thread	Rp	29,121
152 Male tee Push on (Tee drat luar)	[	150	Female tee Push on (Tee drat dalam)	Ø	3/4"	buah	ISO 14236.2000, Plastic Thread	Rp	31,515
153 Male tee Push on (Tee drat luar)		151	Female tee Push on (Tee drat dalam)	Ø	1"	buah	ISO 14236.2000, Plastic Thread	Rp	58,110
154   Female tee Push on (Tee drat dalam)									50,530
155   Female tee Push on (Tee drat dalam)	ļ								59,041
IX.13   FANGE SOCKET PVC	}								43,882 51,328
1   Flange Socket PVC (SCI)	ŀ	100	remaie tee rusii on (ree tiidt tididill)	<sub>N</sub>	79	DUAN	130 14230.2000, Flastic Hilledu	(A)	31,328
1   Flange Socket PVC (SCI)	IX.13	FLAN	IGE SOCKET PVC					<b>—</b>	
2   Flange Socket PVC (SCI)				Ø	2 "	buah	SNI 06.0135.1987	Rp	189,364
4   Flange Socket PVC (SCI)		2	Flange Socket PVC (SCJ)			buah			228,666
5 Flange Socket PVC (SCJ)         Ø         8 "         buah         SNI 06.0135.1987         Rp           6 Flange Socket PVC (SCJ)         Ø         10 "         buah         SNI 06.0135.1987         Rp           7 Flange Socket PVC (RRJ)         Ø         2 "         buah         SNI 06.0135.1987         Rp           8 Flange Socket PVC (RRJ)         Ø         3 "         buah         SNI 06.0135.1987         Rp           10 Flange Socket PVC (RRJ)         Ø         4 "         buah         SNI 06.0135.1987         Rp           11 Flange Socket PVC (RRJ)         Ø         6 "         buah         SNI 06.0135.1987         Rp           12 Flange Socket PVC (RRJ)         Ø         8 "         buah         SNI 06.0135.1987         Rp           12 Flange Socket PVC (RRJ)         Ø         10 "         buah         SNI 06.0135.1987         Rp           12 Flange Socket PVC (RRJ)         Ø         10 "         buah         SNI 06.0135.1987         Rp           12 Flange Socket PVC (RRJ)         Ø         2 x 45 "         buah         SNI 06.0135.1987         Rp           12 Flange Socket PVC (RRJ)         Ø         2 x 45 "         buah         SNI 06.0135.1987         Rp           12 Flange Socket PVC (RRJ)         Ø	[								314,416
6 Flange Socket PVC (SCJ)	Į								621,686
Flange Socket PVC (RRI)	ļ								1,000,414
8 Flange Socket PVC (RRI) Ø 3 " buah SNI 06.0135.1987 Rp  9 Flange Socket PVC (RRI) Ø 4 " buah SNI 06.0135.1987 Rp  10 Flange Socket PVC (RRI) Ø 6 " buah SNI 06.0135.1987 Rp  11 Flange Socket PVC (RRI) Ø 10 " buah SNI 06.0135.1987 Rp  12 Flange Socket PVC (RRI) Ø 10 " buah SNI 06.0135.1987 Rp  13 Flange Socket PVC (RRI) Ø 10 " buah SNI 06.0135.1987 Rp  14 Bend PVC (SCI) Ø 2 x 45 " buah SNI 06.0135.1987 Rp  2 Bend PVC (SCI) Ø 2 x 90 " buah SNI 06.0135.1987 Rp  3 Bend PVC (SCI) Ø 3 x 45 " buah SNI 06.0135.1987 Rp  4 Bend PVC (SCI) Ø 3 x 90 " buah SNI 06.0135.1987 Rp  5 Bend PVC (SCI) Ø 3 x 90 " buah SNI 06.0135.1987 Rp  5 Bend PVC (SCI) Ø 4 x 45 " buah SNI 06.0135.1987 Rp  6 Bend PVC (SCI) Ø 4 x 45 " buah SNI 06.0135.1987 Rp  7 Bend PVC (SCI) Ø 4 x 45 " buah SNI 06.0135.1987 Rp  8 Bend PVC (SCI) Ø 6 x 45 " buah SNI 06.0135.1987 Rp  9 Bend PVC (SCI) Ø 6 x 45 " buah SNI 06.0135.1987 Rp  10 Bend PVC (RRI) Ø 6 x 90 " buah SNI 06.0135.1987 Rp  10 Bend PVC (RRI) Ø 6 x 90 " buah SNI 06.0135.1987 Rp  11 Bend PVC (RRI) Ø 6 x 90 " buah SNI 06.0135.1987 Rp  11 Bend PVC (RRI) Ø 6 x 90 " buah SNI 06.0135.1987 Rp  12 Bend PVC (RRI) Ø 6 x 90 " buah SNI 06.0135.1987 Rp  13 Bend PVC (RRI) Ø 6 x 90 " buah SNI 06.0135.1987 Rp  14 Bend PVC (RRI) Ø 8 x 90 " buah SNI 06.0135.1987 Rp  15 Bend PVC (RRI) Ø 6 x 90 " buah SNI 06.0135.1987 Rp  16 Bend PVC (RRI) Ø 6 x 90 " buah SNI 06.0135.1987 Rp  17 Bend PVC (RRI) Ø 8 x 90 " buah SNI 06.0135.1987 Rp  18 Bend PVC (RRI) Ø 8 x 90 " buah SNI 06.0135.1987 Rp  19 Bend PVC (RRI) Ø 8 x 90 " buah SNI 06.0135.1987 Rp  10 Bend PVC (RRI) Ø 8 x 90 " buah SNI 06.0135.1987 Rp  11 Bend PVC (RRI) Ø 8 x 90 " buah SNI 06.0135.1987 Rp  12 Bend PVC (RRI) Ø 8 x 90 " buah SNI 06.0135.1987 Rp  13 Bend PVC (RRI) Ø 8 x 90 " buah SNI 06.0135.1987 Rp  14 Bend PVC (RRI) Ø 8 x 90 " buah SNI 06.0135.1987 Rp	}								2,358,119
9 Flange Socket PVC (RR)	ŀ								257,249
10   Flange Socket PVC (RR)	ŀ								357,291
Table   Flange Socket PVC (RR)	ľ								664,561
Bend PVC (SC)	Ī				8 "	buah	SNI 06.0135.1987	Rp	1,071,872
1       Bend PVC (SCI)       Ø       2 x 45 °       buah       SNI 06.0135.1987       Rp         2       Bend PVC (SCI)       Ø       2 x 90 °       buah       SNI 06.0135.1987       Rp         3       Bend PVC (SCI)       Ø       3 x 45 °       buah       SNI 06.0135.1987       Rp         4       Bend PVC (SCI)       Ø       3 x 90 °       buah       SNI 06.0135.1987       Rp         5       Bend PVC (SCI)       Ø       4 x 45 °       buah       SNI 06.0135.1987       Rp         6       Bend PVC (SCI)       Ø       4 x 90 °       buah       SNI 06.0135.1987       Rp         7       Bend PVC (SCI)       Ø       6 x 45 °       buah       SNI 06.0135.1987       Rp         8       Bend PVC (SCI)       Ø       6 x 45 °       buah       SNI 06.0135.1987       Rp         9       Bend PVC (RRI)       Ø       6 x 45 °       buah       SNI 06.0135.1987       Rp         10       Bend PVC (RRI)       Ø       6 x 45 °       buah       SNI 06.0135.1987       Rp         11       Bend PVC (RRI)       Ø       6 x 45 °       buah       SNI 06.0135.1987       Rp         12       Bend PVC (RRI)       Ø       8	[	12	Flange Socket PVC (RRJ)	Ø	10 "	buah	SNI 06.0135.1987	Rp	2,715,410
1       Bend PVC (SCI)       Ø       2 x 45 °       buah       SNI 06.0135.1987       Rp         2       Bend PVC (SCI)       Ø       2 x 90 °       buah       SNI 06.0135.1987       Rp         3       Bend PVC (SCI)       Ø       3 x 45 °       buah       SNI 06.0135.1987       Rp         4       Bend PVC (SCI)       Ø       3 x 90 °       buah       SNI 06.0135.1987       Rp         5       Bend PVC (SCI)       Ø       4 x 45 °       buah       SNI 06.0135.1987       Rp         6       Bend PVC (SCI)       Ø       4 x 90 °       buah       SNI 06.0135.1987       Rp         7       Bend PVC (SCI)       Ø       6 x 45 °       buah       SNI 06.0135.1987       Rp         8       Bend PVC (SCI)       Ø       6 x 45 °       buah       SNI 06.0135.1987       Rp         9       Bend PVC (RI)       Ø       6 x 45 °       buah       SNI 06.0135.1987       Rp         10       Bend PVC (RRI)       Ø       6 x 45 °       buah       SNI 06.0135.1987       Rp         11       Bend PVC (RRI)       Ø       6 x 90 °       buah       SNI 06.0135.1987       Rp         12       Bend PVC (RRI)       Ø       8			75.70.00					—	
2       Bend PVC (SCJ)       Ø       2 x 90 °       buah       SNI 06.0135.1987       Rp         3       Bend PVC (SCJ)       Ø       3 x 45 °       buah       SNI 06.0135.1987       Rp         4       Bend PVC (SCJ)       Ø       3 x 90 °       buah       SNI 06.0135.1987       Rp         5       Bend PVC (SCJ)       Ø       4 x 45 °       buah       SNI 06.0135.1987       Rp         6       Bend PVC (SCJ)       Ø       4 x 90 °       buah       SNI 06.0135.1987       Rp         7       Bend PVC (SCJ)       Ø       6 x 45 °       buah       SNI 06.0135.1987       Rp         8       Bend PVC (SCJ)       Ø       6 x 90 °       buah       SNI 06.0135.1987       Rp         9       Bend PVC (RRI)       Ø       6 x 45 °       buah       SNI 06.0135.1987       Rp         10       Bend PVC (RRI)       Ø       6 x 90 °       buah       SNI 06.0135.1987       Rp         11       Bend PVC (RRI)       Ø       8 x 90 °       buah       SNI 06.0135.1987       Rp         12       Bend PVC (RRI)       Ø       8 x 90 °       buah       SNI 06.0135.1987       Rp         13       Bend PVC (RRI)       Ø	1X.14			Ø	2 v 45 °	b.cal-	SNI 06 0125 1097	Pr	07 400
3       Bend PVC (SCJ)       Ø       3 x 45 °       buah       SNI 06.0135.1987       Rp         4       Bend PVC (SCJ)       Ø       3 x 90 °       buah       SNI 06.0135.1987       Rp         5       Bend PVC (SCJ)       Ø       4 x 45 °       buah       SNI 06.0135.1987       Rp         6       Bend PVC (SCJ)       Ø       4 x 90 °       buah       SNI 06.0135.1987       Rp         7       Bend PVC (SCJ)       Ø       6 x 45 °       buah       SNI 06.0135.1987       Rp         8       Bend PVC (SCJ)       Ø       6 x 90 °       buah       SNI 06.0135.1987       Rp         9       Bend PVC (RRI)       Ø       6 x 45 °       buah       SNI 06.0135.1987       Rp         10       Bend PVC (RRI)       Ø       6 x 90 °       buah       SNI 06.0135.1987       Rp         11       Bend PVC (RRI)       Ø       6 x 45 °       buah       SNI 06.0135.1987       Rp         12       Bend PVC (RRI)       Ø       8 x 90 °       buah       SNI 06.0135.1987       Rp         13       Bend PVC (RRI)       Ø       10 x 45 °       buah       SNI 06.0135.1987       Rp         14       Bend PVC (RRI)       Ø <t< td=""><td>}</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>97,183</td></t<>	}								97,183
4       Bend PVC (SCJ)       Ø       3 x 90 °       buah       SNI 06.0135.1987       Rp         5       Bend PVC (SCJ)       Ø       4 x 45 °       buah       SNI 06.0135.1987       Rp         6       Bend PVC (SCJ)       Ø       4 x 90 °       buah       SNI 06.0135.1987       Rp         7       Bend PVC (SCJ)       Ø       6 x 45 °       buah       SNI 06.0135.1987       Rp         8       Bend PVC (SCJ)       Ø       6 x 90 °       buah       SNI 06.0135.1987       Rp         9       Bend PVC (RRJ)       Ø       6 x 45 °       buah       SNI 06.0135.1987       Rp         10       Bend PVC (RRJ)       Ø       6 x 90 °       buah       SNI 06.0135.1987       Rp         11       Bend PVC (RRJ)       Ø       8 x 45 °       buah       SNI 06.0135.1987       Rp         12       Bend PVC (RRJ)       Ø       8 x 90 °       buah       SNI 06.0135.1987       Rp         13       Bend PVC (RRJ)       Ø       10 x 45 °       buah       SNI 06.0135.1987       Rp         14       Bend PVC (RRJ)       Ø       10 x 45 °       buah       SNI 06.0135.1987       Rp	ŀ								142,916
5     Bend PVC (SCJ)     Ø     4 x 45 °     buah     SNI 06.0135.1987     Rp       6     Bend PVC (SCJ)     Ø     4 x 90 °     buah     SNI 06.0135.1987     Rp       7     Bend PVC (SCJ)     Ø     6 x 90 °     buah     SNI 06.0135.1987     Rp       8     Bend PVC (SCJ)     Ø     6 x 90 °     buah     SNI 06.0135.1987     Rp       9     Bend PVC (RRJ)     Ø     6 x 45 °     buah     SNI 06.0135.1987     Rp       10     Bend PVC (RRJ)     Ø     6 x 90 °     buah     SNI 06.0135.1987     Rp       11     Bend PVC (RRJ)     Ø     8 x 45 °     buah     SNI 06.0135.1987     Rp       12     Bend PVC (RRJ)     Ø     8 x 90 °     buah     SNI 06.0135.1987     Rp       13     Bend PVC (RRJ)     Ø     10 x 45 °     buah     SNI 06.0135.1987     Rp       14     Bend PVC (RRJ)     Ø     10 x 90 °     buah     SNI 06.0135.1987     Rp	ŀ								150,062
6       Bend PVC (SCJ)       Ø       4 x 90 °       buah       SNI 06.0135.1987       Rp         7       Bend PVC (SCJ)       Ø       6 x 45 °       buah       SNI 06.0135.1987       Rp         8       Bend PVC (SCJ)       Ø       6 x 90 °       buah       SNI 06.0135.1987       Rp         9       Bend PVC (RRI)       Ø       6 x 45 °       buah       SNI 06.0135.1987       Rp         10       Bend PVC (RRI)       Ø       6 x 90 °       buah       SNI 06.0135.1987       Rp         11       Bend PVC (RRI)       Ø       8 x 45 °       buah       SNI 06.0135.1987       Rp         12       Bend PVC (RRI)       Ø       8 x 90 °       buah       SNI 06.0135.1987       Rp         13       Bend PVC (RRI)       Ø       10 x 45 °       buah       SNI 06.0135.1987       Rp         14       Bend PVC (RRI)       Ø       10 x 45 °       buah       SNI 06.0135.1987       Rp	ľ								205,799
8       Bend PVC (SCJ)       Ø       6 x 90 °       buah       SNI 06.0135.1987       Rp         9       Bend PVC (RRJ)       Ø       6 x 45 °       buah       SNI 06.0135.1987       Rp         10       Bend PVC (RRJ)       Ø       6 x 90 °       buah       SNI 06.0135.1987       Rp         11       Bend PVC (RRJ)       Ø       8 x 45 °       buah       SNI 06.0135.1987       Rp         12       Bend PVC (RRJ)       Ø       8 x 90 °       buah       SNI 06.0135.1987       Rp         13       Bend PVC (RRJ)       Ø       10 x 45 °       buah       SNI 06.0135.1987       Rp         14       Bend PVC (RRJ)       Ø       10 x 90 °       buah       SNI 06.0135.1987       Rp	Į						SNI 06.0135.1987	Rp	219,377
9 Bend PVC (RR)	[	_							643,123
10     Bend PVC (RR)     Ø     6 x 90 °     buah     SNI 06.0135.1987     Rp       11     Bend PVC (RR)     Ø     8 x 45 °     buah     SNI 06.0135.1987     Rp       12     Bend PVC (RR)     Ø     8 x 90 °     buah     SNI 06.0135.1987     Rp       13     Bend PVC (RR)     Ø     10 x 45 °     buah     SNI 06.0135.1987     Rp       14     Bend PVC (RR)     Ø     10 x 90 °     buah     SNI 06.0135.1987     Rp	ļ								714,582
11     Bend PVC (RR)     Ø     8 x 45 °     buah     SNI 06.0135.1987     Rp       12     Bend PVC (RR)     Ø     8 x 90 °     buah     SNI 06.0135.1987     Rp       13     Bend PVC (RR)     Ø     10 x 45 °     buah     SNI 06.0135.1987     Rp       14     Bend PVC (RR)     Ø     10 x 90 °     buah     SNI 06.0135.1987     Rp	ļ	_							761,029
12     Bend PVC (RR)     Ø     8 x 90 °     buah     SNI 06.0135.1987     Rp       13     Bend PVC (RR)     Ø     10 x 45 °     buah     SNI 06.0135.1987     Rp       14     Bend PVC (RR)     Ø     10 x 90 °     buah     SNI 06.0135.1987     Rp	ŀ	_							828,915
13     Bend PVC (RRJ)     Ø     10 x 45 °     buah     SNI 06.0135.1987     Rp       14     Bend PVC (RRJ)     Ø     10 x 90 °     buah     SNI 06.0135.1987     Rp	ŀ								1,207,643
14         Bend PVC (RRJ)         Ø         10 x 90 °         buah         SNI 06.0135.1987         Rp	ŀ								2,643,952
	ŀ								2,858,326
15   Bend PVC (RRJ)	ľ				12 x 45 °		SNI 06.0135.1987		3,072,701

1		NAMA BARANG		SATUAN	SPESIFIKASI		ARGA 2023
		NAMA BAKANG		SATUAN	SPESIFIKASI	H	IRGA 2023
_	16 Bend PVC (RRJ)	Ø	12 x 90 °	buah	SNI 06.0135.1987	Rp	3,144,1
-	19 Bend PVC-O (RRJ)		3 x 45 °	buah	SNI ISO 16422:2014	Rp	356,
_	20 Bend PVC-O (RRJ)		3 x 90 °	buah	SNI ISO 16422:2014	Rp	360,
$\vdash$	21 Bend PVC-O (RRJ)	Ø	4 x 45 °	buah	SNI ISO 16422:2014	Rp	567,
$\vdash$	22 Bend PVC-O (RRJ)		4 x 90 °	buah 	SNI ISO 16422:2014	Rp	733,
$\vdash$	23 Bend PVC-O (RRJ)		6 x 45 °	buah	SNI ISO 16422:2014	Rp	1,278,
$\vdash$	24 Bend PVC-O (RRJ)		6 x 90 °	buah	SNI ISO 16422:2014	Rp	1,293,
_	25 Bend PVC-O (RRJ)		8 x 45 °	buah	SNI ISO 16422:2014	Rp	2,581,
_	26 Bend PVC-O (RRJ)		8 x 90 °	buah	SNI ISO 16422:2014	Rp	2,688,
_	27 Bend PVC-O (RRJ)	Ø	10 x 45 °	buah	SNI ISO 16422:2014	Rp	4,033
_	28 Bend PVC-O (RRJ)	Ø	10 x 90 °	buah	SNI ISO 16422:2014	Rp	4,033
$\vdash$	29 Bend PVC-O (RRJ)	Ø	12 x 45 °	buah	SNI ISO 16422:2014	Rp	6,277
_	30 Bend PVC-O (RRJ)	Ø	12 x 90 °	buah	SNI ISO 16422:2014	Rp	6,277
Ŀ	37 Bend HDPE BUTT FUSION		2 x 45 °	buah	SNI 4829.2.2015, Segmented	Rp	156
	38 Bend HDPE BUTT FUSION	Ø	2 x 90 °	buah	SNI 4829.2.2015, Segmented	Rp	227
	39 Bend HDPE BUTT FUSION	Ø	3 x 45 °	buah	SNI 4829.2.2015, Segmented	Rp	263
Ŀ	40 Bend HDPE BUTT FUSION	Ø	3 x 90 °	buah	SNI 4829.2.2015, Segmented	Rp	380
Ŀ	41 Bend HDPE BUTT FUSION	Ø	4 x 45 °	buah	SNI 4829.2.2015, Segmented	Rp	379
Ŀ	42 Bend HDPE BUTT FUSION	Ø	4 x 90 °	buah	SNI 4829.2.2015, Segmented	Rp	46
_	43 Bend HDPE BUTT FUSION	Ø	6 x 45 °	buah	SNI 4829.2.2015, Segmented	Rp	72
ŀ	44 Bend HDPE BUTT FUSION	Ø	6 x 90 °	buah	SNI 4829.2.2015, Segmented	Rp	949
	45 Bend HDPE BUTT FUSION	Ø	8 x 45 °	buah	SNI 4829.2.2015, Segmented	Rp	900
٦.	46 Bend HDPE BUTT FUSION	Ø	8 x 90 °	buah	SNI 4829.2.2015, Segmented	Rp	1,157
	47 Bend HDPE BUTT FUSION	Ø	10 x 45 °	buah	SNI 4829.2.2015, Segmented	Rp	1,269
	48 Bend HDPE BUTT FUSION	Ø	10 x 90 °	buah	SNI 4829.2.2015, Segmented	Rp	1,842
ŀ	49 Bend HDPE BUTT FUSION	Ø	12 x 45 °	buah	SNI 4829.2.2015, Segmented	Rp	1,599
	50 Bend HDPE BUTT FUSION	Ø	12 x 90 °	buah	SNI 4829.2.2015, Segmented	Rp	2,38
	51 Bend HDPE BUTT FUSION	Ø	14 x 45 °	buah	SNI 4829.2.2015, Segmented	Rp	2,132
Ī	52 Bend HDPE BUTT FUSION	Ø	14 x 90 °	buah	SNI 4829.2.2015, Segmented	Rp	2,94
_	53 Bend HDPE BUTT FUSION	Ø	16 x 45 °	buah	SNI 4829.2.2015, Segmented	Rp	2,284
Н	54 Bend HDPE BUTT FUSION	Ø	16 x 90 °	buah	SNI 4829.2.2015, Segmented	Rp	3,14
$\vdash$	55 Bend HDPE BUTT FUSION		20 x 45 °	buah	SNI 4829.2.2015, Segmented	Rp	3,65
-	56 Bend HDPE BUTT FUSION	Ø	20 x 90 °	buah	SNI 4829.2.2015, Segmented	Rp	5,03
_	57 Bend HDPE BUTT FUSION	Ø	24 x 45 °	buah	SNI 4829.2.2015, Segmented	Rp	6,579
$\vdash$	58 Bend HDPE BUTT FUSION		24 x 90 °	buah	SNI 4829.2.2015, Segmented	Rp	9,064
-	81 Bend Steel	Ø	2 x 45 °	buah	ASTM A53, Sch 40	Rp	2!
-	82 Bend Steel		2 x 90 °	buah	ASTM A53, Sch 40	Rp	61
-	83 Bend Steel		3 x 45 °	buah	ASTM A53, Sch 40	Rp	6.
_	84 Bend Steel		3 x 90 °	buah	ASTM A53, Sch 40	Rp	7.
$\vdash$	85 Bend Steel		4 x 45 °	buah	ASTM A53, Sch 40		9:
-			*			Rp	
$\vdash$	86 Bend Steel	Ø Ø	4 x 90 °	buah	ASTM AS3, Sch 40	Rp	157
Н	87 Bend Steel		6 x 45 °	buah	ASTM AS3, Sch 40	Rp	
-	88 Bend Steel	Ø	6 x 90 °	buah	ASTM A53, Sch 40	Rp	34
-	89 Bend Steel		8 x 45 °	buah	ASTM AS3, Sch 40	Rp	46
_	90 Bend Steel		8 x 90 °	buah	ASTM AS3, Sch 40	Rp	76
$\vdash$	91 Bend Steel	Ø	10 x 45 °	buah	ASTM A53, Sch 40	Rp	1,03
_	92 Bend Steel	Ø	10 x 90 °	buah	ASTM A53, Sch 40	Rp	1,28
-	93 Bend Steel	Ø	12 x 45 °	buah	ASTM A53, Sch 40	Rp	1,19
Н	94 Bend Steel	0	12 x 90 °	buah	ASTM A53, Sch 40	Rp	1,88
_	95 Bend Steel	Ø	14 x 45 °	buah	ASTM A53, Sch 40	Rp	2,22
_	96 Bend Steel	Ø	14 x 90 °	buah	ASTM A53, Sch 40	Rp	2,89
	97 Bend Steel	0	16 x 45 °		ASTM A53, Sch 40	Rp	2,73
_	98 Bend Steel	Ø	16 x 90 °	buah	ASTM A53, Sch 40	Rp	4,79
_	99 Bend Steel	Ø	20 x 45 °	buah	ASTM A53, Sch 40	Rp	6,39
_	100 Bend Steel		20 x 90 °	buah	ASTM A53, Sch 40	Rp	7,28
_	101 Bend Steel	Ø	24 x 45 °	buah	ASTM A53, Sch 40	Rp	12,77
-	102 Bend Steel		24 x 90 °	buah	ASTM A53, Sch 40	Rp	12,77
_	103 All Flanged Bend DCI		6 x 45 °	buah	Cast Iron GGG 50	Rp	6,33
_	104 All Flanged Bend DCI	Ø	6 x 90 °	buah	Cast Iron GGG 50	Rp	6,33
1	105 All Flanged Bend DCI	Ø	8 x 45 °	buah	Cast Iron GGG 50	Rp	9,013
1	106 All Flanged Bend DCI	Ø	8 x 90 °	buah	Cast Iron GGG 50	Rp	9,013
-	107 All Flanged Bend DCI	Ø	10 x 45 °	buah	Cast Iron GGG 50	Rp	14,68
_	108 All Flanged Bend DCI	Ø	10 x 90 °	buah	Cast Iron GGG 50	Rp	14,68
1	109 All Flanged Bend DCI	Ø	12 x 45 °	buah	Cast Iron GGG 50	Rp	20,70
1	110 All Flanged Bend DCI	Ø	12 x 90 °	buah	Cast Iron GGG 50	Rp	20,70
1	111 All Flanged Bend DCI	Ø	14 x 45 °	buah	Cast Iron GGG 51	Rp	25,34
1	112 All Flanged Bend DCI	Ø	14 x 90 °	buah	Cast Iron GGG 52	Rp	25,34
1	113 All Flanged Bend DCI	Ø	16 x 45 °	buah	Cast Iron GGG 53	Rp	34,91
1	114 All Flanged Bend DCI	Ø	16 x 90 °	buah	Cast Iron GGG 54	Rp	34,91
1	115 All Flanged Bend DCI	Ø	20 x 45 °	buah	Cast Iron GGG 55	Rp	50,31
1	116 All Flanged Bend DCI	Ø	20 x 90 °	buah	Cast Iron GGG 56	Rp	50,31
_	117 All Flanged Bend DCI		24 x 45 °	buah	Cast Iron GGG 57	Rp	70,74
1	118 All Flanged Bend DCI	Ø	24 x 90 °	buah	Cast Iron GGG 58	Rp	70,74
1	141 Male/Female Elbow GI	Ø	1/2"	buah	SNI 0139 : 2008, ISO 7-1	Rp	1
1	142 Male/Female Elbow GI	Ø	3/4"	buah	SNI 0139 : 2008, ISO 7-1	Rp	2
1	143 Male/Female Elbow GI	Ø	1"	buah	SNI 0139 : 2008, ISO 7-1	Rp	2
1	144 Male/Female Elbow GI	Ø	11/2"	buah	SNI 0139 : 2008, ISO 7-1	Rp	(
$\vdash$	145 Male/Female Elbow GI		2"	buah	SNI 0139 : 2008, ISO 7-1	Rp	10
_	146 Knee GI	Ø	1/2"	buah	SNI 0139 : 2008, ISO 7-1	Rp	
_	147 Knee GI		3/4"	buah	SNI 0139 : 2008, ISO 7-1	Rp	1
Н	148 Knee GI	Ø	1"	buah	SNI 0139 : 2008, ISO 7-1	Rp	-
_	149 Knee GI		11/2"	buah	SNI 0139 : 2008, ISO 7-1	Rp	3
$\vdash$	150 Knee GI		2"		SNI 0139 : 2008, ISO 7-1 SNI 0139 : 2008, ISO 7-1		
_	151 Elbow Push on (Knee)	Ø	1/2"	buah buah	ISO 14236.2000	Rp Rp	
Н			3/4"				
	152 Elbow Push on (Knee)		<sup>3</sup> / <sub>4</sub> " 1"	buah	ISO 14236.2001	Rp	2
11	153 Elbow Push on (Knee)	Ø		buah	ISO 14236.2002	Rp	3
_	154 Male elbow Push on (Knee Drat luar)	Ø	1/2"	buah	ISO 14236.2000, Plastic Thread	Rp	1
1		Ø	3/4" X 1/2"	buah	ISO 14236.2000, Plastic Thread	Rp	1
1	155 Male elbow Push on (Knee Drat luar)		37.11	la · · · · · I	ICO 14226 2000 Blockie 71		
1	155 Male elbow Push on (Knee Drat luar) 156 Male elbow Push on (Knee Drat luar) 157 Male elbow Push on (Knee Drat luar)	Ø	3/4" 1"	buah buah	ISO 14236.2000, Plastic Thread ISO 14236.2000, Plastic Thread	Rp Rp	2

				37 117		≀ AKSESORIS 2022-2023		
10		NAMA BARAN	G		SATUAN	SPESIFIKASI	HAF	RGA 2023
	159	Female elbow Push on (Knee Drat dalam)	Ø	3/4" x 1/2"	buah	ISO 14236.2000, Plastic Thread	Rp	19,9
	160	Female elbow Push on (Knee Drat dalam)	Ø	3/4"	buah	ISO 14236.2000, Plastic Thread	Rp	21,4
		Female elbow Push on (Knee Drat dalam)	Ø	1"	buah	ISO 14236.2000, Plastic Thread	Rp	28,7
		Male elbow Push on (Knee Drat luar)	Ø	1/2"	buah	ISO 14236.2000, Brass thread	Rp	38,9
	-	Male elbow Push on (Knee Drat luar)	Ø	3/4" X 1/2"	buah	ISO 14236.2000, Brass thread	Rp	42,1
	-	Male elbow Push on (Knee Drat luar)	Ø	3/4"	buah	ISO 14236.2000, Brass thread	Rp	52,6
	_	Male elbow Push on (Knee Drat luar)	Ø	1"	buah	ISO 14236.2000, Brass thread	Rp	70,6 29,2
		Female elbow Push on (Knee Drat dalam) Female elbow Push on (Knee Drat dalam)	Ø	1/2" 3/4" x 1/2"	buah	ISO 14236.2000, Brass thread ISO 14236.2000, Brass thread	Rp Rp	34,7
	107	remaie elbow rush on (knee Drat dalam)	Ø	74 X 72	buah	ISO 14256.2000, Brass tillead	КР	34,1
X.15	REDU	ICFR						
1.13	_	Reducer PVC SCJ	Ø	2 x 1½ "	buah	SNI 06.0135.1987	Rp	57,4
		Reducer PVC SCJ	Ø	3 x 2 "	buah	SNI 06.0135.1987	Rp	98,6
	3	Reducer PVC SCJ	Ø	4 x 2 "	buah	SNI 06.0135.1987	Rp	185,2
	4	Reducer PVC SCJ	Ø	4 x 3 "	buah	SNI 06.0135.1987	Rp	229,9
	5	Reducer PVC SCJ	Ø	6 x 2 "	buah	SNI 06.0135.1987	Rp	376,9
	6	Reducer PVC SCJ	Ø	6 x 3 "	buah	SNI 06.0135.1987	Rp	383,2
	7	Reducer PVC SCJ	Ø	6 x 4 "	buah	SNI 06.0135.1987	Rp	411,9
		Reducer PVC SCJ	Ø	8 x 2 "	buah	SNI 06.0135.1987	Rp	638,
	_	Reducer PVC SCJ	Ø	8 x 3 "	buah	SNI 06.0135.1987	Rp	653,
		Reducer PVC SCJ	Ø	8 x 4 "	buah	SNI 06.0135.1987	Rp	664,
	-	Reducer PVC SCJ	Ø	8 x 6 "	buah	SNI 06.0135.1987	Rp	680,2
		Reducer PVC SCJ Reducer PVC RRJ	Ø	10 x 6 "	buah	SNI 06.0135.1987	Rp	1,006,2
	_		ø	6 x 2 "	buah buah	SNI 06.0135.1987	Rp	389,6 396,0
	_	Reducer PVC RRJ Reducer PVC RRJ	Ø	6 x 4 "	buah	SNI 06.0135.1987 SNI 06.0135.1987	Rp Rp	408,8
		Reducer PVC RRJ	Ø	8 x 2 "	buah	SNI 06.0135.1987	Rp	638,8
	-	Reducer PVC RRJ	Ø	8 x 3 "	buah	SNI 06.0135.1987	Rp	651,
		Reducer PVC RRJ	Ø	8 x 4 "	buah	SNI 06.0135.1987	Rp	664,
		Reducer PVC RRJ	Ø	8 x 6 "	buah	SNI 06.0135.1987	Rp	677,
	20	Reducer PVC RRJ	Ø	10 x 6 "	buah	SNI 06.0135.1987	Rp	1,213,
	40	Reducer HDPE	Ø	3 x 2 "	buah	SNI 4829.2.2015, Segmented	Rp	202,
	41	Reducer HDPE	Ø	4 x 2 "	buah	SNI 4829.2.2015, Segmented	Rp	264,
	42	Reducer HDPE	Ø	4 x 3 "	buah	SNI 4829.2.2015, Segmented	Rp	264,
	-	Reducer HDPE	Ø	6 x 2 "	buah	SNI 4829.2.2015, Segmented	Rp	655,
	-	Reducer HDPE	Ø	6 x 3 "	buah	SNI 4829.2.2015, Segmented	Rp	655,
	-	Reducer HDPE	Ø	6 x 4 "	buah	SNI 4829.2.2015, Segmented	Rp	655,
		Reducer HDPE	Ø	8 x 4 "	buah	SNI 4829.2.2015, Segmented	Rp	942,6
	47	Reducer HDPE	Ø	8 x 6 "	buah	SNI 4829.2.2015, Segmented	Rp	942,
	-	Reducer HDPE	Ø	10 x 4 "	buah	SNI 4829.2.2015, Segmented	Rp	1,353,
	49	Reducer HDPE	Ø	10 x 6 "	buah	SNI 4829.2.2015, Segmented	Rp	1,353,4
	_	Reducer HDPE Reducer HDPE	Ø	10 x 8 " 12 x 8"	buah buah	SNI 4829.2.2015, Segmented SNI 4829.2.2015, Segmented	Rp Rp	1,850,2
	52	Reducer HDPE	Ø	12 x 10"	buah	SNI 4829.2.2015, Segmented	Rp	1,850,2
	-	Reducer HDPE	Ø	14 x 10"	buah	SNI 4829.2.2015, Segmented	Rp	2,238,5
	_	Reducer HDPE	Ø	14 x 12"	buah	SNI 4829.2.2015, Segmented	Rp	2,238,5
	-	Reducer HDPE	Ø	16 x 12"	buah	SNI 4829.2.2015, Segmented	Rp	3,346,5
	56	Reducer HDPE	Ø	16 x 14"	buah	SNI 4829.2.2015, Segmented	Rp	3,346,5
	57	Reducer HDPE	Ø	20 x 12"	buah	SNI 4829.2.2015, Segmented	Rp	5,666,7
	58	Reducer HDPE	Ø	20 x 16"	buah	SNI 4829.2.2015, Segmented	Rp	6,781,6
	59	Reducer HDPE	Ø	24 x 20"	buah	SNI 4829.2.2015, Segmented	Rp	11,212,4
	60	Verlop Sock Galvanis	Ø	3/4" x 1/2"	buah	SNI 0139 : 2008, ISO 7-1	Rp	9,4
			Ø	1 x ½"	buah	SNI 0139 : 2008, ISO 7-1	Rp	12,
	_	Verlop Sock Galvanis	Ø	1 x 3/4"	buah	SNI 0139 : 2008, ISO 7-1	Rp	11,8
		Verlop Sock Galvanis	Ø	1½ x ½"	buah	SNI 0139 : 2008, ISO 7-1	Rp	22,6
		Verlop Sock Galvanis	Ø	1½ x ¾"	buah	SNI 0139 : 2008, ISO 7-1	Rp	21,9
		Verlop Sock Galvanis	Ø	1½ x 1"	buah	SNI 0139 : 2008, ISO 7-1	Rp	18,8
		Verlop Sock Galvanis Verlop Sock Galvanis	Ø	2 x ½" 2 x ¾"	buah buah	SNI 0139 : 2008, ISO 7-1 SNI 0139 : 2008, ISO 7-1	Rp Rp	34,2 33,5
		Verlop Sock Galvanis Verlop Sock Galvanis	Ø	2 x 1"	buah	SNI 0139 : 2008, ISO 7-1	Rp	33,
	-	Verlop Sock Galvanis Verlop Sock Galvanis	ø	2 x 1½"	buah	SNI 0139 : 2008, ISO 7-1 SNI 0139 : 2008, ISO 7-1	Rp	37,
		Verlop Sock Galvanis Verlop Nipple Galvanis	Ø	3/4 X 1/2"	buah	SNI 0139 : 2008, ISO 7-1	Rp	9,
	_	Verlop Nipple Galvanis	Ø	1 x ½"	buah	SNI 0139 : 2008, ISO 7-1	Rp	12,
		Verlop Nipple Galvanis	Ø	1 x ¾"	buah	SNI 0139 : 2008, ISO 7-1	Rp	11,
	73	Verlop Nipple Galvanis	Ø	1½ x ½"	buah	SNI 0139 : 2008, ISO 7-1	Rp	22,
		Verlop Nipple Galvanis	Ø	1½ x ¾"	buah	SNI 0139 : 2008, ISO 7-1	Rp	21,
			Ø	1½ x 1"	buah	SNI 0139 : 2008, ISO 7-1	Rp	18,
		Verlop Nipple Galvanis	Ø	2 x ½"	buah	SNI 0139 : 2008, ISO 7-1	Rp	34,
		Verlop Nipple Galvanis	Ø	2 x ¾"	buah	SNI 0139 : 2008, ISO 7-1	Rp	33,
			Ø	2 x 1"	buah	SNI 0139 : 2008, ISO 7-1	Rp	33,
		Verlop Nipple Galvanis Reducer Eksentris	Ø	2 x 1½" 3 x 2 "	buah buah	SNI 0139 : 2008, ISO 7-1 ASTM A53, Sch 40	Rp Rp	37, 69,
	_	Reducer Eksentris Reducer Eksentris	Ø	4 x 2 "	buah	ASTM A53, Sch 40 ASTM A53, Sch 40	Rp	116,
	82	Reducer Eksentris	Ø	4 x 3 "	buah	ASTM A53, Sch 40	Rp	116,
	-	Reducer Eksentris	Ø	6 x 3 "	buah	ASTM A53, Sch 40	Rp	302
		Reducer Eksentris	Ø	6 x 4 "	buah	ASTM A53, Sch 40	Rp	302
	-	Reducer Eksentris	Ø	8 x 4 "	buah	ASTM A53, Sch 40	Rp	442
	-	Reducer Eksentris	Ø	8 x 6 "	buah	ASTM A53, Sch 40	Rp	442
	87	Reducer Eksentris	Ø	10 x 6 "	buah	ASTM A53, Sch 40	Rp	768
	88	Reducer Eksentris	Ø	10 x 8 "	buah	ASTM A53, Sch 40	Rp	768
	89	Reducer Eksentris	Ø	12 x 6"	buah	ASTM A53, Sch 40	Rp	1,211
	-	Reducer Eksentris	Ø	12 x 8"	buah	ASTM A53, Sch 40	Rp	1,211
		Reducer Eksentris	Ø	12 x 10"	buah	ASTM A53, Sch 40	Rp	1,211
	92	Reducer Concentris	Ø	3 x 2 "	buah	ASTM A53, Sch 40	Rp	69
	-	Reducer Concentris	Ø	4 x 2 "	buah	ASTM A53, Sch 40	Rp	69
	-	Reducer Concentris	Ø	4 x 3 "	buah	ASTM A53, Sch 40	Rp	69
		Reducer Concentris	Ø	6 x 3 "	buah	ASTM A53, Sch 40	Rp	186,
	96	Reducer Concentris	Ø	6 x 4 "	buah	ASTM A53, Sch 40	Rp	186,
	97 98	Reducer Concentris	Ø	8 x 4 "	buah	ASTM A53, Sch 40	Rp	466,
	- ux	Reducer Concentris	Ø	8 x 6 "	buah	ASTM A53, Sch 40	Rp	466,

NO		DAFTAR STAN	IDAR S	ATUAN HARG	A PIPA &	X AKSESOKIS 2022-2023		
		NAMA BARANG			SATUAN	SPESIFIKASI	н	ARGA 2023
	100	Reducer Concentris	Ø	10 x 8 "	buah	ASTM A53, Sch 40	Rp	699,04
	101	Reducer Concentris	Ø	12 x 6"	buah	ASTM A53, Sch 40	Rp	1,025,2
	_	Reducer Concentris	Ø	12 x 8"	buah	ASTM A53, Sch 40	Rp	1,025,20
	_	Reducer Concentris	Ø	12 x 10"	buah	ASTM A53, Sch 40	Rp	1,025,20
		Reducer Concentris	Ø	14 x 10"	buah 	ASTM A53, Sch 40	Rp	1,957,33
-	_	Reducer Concentris	Ø	14 x 12"	buah	ASTM A53, Sch 40	Rp	1,957,33
-	_	Reducer Concentris	Ø	16 x 12"	buah	ASTM A53, Sch 40	Rp	3,075,80
	107	Reducer Concentris	Ø	16 x 14"	buah	ASTM A53, Sch 40	Rp	3,075,80
IX.16	JOIN.	TER/COUPLER						
13410	_	Giboult Joint	Ø	2 "	buah	Cast Iron	Rp	157,63
-	_	Giboult Joint	Ø	3 "	buah	Cast Iron	Rp	221,37
	3	Giboult Joint	Ø	4 "	buah	Cast Iron	Rp	354,43
	4	Giboult Joint	Ø	6 "	buah	Cast Iron	Rp	610,96
	5	Giboult Joint Long	Ø	2 "	buah	Cast Iron	Rp	593,10
	6	Giboult Joint Long	Ø	3 "	buah	Cast Iron	Rp	1,428,44
	7	Giboult Joint Long	Ø	4 "	buah	Cast Iron	Rp	2,286,66
	8	Giboult Joint Long	Ø	6 "	buah	Cast Iron	Rp	2,772,77
	9	Giboult Joint Long	Ø	8 "	buah	Cast Iron	Rp	3,533,42
	10	Giboult Joint Long	Ø	10 "	buah	Cast Iron	Rp	4,832,08
	11	Giboult Joint Long	Ø	12 "	buah	Cast Iron	Rp	6,057,83
		Universal Coupling With Grip	Ø	2 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	3,535,07
] ]		Universal Coupling With Grip	Ø	3 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	4,217,96
		Universal Coupling With Grip	Ø	4 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	4,601,86
		Universal Coupling With Grip	Ø	6 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	7,216,56
		Universal Coupling With Grip	Ø	8 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	13,677,63
		Universal Coupling With Grip	Ø	10 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	20,799,46
	_	Universal Coupling With Grip	Ø	12 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	29,234,16
	_	Universal Coupling With Grip	Ø	14 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	82,922,22
		Universal Coupling With Grip	Ø	16 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	91,030,86
	_	Universal Coupling With Grip	Ø	20 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	122,861,27
	_	Universal Coupling With Grip	Ø	24 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	147,121,97
	_	Dismantling Joint	Ø	2 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	7,430,40
		Dismantling Joint	Ø	3 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	9,013,67
	_	Dismantling Joint	Ø	4 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	9,858,74
] ]	_	Dismantling Joint	Ø	6 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	14,768,84
	_	Dismantling Joint	Ø	8 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	19,292,46
		Dismantling Joint	Ø	10 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	25,876,55
ļ		Dismantling Joint	Ø	12 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	30,400,16
		Dismantling Joint	Ø	14 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	37,793,28
	_	Dismantling Joint	Ø	16 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	46,343,41
	_	Dismantling Joint	Ø	20 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	62,803,64
	_	Dismantling Joint	Ø	24 "	buah 	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	76,135,87
-	_	Fleksible Rubber Joint	Ø	2 "	buah	Flange, Double Sphere, EPDM with Reinforce Steel Wire	Rp	755,04
	_	Fleksible Rubber Joint	Ø	3 "	buah 	Flange, Double Sphere, EPDM with Reinforce Steel Wire	Rp	1,237,43
-	_	Fleksible Rubber Joint	Ø	4 "	buah	Flange, Double Sphere, EPDM with Reinforce Steel Wire	Rp	1,614,96
-	_	Fleksible Rubber Joint	Ø	6 "	buah	Flange, Double Sphere, EPDM with Reinforce Steel Wire	Rp	2,642,66
-	_	Fleksible Rubber Joint	Ø	8 "	buah	Flange, Double Sphere, EPDM with Reinforce Steel Wire	Rp	4,278,59
-		Fleksible Rubber Joint Fleksible Rubber Joint	Ø	10 "	buah buah	Flange, Double Sphere, EPDM with Reinforce Steel Wire Flange, Double Sphere, EPDM with Reinforce Steel Wire	Rp Rp	7,005,15 8,452,32
-	40	rieksible Rubbei Joliit	, D	12	Duaii	riange, bouble spriere, Er bivi with Kelmorce steel wife	KΡ	0,432,32
IX.17	FLAN	IGE ADAPTOR				<u> </u>	1	
		Universal Flange Adaptor	Ø	2 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	2,818,95
	_	Universal Flange Adaptor	Ø	3 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	3,444,01
		Universal Flange Adaptor	Ø	4 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	3,847,60
	_	Universal Flange Adaptor	Ø	6 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	6,154,69
	_	Universal Flange Adaptor	Ø	8 "	buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS		
ŀ		Universal Flange Adaptor	Ø	10 "	buah		Rp	10,398,50
	_	Universal Flange Adaptor	Ø			EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp Rp	10,398,50 15,203,39
		* *		12 "	buah			15,203,39
	8	Universal Flange Adaptor	Ø	14 "		EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp	
		Universal Flange Adaptor Universal Flange Adaptor			buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp Rp	15,203,39 21,572,18
•	9		Ø	14 "	buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp Rp Rp	15,203,39 21,572,18 58,067,21
	9	Universal Flange Adaptor	Ø Ø	14 " 16 "	buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp Rp Rp Rp	15,203,39. 21,572,18 58,067,21: 66,973,18
	9	Universal Flange Adaptor Universal Flange Adaptor	Ø Ø Ø	14 " 16 " 20 "	buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp Rp Rp Rp Rp	15,203,39, 21,572,18 58,067,21; 66,973,18 108,879,71;
IX.18	9 10 11 FLAN	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor	Ø Ø Ø	14 " 16 " 20 " 24 "	buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp Rp Rp Rp Rp	15,203,39, 21,572,18 58,067,21; 66,973,18 108,879,71; 129,129,16
IX.18	9 10 11 <b>FLAN</b>	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor  IGED Flanged Steel	Ø Ø Ø Ø	14 " 16 " 20 " 24 "	buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp Rp Rp Rp Rp Rp	15,203,39 21,572,18 58,067,21 66,973,18 108,879,71 129,129,16
IX.18	9 10 11 <b>FLAN</b> 1 2	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor GGED Flanged Steel Flanged Steel	Ø Ø Ø Ø	14 " 16 " 20 " 24 "	buah buah buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS	Rp Rp Rp Rp Rp Rp	15,203,39 21,572,18 58,067,21 66,973,18 108,879,71 129,129,16
IX.18	9 10 11 <b>FLAN</b> 1 2 3	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor  GED Flanged Steel Flanged Steel Flanged Steel Flanged Steel	Ø Ø Ø Ø Ø	14 " 16 " 20 " 24 "  2 " 3 " 4 "	buah buah buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS  ISO 7005, EN 1092 ISO 7005, EN 1092 ISO 7005, EN 1092	Rp	15,203,39 21,572,18 58,067,21 66,973,18 108,879,71 129,129,16 132,43 190,60 215,07
IX.18	9 10 11 <b>FLAN</b> 1 2 3 4	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor  IGED Flanged Steel Flanged Steel Flanged Steel Flanged Steel Flanged Steel Flanged Steel	Ø Ø Ø Ø Ø Ø	14 * 16 * 20 * 24 * 2 " 3 * 4 * 6 * "	buah buah buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS  ISO 7005, EN 1092 ISO 7005, EN 1092 ISO 7005, EN 1092 ISO 7005, EN 1092	Rp	15,203,39 21,572,18 58,067,21 66,973,18 108,879,71 129,129,16 132,43 190,60 215,07 372,82
IX.18	9 10 11 <b>FLAN</b> 1 2 3 4 5	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor  IGED Flanged Steel	Ø Ø Ø Ø Ø Ø	14 " 16 " 20 " 24 "  2 " 3 " 4 " 6 " 8 "	buah buah buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS  ISO 7005, EN 1092	Rp	15,203,39 21,572,18 58,067,21 66,973,18 108,879,71 129,129,16 132,43 190,60 215,07 372,82 535,93
IX.18	9 10 11 <b>FLAN</b> 1 2 3 4 5 6	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor  IGED Flanged Steel	Ø Ø Ø Ø Ø Ø Ø Ø Ø	14 " 16 " 20 " 24 "  2 " 3 " 4 " 6 " 8 "	buah buah buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS ISO 7005, EN 1092	Rp R	15,203,39 21,572,18 58,067,21 66,973,18 108,879,71 129,129,16 132,43 190,60 215,07 372,82 535,93 765,06
IX.18	9 10 11 1 2 3 4 5 6 7	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor  IGED Flanged Steel	Ø Ø Ø Ø Ø Ø Ø	14 " 16 " 20 " 24 "  2 " 3 " 4 " 6 " 8 " 10 "	buah buah buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS  ISO 7005, EN 1092	Rp	15,203,39 21,572,18 58,067,21 66,973,18 108,879,71 129,129,16 132,43 190,60 215,07 372,82 535,93 765,06 1,021,38
IX.18	9 10 11 1 2 3 4 5 6 7 8	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor  GED Flanged Steel	0 0 0 0 0	14 " 16 " 20 " 24 "  2 " 3 " 4 " 6 " 8 " 10 " 12 "	buah buah buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS  ISO 7005, EN 1092	Rp R	15,203,39 21,572,18 58,067,21 66,973,18 108,879,71 129,129,16 132,43 190,60 215,07 372,82 535,93 755,06 1,021,38
IX.18	9 10 11 11 2 3 4 5 6 7 8 9	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor  GED Flanged Steel	0 0 0 0 0 0 0 0 0 0 0	14 " 16 " 20 " 24 "  2 " 3 " 4 " 6 " 8 " 10 " 12 " 14 "	buah buah buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS  ISO 7005, EN 1092	Rp R	15,203,39 21,572,18 58,067,21 58,067,21 108,879,71,11 129,129,16 132,43 190,60 215,07 372,82 535,93 765,06 1,021,33 1,433,04 2,027,23
IX.18	9 10 11 1 2 3 4 5 6 7 8 9 10	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor  IGED Flanged Steel	0 0 0 0 0 0 0 0 0 0 0	14 ° 16 ° 20 ° 24 °  2 " 3 " 4 " 6 " 8 " 10 ° 12 * 14 ° 16 ° 20 °	buah buah buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS  ISO 7005, EN 1092	Rp R	15,203,39 21,572,18 58,067,21 66,973,18 108,879,71 129,129,16 132,43 132,43 132,43 132,43 132,43 132,43 143,00 145
IX.18	9 10 11 11 2 3 4 5 6 7 8 9 10	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor  IGED Flanged Steel	0 0 0 0 0 0 0 0 0 0 0 0 0	14 * 16 " 20 " 24 " 24 " 4 " 6 " 8 " 10 " 12 " 14 " 16 " 20 " 24 "	buah buah buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS  ISO 7005, EN 1092	Rp R	15,203,39 21,572,18 58,067,21 58,067,21 66,973,18 108,879,71 129,129,16 132,43 190,60 215,07 372,82 535,93 765,06 1,021,38 1,433,04 2,376,38 5,437,03
IX.18	9 10 11 2 3 4 5 6 7 8 9 10 11 12	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor  IGED Flanged Steel	Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø	14 ° 16 ° 20 ° 24 °  2 ° 3 ° 4 ° 6 ° 8 ° 10 ° 12 ° 14 ° 16 ° 20 ° 24 ° 2 °	buah buah buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS  ISO 7005, EN 1092	Rp R	15,203,39 21,572,18 58,067,21 66,973,18 108,879,71 129,129,16 132,43 190,60 215,07 372,82 535,93 765,06 1,021,38 1,433,04 2,027,38 3,543,03 2,027,38 3,543,03 2,027,38
IX.18	9 10 11 2 3 4 5 6 7 8 9 10 11 12 13	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor  GED Flanged Steel Flanged Blank Steel Flanged Blank Steel Flanged Blank Steel		14 * 16 * 20 * 24 * 2 * 3 * 4 * 16 * 20 * 24 * 2 * 2 * 2 * 2 * 2 * 2 * 2 * 2 *	buah buah buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS  ISO 7005, EN 1092	Rp R	15,203,39 21,572,18 58,067,21 58,067,21 108,879,71 129,129,16 1129,129,16 1129,129,16 1129,129,16 1121,372,82 1132,43
IX.18	9 10 11 2 3 4 5 6 7 8 9 10 11 12 13 14	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor  Flanged Steel Flanged Flanged Steel Flanged Flank Steel Flanged Flank Steel		14 " 16 " 20 " 24 "  2 " 3 " 4 " 6 " 8 " 10 " 12 " 14 " 16 " 20 " 24 " 2 " 3 " 4 "	buah buah buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS  ISO 7005, EN 1092	Rp R	15,203,39 21,572,18 58,067,21 58,067,21 108,879,71,11 129,129,16 132,433 190,66 215,07 372,82 535,93 765,06 1,021,33 1,433,04 2,027,23 3,763,82 5,437,03 220,23 257,24 321,56
IX.18	9 10 11 11 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor  IGED Flanged Steel Flanged Blank Steel		14 ° 16 ° 20 ° 24 °  2 " 3 " 4 " 6 " 8 " 10 ° 12 ° 14 ° 16 ° 20 ° 24 ° 2 " 3 " 4 " 6 "	buah buah buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS  ISO 7005, EN 1092	Rp R	15,203,39 21,572,18 58,067,21 58,067,21 108,879,71 129,129,16 129,129,16 129,129,16 132,42 190,60 215,07 372,82 765,06 1,021,38 1,433,04 2,027,23 3,763,82 5,437,03 220,23 220,23 221,24 421,60
IX.18	9 10 11 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor  IGED Flanged Steel Flanged Flan		14 " 16 " 20 " 24 "  2 " 3 " 4 " 6 " 8 " 10 " 12 " 14 " 16 " 20 " 24 " 2 " 3 " 4 " 6 " 8 "	buah buah buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS  ISO 7005, EN 1092	Rp R	15,203,39 21,572,18 58,067,21 58,067,21 58,067,21 108,79,71 129,129,16 1129,1729,1729,1729,1729,1729,1729,1729,
IX.18	9 10 11 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor  IGED Flanged Steel Flanged Bteel Flanged Flanged Flanged Flanged Flanged Flanged Flanged Flanged Blank Steel		14 * 16 * 20 * 24 * 2 * 3 * 4 * 16 * 20 * 24 * 2 * 3 * 4 * 16 * 20 * 24 * 2 * 2 * 3 * 4 * 16 * 20 * 24 * 2 * 2 * 3 * 4 * 16 * 20 * 24 * 2 * 2 * 3 * 4 * 10 * 20 * 20 * 20 * 20 * 20 * 20 * 20	buah buah buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS  ISO 7005, EN 1092	Rp R	15,203,39 21,572,18 58,067,21 58,067,21 108,8797,17 129,129,16 132,43 190,66 215,07 372,82 535,33 765,06 1,021,38 1,433,04 2,027,23 3,763,82 240,23 257,24 321,56 421,60 573,99 1,064,72
IX.18	9 10 11 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor  Flanged Steel Flanged Flank Steel		14 ° 16 ° 20 ° 24 °  2 " 3 " 4 " 6 ° 8 " 10 ° 12 ° 24 °  3 " 4 " 16 ° 20 ° 24 ° 3 " 4 " 6 ° 8 " 10 ° 11 ° 12 ° 13 ° 14 ° 15 ° 16 ° 17 ° 18 ° 18 ° 10 ° 10 ° 11 ° 12 °	buah buah buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS  ISO 7005, EN 1092	Rp R	15,203,35 21,572,18 58,067,21 58,067,21 108,879,71 129,129,16 129,129,16 129,129,16 129,129,16 132,43 14,33,04 1,021,33 1,433,04 2,027,23 2,07,23 2,07,23 2,07,23 2,07,23 1,07,13 1,07
IX.18	9 10 11 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor  Flanged Steel Flanged Flank Steel Flanged Flank Flank Flanged Flank Flank Flanged Flank F		14 " 16 " 20 " 24 "  2 " 3 " 4 " 6 " 8 " 10 " 12 " 14 " 16 " 20 " 24 " 3 " 4 " 6 " 8 " 10 " 10 " 11 " 11 " 11 " 11 " 11 " 11	buah buah buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS  ISO 7005, EN 1092	Rp R	15,203,39 21,572,18 58,067,21 58,067,21 108,8797,17 129,129,16 129,129,16 215,07 372,82 535,93 765,06 1,021,38 1,433,04 2,027,23 3,763,82 5,437,03 220,23 257,24 421,66 573,99 1,067,26 1,077,39 1,077,30
IX.18	9 10 11 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor  IGED Flanged Steel Flanged Flanged Flanged Flanged Flanged Flanged Flanged Blank Steel		14 ° 16 ° 20 ° 24 °  2 " 3 " 4 ° 6 " 8 " 10 ° 12 ° 14 ° 16 ° 20 ° 24 ° 3 " 4 ° 10 ° 11 ° 12 ° 13 ° 14 ° 16 ° 20 ° 21 ° 22 ° 3 ° 4 ° 4 ° 6 ° 8 ° 8 ° 10 ° 12 ° 12 ° 13 ° 14 ° 15 ° 16 ° 20 °	buah buah buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS  ISO 7005, EN 1092	Rp R	15,203,39 21,572,18 58,067,21 58,067,21 58,067,21 108,879,71 129,129,16 1129,129,16 1129,129,16 1129,129,16 1129,129,16 1129,129,16 1129,129,16 1121,38 11433,04 1143
1X.18	9 10 11 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor  Flanged Steel Flanged Flank Steel Flanged Flank Flank Flanged Flank Flank Flanged Flank F		14 " 16 " 20 " 24 "  2 " 3 " 4 " 6 " 8 " 10 " 12 " 14 " 16 " 20 " 24 " 3 " 4 " 6 " 8 " 10 " 10 " 11 " 11 " 11 " 11 " 11 " 11	buah buah buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS  ISO 7005, EN 1092	Rp R	15,203,39 21,572,18 58,067,21 58,067,21 58,067,21 108,879,71 129,129,16 1129,129,16 1129,129,16 1129,129,16 1129,129,16 1129,129,16 1129,129,16 1121,38 11433,04 1143
	9 10 11 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor  IGED Flanged Steel Flanged Bteel Flanged Blank Steel		14 ° 16 ° 20 ° 24 °  2 " 3 " 4 ° 6 " 8 " 10 ° 12 ° 14 ° 16 ° 20 ° 24 ° 3 " 4 ° 10 ° 11 ° 12 ° 13 ° 14 ° 16 ° 20 ° 21 ° 22 ° 3 ° 4 ° 4 ° 6 ° 8 ° 8 ° 10 ° 12 ° 12 ° 13 ° 14 ° 15 ° 16 ° 20 °	buah buah buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS  ISO 7005, EN 1092	Rp R	15,203,39 21,572,18 58,067,21 58,067,21 58,067,21 108,879,71 129,129,16 1129,129,16 1129,129,16 1129,129,16 1129,129,16 1129,129,16 1129,129,16 1121,38 11433,04 1143
	9 10 11 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor Flanged Steel Flanged		14 ° 16 ° 20 ° 24 °  2 " 3 " 4 " 6 ° 8 " 10 ° 12 ° 14 " 16 ° 20 ° 24 " 3 " 4 " 6 ° 8 " 10 ° 12 ° 12 ° 14 ° 16 ° 20 ° 24 ° 24 ° 25 ° 26 ° 27 ° 28 ° 29 ° 24 ° 20 ° 24 ° 20 ° 24 ° 20 ° 24 °	buah buah buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS  ISO 7005, EN 1092	Rp R	15,203,39 21,572,18 58,067,21 58,067,21 108,879,71 129,129,16 215,07 372,82 535,93 765,06 1,021,38 1,433,04 2,027,23 3,763,82 5,437,03 22,03 22,57,24 321,56 421,60 573,93 1,044,72 1,679,26 2,312,67 4,709,80 6,462,30
	9 10 11 2 3 4 5 6 6 7 8 8 9 10 11 11 12 13 14 15 16 17 18 19 20 21 PACK	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor  Flanged Steel Flanged Flank Steel Flank Flank Steel Flank		14 ° 16 ° 20 ° 24 °  2 " 3 " 4 " 6 " 8 " 10 ° 12 " 24 " 20 ° 24 " 3 " 4 " 6 " 8 " 10 ° 20 ° 24 " 2 " 3 " 4 " 5 mm	buah buah buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS  ISO GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS  ISO 7005, EN 1092	Rp R	15,203,39 21,572,18 58,067,21 58,067,21 58,067,21 108,879,71 129,129,16 129,129,16 132,42 190,60 215,07 372,82 765,06 1,021,38 1,433,04 2,037,23,3 2,037,33,3,3 2,037,33,3 2,037,33,3 2,037,33,3 2,037,33,3 2,037,33,3 2,037,33,3 2,037,33,3 2,037,33,3 2,037,33,3 2,037,33,3 2,037,33,3 2,037
	9 10 11 1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18 19 20 21	Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor Universal Flange Adaptor Flanged Steel Flanged		14 ° 16 ° 20 ° 24 °  2 " 3 " 4 " 6 ° 8 " 10 ° 12 ° 14 " 16 ° 20 ° 24 " 3 " 4 " 6 ° 8 " 10 ° 12 ° 12 ° 14 ° 16 ° 20 ° 24 ° 24 ° 25 ° 26 ° 27 ° 28 ° 29 ° 24 ° 20 ° 24 ° 20 ° 24 ° 20 ° 24 °	buah buah buah buah buah buah buah buah	EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS EN GJS 450/500, PN 16, Caoting Rilsan Nylon 11, EPDM, WRAS  ISO 7005, EN 1092	Rp R	15,203,39 21,572,18 58,067,21 58,067,21 108,879,71 129,129,16 215,07 372,82 535,93 765,06 1,021,38 1,433,04 2,027,23 3,763,82 5,437,03 22,03 22,57,24 321,56 421,60 573,93 1,044,72 1,679,26 2,312,67 4,709,80 6,462,30

		DAFIAK STAI	NDAK 5	ATUAN HAKG	A PIPA C	k AKSESORIS 2022-2023	1	
NO		NAMA BARANG			SATUAN	SPESIFIKASI	HA	RGA 2023
	4	Packing Karet	Ø	4 "	buah	EPDM	Rp	42,8
		Packing Karet	Ø	6 "	buah	EPDM	Rp	50,0
	7	Packing Karet Packing Karet	Ø	8 "	buah buah	EPDM EPDM	Rp Rp	57,1 67,8
	_	Packing Karet	ø	12 "	buah	EPDM EPDM	Rp	92,8
							r	
X.20		MP SADDLE						
	1		Ø	1½ X ½ "	buah	SNI 4829.2.2015	Rp	33,7
	3	Clamp Saddle HDPE Clamp Saddle HDPE	Ø	1½ X¾ " 2 X½ "	buah buah	SNI 4829.2.2015 SNI 4829.2.2015	Rp Rp	35,0 45,0
	4	Clamp Saddle HDPE	Ø	2 X ½ 2 X ¾ "	buah	SNI 4829.2.2015	Rp	45,0
Ì	5	Clamp Saddle HDPE	Ø	2 X 1 "	buah	SNI 4829.2.2015	Rp	48,3
	6	Clamp Saddle HDPE	Ø	2 X 1½ "	buah	SNI 4829.2.2015	Rp	50,2
	7	Clamp Saddle HDPE	Ø	3 X 1/2 "	buah	SNI 4829.2.2015	Rp	85,6
ŀ	9	Clamp Saddle HDPE	Ø	3 X ¾ " 3 X 1 "	buah	SNI 4829.2.2015 SNI 4829.2.2015	Rp	87,4 90,4
ŀ	10	Clamp Saddle HDPE Clamp Saddle HDPE	Ø	3 X 1½ "	buah buah	SNI 4829.2.2015	Rp Rp	94,9
Ì	11	Clamp Saddle HDPE	Ø	4 X 1/2 "	buah	SNI 4829.2.2015	Rp	108,
	12	Clamp Saddle HDPE	Ø	4 X ¾ "	buah	SNI 4829.2.2015	Rp	109,8
	13	Clamp Saddle HDPE	Ø	4 X 1 "	buah	SNI 4829.2.2015	Rp	112,2
	14	Clamp Saddle HDPE	Ø	4 X 1½ "	buah	SNI 4829.2.2015	Rp	116,3
	15	Clamp Saddle HDPE Clamp Saddle HDPE	Ø	4 X 2 " 6 X ½ "	buah buah	SNI 4829.2.2015	Rp	124,3
ŀ	16 17	Clamp Saddle HDPE	Ø	6 X ½ "	buah	SNI 4829.2.2015 SNI 4829.2.2015	Rp Rp	198,5 198,5
ŀ	18	Clamp Saddle HDPE	Ø	6 X 1 "	buah	SNI 4829.2.2015	Rp	198,5
į	19	Clamp Saddle HDPE	Ø	6 X 1½ "	buah	SNI 4829.2.2015	Rp	198,
[	20	Clamp Saddle HDPE	Ø	6 X 2 "	buah	SNI 4829.2.2015	Rp	205,
	21	Clamp Saddle HDPE	Ø	8 X ¾ "	buah	SNI 4829.2.2015	Rp	345,
ŀ	22	Clamp Saddle HDPE Clamp Saddle HDPE	Ø	8 x 1 " 8 X 1½ "	buah buah	SNI 4829.2.2015 SNI 4829.2.2015	Rp Rp	348, 351,
ŀ	24	Clamp Saddle HDPE	Ø	8 x 1½ "	buah	SNI 4829.2.2015 SNI 4829.2.2015	Rp	351,
ŀ	25	Clamp Saddle HDPE	Ø	8 x 3 "	buah	SNI 4829.2.2015	Rp	371,
	26	Clamp Saddle HDPE	Ø	10 X ¾ "	buah	SNI 4829.2.2015	Rp	715,
	27	Clamp Saddle HDPE	Ø	10 x 1 "	buah	SNI 4829.2.2015	Rp	731,
ŀ	28	Clamp Saddle HDPE	Ø	10 X 1½ "	buah	SNI 4829.2.2015	Rp	751,
ŀ	29 30	Clamp Saddle HDPE Clamp Saddle HDPE	Ø	10 x 2 "	buah buah	SNI 4829.2.2015 SNI 4829.2.2015	Rp Rp	757,i 774,i
ŀ	31	Clamp Saddle CI	ø	1½ X ½ "	buah	Cast Iron	Rp	40,
ľ	32	Clamp Saddle CI	Ø	1½ X ¾ "	buah	Cast Iron	Rp	42,
	33	Clamp Saddle CI	Ø	2 X 1/2 "	buah	Cast Iron	Rp	52,
	34	Clamp Saddle CI	Ø	2 X ¾ "	buah	Cast Iron	Rp	50,
	35	Clamp Saddle CI	Ø	2 X 1 "	buah	Cast Iron	Rp	57,
	36 37	Clamp Saddle Cl	Ø	2 X 1½ " 3 X ½ "	buah	Cast Iron	Rp	68,
ŀ	38	Clamp Saddle CI Clamp Saddle CI	Ø	3 X ¾ "	buah buah	Cast Iron Cast Iron	Rp Rp	64,
	39	Clamp Saddle CI	Ø	3 X 1 "	buah	Cast Iron	Rp	66,
ľ	40	Clamp Saddle CI	Ø	3 X 1½ "	buah	Cast Iron	Rp	112
	41	Clamp Saddle CI	Ø	4 X 1/2 "	buah	Cast Iron	Rp	73
	42	Clamp Saddle CI	Ø	4 X ¾ "	buah	Cast Iron	Rp	75
	43	Clamp Saddle CI Clamp Saddle CI	Ø	4 X 1 " 4 X 1½ "	buah	Cast Iron	Rp	89 144
ŀ	45	Clamp Saddle Cl	Ø	4 X 1 72 4 X 2 "	buah buah	Cast Iron	Rp Rp	202
ŀ	46	Clamp Saddle CI	Ø	6 X ½ "	buah	Cast Iron	Rp	108
İ	47	Clamp Saddle CI	Ø	6 X ¾ "	buah	Cast Iron	Rp	110
	48	Clamp Saddle CI	Ø	6 X 1 "	buah	Cast Iron	Rp	148
	49	Clamp Saddle CI	Ø	6 X 1½ "	buah	Cast Iron	Rp	190
ŀ	50	Clamp Saddle Cl	Ø	6 X 2 " 8 X ¾ "	buah	Cast Iron	Rp	169
ŀ	51 52	Clamp Saddle CI Clamp Saddle CI	Ø	8 x 1 "	buah buah	Cast Iron Cast Iron	Rp Rp	194 201
ŀ	53	Clamp Saddle CI	Ø	8 X 1½ "	buah	Cast Iron	Rp	267
İ	54	Clamp Saddle CI	Ø	8 x 2 "	buah	Cast Iron	Rp	357
	55	Clamp Saddle CI	Ø	8 x 3 "	buah	Cast Iron	Rp	291
	56	Universal Tapping Saddle	Ø	10 x 2 "	buah	Cast Iron, GGG 50, Epoxy Coating, EPDM	Rp	10,645
ŀ	57 58	Universal Tapping Saddle	Ø	12 x 2 " 16 x 2 "	buah buah	Cast Iron, GGG 50, Epoxy Coating, EPDM	Rp Rp	11,134 12,241
	59	Universal Tapping Saddle Universal Tapping Saddle	Ø	20 x 2 "	buah	Cast Iron, GGG 50, Epoxy Coating, EPDM  Cast Iron, GGG 50, Epoxy Coating, EPDM	Rp	13,412
	60	Universal Tapping Saddle	Ø	24 x 2 "	buah	Cast Iron, GGG 50, Epoxy Coating, EPDM	Rp	14,520
	61	Universal Tapping Saddle	Ø	10 x 3 "	buah	Cast Iron, GGG 50, Epoxy Coating, EPDM	Rp	12,029
	62	Universal Tapping Saddle	Ø	12 x 3 "	buah	Cast Iron, GGG 50, Epoxy Coating, EPDM	Rp	12,667
	63	Universal Tapping Saddle	Ø	16 x 3 "	buah	Cast Iron, GGG 50, Epoxy Coating, EPDM	Rp	14,158
	64	Universal Tapping Saddle	Ø	20 x 3 "	buah	Cast Iron, GGG 50, Epoxy Coating, EPDM	Rp	15,648
ŀ	65 66	Universal Tapping Saddle Universal Tapping Saddle	Ø	24 x 3 " 10 x 4 "	buah buah	Cast Iron, GGG 50, Epoxy Coating, EPDM Cast Iron, GGG 50, Epoxy Coating, EPDM	Rp Rp	16,649 12,582
ŀ	67	Universal Tapping Saddle Universal Tapping Saddle	Ø	10 x 4 "	buah	Cast Iron, GGG 50, Epoxy Coating, EPDM  Cast Iron, GGG 50, Epoxy Coating, EPDM	Rp	13,412
Ì	68	Universal Tapping Saddle	Ø	16 x 4 "	buah	Cast Iron, GGG 50, Epoxy Coating, EPDM	Rp	15,222
İ	69	Universal Tapping Saddle	Ø	20 x 4 "	buah	Cast Iron, GGG 50, Epoxy Coating, EPDM	Rp	15,861
ļ	70	Universal Tapping Saddle	Ø	24 x 4 "	buah	Cast Iron, GGG 50, Epoxy Coating, EPDM	Rp	17,883
_		AID CLAMP						
21		AIR CLAMP	a	2 "	b	CC20/4 DI IRRED EDDM	De-	1 555
ŀ		Repair Clamp 190 mm Repair Clamp 250 mm	Ø	2 "	buah buah	SS304, RUBBER EPDM SS304, RUBBER EPDM	Rp Rp	1,553 2,572
ŀ	3	Repair Clamp 400 mm	Ø	2 "	buah	SS304, RUBBER EPDM	Rp	3,020
Ì		Repair Clamp 190 mm	Ø	3 "	buah	SS304, RUBBER EPDM	Rp	1,64
Į		Repair Clamp 250 mm	Ø	3 "	buah	SS304, RUBBER EPDM	Rp	2,769
		Repair Clamp 400 mm	Ø	3 "	buah	SS304, RUBBER EPDM	Rp	3,285
	7	Repair Clamp 190 mm	Ø	4 "	buah	SS304, RUBBER EPDM	Rp	1,757
ŀ	8	Repair Clamp 250 mm	Ø	4 "	buah	SS304, RUBBER EPDM	Rp	2,908
	9 10	Repair Clamp 400 mm Repair Clamp 250 mm	Ø	4 " 6 "	buah buah	SS304, RUBBER EPDM SS304, RUBBER EPDM	Rp Rp	3,523 3,355
Į.		1						
ŀ	11	Repair Clamp 400 mm	Ø	6 "	buah	SS304, RUBBER EPDM	Rp	4,026

		DAFTAR STA	NDAR	SATUAN HARG	A PIPA 8	k AKSESORIS 2022-2023		
NO		NAMA BARANG			SATUAN	SPESIFIKASI	НА	RGA 2023
	13	Repair Clamp 600 mm	Ø	8 "	buah	SS304, RUBBER EPDM	Rp	11,745,167
	14	Repair Clamp 400 mm	Ø	10 "	buah	SS304, RUBBER EPDM	Rp	9,396,13
	-	Repair Clamp 600 mm	Ø	10 "	buah	SS304, RUBBER EPDM	Rp	19,351,56
	-	Repair Clamp 400 mm	Ø	12 "	buah	SS304, RUBBER EPDM	Rp	11,745,16
	-	Repair Clamp 600 mm Repair Clamp 400 mm	Ø	12 " 14 "	buah buah	SS304, RUBBER EPDM SS304, RUBBER EPDM	Rp Rp	21,588,73
	-	Repair Clamp 400 mm	Ø	16 "	buah	SS304, RUBBER EPDM	Rp	31,320,44
	-	Repair Clamp 445 mm	Ø	20 "	buah	DCI Lugs, SS304, RUBBER EPDM	Rp	30,201,85
		Repair Clamp 445 mm	Ø	24 "	buah	DCI Lugs, SS304, RUBBER EPDM	Rp	45,862,08
IX.22		AINER				I		
	-	Y Strainer	Ø	3 "	buah	Flange PN16, Cast Iron GG25, SS304, Epoxy Coating	Rp	748,33
	-	Y Strainer Y Strainer	ø	4 "	buah buah	Flange PN16, Cast Iron GG25, SS304, Epoxy Coating Flange PN16, Cast Iron GG25, SS304, Epoxy Coating	Rp Rp	1,049,23
	-	Y Strainer	ø	6 "	buah	Flange PN16, Cast Iron GG25, SS304, Epoxy Coating	Rp	2,862,46
	-	Y Strainer	Ø	8 "	buah	Flange PN16, Cast Iron GG25, SS304, Epoxy Coating	Rp	5,245,05
	6	Y Strainer	Ø	10 "	buah	Flange PN16, Cast Iron GG25, SS304, Epoxy Coating	Rp	7,264,10
		T Strainer	Ø	2 "	buah	Flange PN16, Cast Iron GG25, SS304, Epoxy Coating	Rp	3,915,05
	-	T Strainer	Ø	3 "	buah	Flange PN16, Cast Iron GG25, SS304, Epoxy Coating	Rp	4,362,49
	-	T Strainer	Ø	4 "	buah	Flange PN16, Cast Iron GG25, SS304, Epoxy Coating	Rp	6,040,37
		T Strainer T Strainer	Ø	6 " 8 "	buah buah	Flange PN16, Cast Iron GG25, SS304, Epoxy Coating Flange PN16, Cast Iron GG25, SS304, Epoxy Coating	Rp Rp	9,731,71
	-	T Strainer	ø	10 "	buah	Flange PN16, Cast Iron GG25, SS304, Epoxy Coating	Rp	22,483,60
						,g	1.46	,,
IX.23	VALV	/E SOCKET						
	-	Valve Socket PVC Drat Dalam	Ø	1/2"	buah	SNI 06.0084.2002	Rp	2,85
	-	Valve Socket PVC Drat Dalam	Ø	3/4"	buah	SNI 06.0084.2002	Rp	6,43
	-	Valve Socket PVC Drat Dalam	Ø	1"	buah	SNI 06.0084.2002	Rp	10,00
	-	Valve Socket PVC Drat Dalam  Valve Socket PVC Drat Dalam	Ø	1 ½"	buah buah	SNI 06.0084.2002 SNI 06.0084.2002	Rp Rn	21,43
	-	Valve Socket PVC Drat Dalam  Valve Socket PVC Drat Luar	Ø	1/2"	buah	SNI 06.0084.2002 SNI 06.0084.2002	Rp Rp	32,87° 2,85°
		Valve Socket PVC Drat Luar	ø	3/4"	buah	SNI 06.0084.2002 SNI 06.0084.2002	Rp	6,43
	8	Valve Socket PVC Drat Luar	Ø	1"	buah	SNI 06.0084.2002	Rp	10,00-
	9	Valve Socket PVC Drat Luar	Ø	1 1/2"	buah	SNI 06.0084.2002	Rp	21,43
	10	Valve Socket PVC Drat Luar	Ø	2 "	buah	SNI 06.0084.2002	Rp	32,87
IX.24	_	BLE NIPPLE	Ø	1/2"	huah	CNII 0120 - 2009 ISO 7 1	Dec	7,76
		Double Nipple GI Double Nipple GI	Ø	3/4"	buah buah	SNI 0139 : 2008, ISO 7-1 SNI 0139 : 2008, ISO 7-1	Rp Rp	9,32
	_	Double Nipple GI	ø	1"	buah	SNI 0139 : 2008, ISO 7-1	Rp	15,534
		Double Nipple GI	Ø	1 1/2"	buah	SNI 0139 : 2008, ISO 7-1	Rp	23,302
	5	Double Nipple GI	Ø	2 "	buah	SNI 0139 : 2008, ISO 7-1	Rp	31,069
IX.25	-	ER MOER			T	Ta	+	
	-	Water Moer GI	Ø	1/2" 3/4"	buah	SNI 0139 : 2008, ISO 7-1	Rp	25,702
		Water Moer GI Water Moer GI	Ø	1 "	buah buah	SNI 0139 : 2008, ISO 7-1 SNI 0139 : 2008, ISO 7-1	Rp Rp	30,786 40,652
	-	Water Moer GI	ø	1 1/2"	buah	SNI 0139 : 2008, ISO 7-1	Rp	67,916
		Water Moer GI	Ø	2 "	buah	SNI 0139 : 2008, ISO 7-1	Rp	104,505
IX.26	SOCK							
		Sock Galvanis	Ø	1/2"		SNI 0139 : 2008, ISO 7-1	Rp	5,86
		Sock Galvanis Sock Galvanis	Ø	3¼" 1 "	buah buah	SNI 0139 : 2008, ISO 7-1 SNI 0139 : 2008, ISO 7-1	Rp Rp	9,432
	-	Sock Galvanis	ø	1 1/2"	buah	SNI 0139 : 2008, ISO 7-1	Rp	19,58
		Sock Galvanis	Ø	2 "	buah	SNI 0139 : 2008, ISO 7-1	Rp	66,74
	6	Sock Push On HDPE	Ø	1/2"	buah	ISO 14236.2000	Rp	18,48
	_	Sock Push On HDPE	Ø	3/4"	buah	ISO 14236.2000	Rp	23,93
	8	Sock Push On HDPE	Ø	1 "	buah	ISO 14236.2000	Rp	29,65
IV 25	V==-	On					-	
IX.27	VERL 1	.OP Reducer Socket Push on HDPE	Ø	3/4 x 1/2	buah	ISO 14236.2000	Rp	21,276
	-	Reducer Socket Push on HDPE	ø	1 x ½	buah	ISO 14236.2000	Rp	25,398
	-	Reducer Socket Push on HDPE	Ø	1 x ¾	buah	ISO 14236.2000	Rp	28,05
		Male coupling Push on (shock drat luar)	Ø	1/2"	buah	ISO 14236.2000, Plastic Thread	Rp	10,77
		Male coupling Push on (shock drat luar)	Ø	3/4"	buah	ISO 14236.2000, Plastic Thread	Rp	19,148
	6	Male coupling Push on (shock drat luar)	Ø	1"	buah	ISO 14236.2000, Plastic Thread	Rp	19,54
Ì	_	Female coupling Push on (shock drat luar)	Ø	1/2"	buah	ISO 14236.2000, Plastic Thread ISO 14236.2000, Plastic Thread	Rp	14,49
			a		la I-		Rp	18,74
	8	Female coupling Push on (shock drat luar)	Ø	3/4"	buah			3U %E
	8 9	Female coupling Push on (shock drat luar) Female coupling Push on (shock drat luar)	Ø	1 "	buah	ISO 14236.2000, Plastic Thread	Rp	
	8 9 10	Female coupling Push on (shock drat luar)			_			37,76
	8 9 10 11 12	Female coupling Push on (shock drat luar) Female coupling Push on (shock drat luar) Male coupling Push on (shock drat luar)	Ø Ø	1 " ½"	buah buah	ISO 14236.2000, Plastic Thread ISO 14236.2000, Brass Thread	Rp Rp	37,76 46,14 60,37
	8 9 10 11 12 13	Female coupling Push on (shock drat luar) Female coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Female coupling Push on (shock drat luar)	Ø Ø Ø Ø	1" ½" ¾" 1" ½"	buah buah buah buah buah	ISO 14236.2000, Plastic Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread	Rp Rp Rp	37,76: 46,14: 60,37: 29,25-
	8 9 10 11 12 13 14	Female coupling Push on (shock drat luar) Female coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Female coupling Push on (shock drat luar) Female coupling Push on (shock drat luar)	Ø Ø Ø Ø Ø	1"  ½"  ¾"  1"  ½"  ¾"	buah buah buah buah buah	ISO 14236.2000, Plastic Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread	Rp Rp Rp Rp Rp Rp	37,76: 46,14: 60,37( 29,25- 38,43(
	8 9 10 11 12 13 14	Female coupling Push on (shock drat luar) Female coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Female coupling Push on (shock drat luar)	Ø Ø Ø Ø	1" ½" ¾" 1" ½"	buah buah buah buah buah	ISO 14236.2000, Plastic Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread	Rp Rp Rp Rp Rp	37,76: 46,14: 60,37( 29,25- 38,43(
JY 28	8 9 10 11 12 13 14 15	Female coupling Push on (shock drat luar) Female coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Female coupling Push on (shock drat luar) Female coupling Push on (shock drat luar) Female coupling Push on (shock drat luar)	Ø Ø Ø Ø Ø	1"  ½"  ¾"  1"  ½"  ¾"	buah buah buah buah buah	ISO 14236.2000, Plastic Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread	Rp Rp Rp Rp Rp Rp	37,76: 46,14: 60,37( 29,25- 38,43(
IX.28	8 9 10 11 12 13 14 15	Female coupling Push on (shock drat luar) Female coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Female coupling Push on (shock drat luar)	Ø Ø Ø Ø Ø	1"  ½"  ¾"  1"  ½"  ¾"	buah buah buah buah buah	ISO 14236.2000, Plastic Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread	Rp Rp Rp Rp Rp Rp	37,76: 46,14: 60,37( 29,25: 38,43( 63,96)
IX.28	8 9 10 11 12 13 14 15 <b>STUB</b>	Female coupling Push on (shock drat luar) Female coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Female coupling Push on (shock drat luar) Female coupling Push on (shock drat luar) Female coupling Push on (shock drat luar)	Ø Ø Ø Ø Ø	1" ½" ½" 1" ½" 34" 1" ½" 1" 1"	buah buah buah buah buah buah buah buah	ISO 14236.2000, Plastic Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread	Rp Rp Rp Rp Rp Rp Rp	37,76 46,14: 60,37! 29,25: 38,43! 63,96
1X.28	8 9 10 11 12 13 14 15 <b>STUB</b>	Female coupling Push on (shock drat luar) Female coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Female coupling Push on (shock drat luar)  3 FLANGE Stub Flange HDPE	Ø Ø Ø Ø Ø Ø Ø Ø	1" ½" ¼" 1" ½" ¾" 1" ½"	buah buah buah buah buah buah buah buah	ISO 14236.2000, Plastic Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread	Rp Rp Rp Rp Rp Rp Rp	37,76: 46,14: 60,37: 29,25: 38,43: 63,96: 217,11: 269,78:
IX.28	8 9 10 11 12 13 14 15 <b>STUB</b> 1 3 4	Female coupling Push on (shock drat luar)  Female coupling Push on (shock drat luar)  Male coupling Push on (shock drat luar)  Male coupling Push on (shock drat luar)  Male coupling Push on (shock drat luar)  Female Hope  Stub Flange HDPE  Stub Flange HDPE	Ø Ø Ø Ø Ø Ø	1" ½" ½" ½" ½" ½" ½" ½" ½" ¼" 1 " 2 " 3 " 4 " 6 "	buah buah buah buah buah buah buah buah	ISO 14236.2000, Plastic Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread	Rp Rp Rp Rp Rp Rp Rp Rp	37,76 46,14 60,37 29,25 38,43 63,96 217,11 269,78 434,75 1,034,92
IX.28	9 10 11 12 13 14 15 <b>STUB</b> 1 3 4 6	Female coupling Push on (shock drat luar)  Female coupling Push on (shock drat luar)  Male coupling Push on (shock drat luar)  Male coupling Push on (shock drat luar)  Male coupling Push on (shock drat luar)  Female coupling Push on (shock drat luar)  STEANGE  STUD Flange HDPE	0 0 0 0 0 0 0 0	1" ½" ½" ½" ½" 1'" ½" ½" 1 " 2" 3 " 4 " 6 " 8 "	buah buah buah buah buah buah buah buah	ISO 14236.2000, Plastic Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread	Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp R	37,76 46,14 60,37 29,25 38,43 63,96 217,11 269,78 434,75 1,034,92 1,508,16
IX.28	9 10 11 12 13 14 15 <b>STUB</b> 1 3 4 6 7	Female coupling Push on (shock drat luar) Female coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Female coupling Push on (shock drat luar) STEANGE STUD Flange HDPE STUD Flange HDPE STUD Flange HDPE STUD Flange HDPE STUD Flange HDPE STUD Flange HDPE STUD Flange HDPE STUD Flange HDPE STUD Flange HDPE	0 0 0 0 0 0 0 0	1" ½" ¼" 1" ½" ¼" 1" 2" 3" 4 " 6" 8"	buah buah buah buah buah buah buah buah	ISO 14236.2000, Plastic Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2001, Brass Thread SNI 4829.2.2015 SNI 4829.2.2015 SNI 4829.2.2015 SNI 4829.2.2015 SNI 4829.2.2015 SNI 4829.2.2015	Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp R	37,76 46,14 60,37 29,25 38,43 63,96  217,11 269,78 434,75 1,034,92 1,508,16 2,171,11
1X.28	8 9 10 11 12 13 14 15 <b>STUB</b> 1 3 4 6 7 8	Female coupling Push on (shock drat luar) Female coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Female push on (shock drat luar) Female coupling Push on (shock drat luar) Female Coupling Push on (shock drat luar)  3 FLANGE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE	0 0 0 0 0 0 0 0	1" ½" ¼" 1" ½" ¼" 1 " 2 " 3 " 4 " 6 " 8 " 10 "	buah buah buah buah buah buah buah buah	ISO 14236.2000, Plastic Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2001	Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp R	37,76: 46.14: 60.37: 29,25: 38,43: 63,96:  217,11: 269,78: 434,75: 1,508,16: 2,1771,11: 3,191,88
1X.28	8 9 10 11 12 13 14 15 <b>STUB</b> 1 3 4 6 7 8 9	Female coupling Push on (shock drat luar) Female coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Female push on (shock drat luar) Female push on (shock drat luar)  S FLANGE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE	0 0 0 0 0 0 0 0	1" ½" ¼" 1" ½" ¼" 1 " 2 " 3 " 4 " 6 " 8 " 10 " 12 "	buah buah buah buah buah buah buah buah	ISO 14236.2000, Plastic Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2001	Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp R	37,764 46,14 60,377 29,25 38,434 63,96 217,111 269,78 434,75 1,034,92 1,508,16 3,191,88 3,991,24
1X.28	8 9 10 11 12 13 14 15 STUB 1 3 4 6 6 7 8 9 10 11	Female coupling Push on (shock drat luar) Female coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Female push on (shock drat luar) Female coupling Push on (shock drat luar) Female Coupling Push on (shock drat luar)  3 FLANGE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE	0 0 0 0 0 0 0 0	1" ½" ¼" 1" ½" ¼" 1 " 2 " 3 " 4 " 6 " 8 " 10 "	buah buah buah buah buah buah buah buah	ISO 14236.2000, Plastic Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2001	Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp R	37,766 46,14 60,371 29,25 38,434 63,96 217,111 269,781 434,75 1,034,92 1,508,161 2,171,111 3,191,888 3,991,244 5,153,931
1X.28	8 9 10 11 12 13 14 15 STUB 1 3 4 6 7 8 9 10 11 13	Female coupling Push on (shock drat luar) Female coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Female puping Push on (shock drat luar)  8 FLANGE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE	0 0 0 0 0 0 0 0	1" ½" ½" ½" ½" ½" ½" ½" ½" ½" ½" 4" 1 " 6 " 8 " 10 " 12 " 14 " 16 "	buah buah buah buah buah buah buah buah	ISO 14236.2000, Plastic Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2001, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2001	Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp R	37,764 46,14 60,37 29,25 38,434 63,96 217,111 269,788 434,75 1,034,92 1,508,161 2,171,111 3,191,88 3,991,244 5,153,391,244
	8 9 10 11 12 13 14 15 STUB 1 3 4 6 6 7 8 9 10 11 13 15	Female coupling Push on (shock drat luar) Female coupling Push on (shock drat luar) Male coupling Push on (shock drat luar) Female coupling Push on (shock drat luar)  3 FLANGE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE Stub Flange HDPE		1" ½" ½" ½" 1" ½" ¾" 1" 2" 3" 4" 6" 8" 10" 12" 14"	buah buah buah buah buah buah buah buah	ISO 14236.2000, Plastic Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2000, Brass Thread ISO 14236.2001	Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp Rp R	30,45' 37,76: 46,14' 60,37( 29,25- 38,43( 63,96'  217,11! 269,78! 434,75' 1,034,92! 1,508,16! 2,171,11( 3,191,88' 3,991,24' 5,153,93! 10,262,51( 14,290,575'

2 Clan 3 Clan 4 Clan  X.30 MANOM 1 Man 2 Man 3 Man  1 Moer BA 1 Moe 2 Moe 5 Moe 6 Moe 7 Moe 8 Moe 9 Kota 10 Lem 11 Seal 12 Tima 13 Kaw	amp Pipa Tipe U BOLT amp Pipa Tipe U BOLT amp Pipa Tipe U BOLT amp Pipa Tipe U BOLT WETER anometer	Ø Ø Ø	2 " 3 " 4 "	buah buah		Rp	14,913
2 Clan 3 Clan 4 Clan  X.30 MANOM 1 Man 2 Man 3 Man  1 Moer BA 1 Moe 2 Moe 5 Moe 6 Moe 7 Moe 8 Moe 9 Kota 10 Lem 11 Seal 12 Tima 13 Kaw	amp Pipa Tipe U BOLT amp Pipa Tipe U BOLT amp Pipa Tipe U BOLT METER	Ø Ø	3 "			Rp	14,917
3 Clan 4 Clan  4 Clan  1 Man 2 Man 3 Man  1 Moer Ba 1 Moe 2 Moe 3 Moe 4 Moe 5 Moe 6 Moe 6 Moe 7 Moe 8 Moe 9 Kote 10 Lem 11 Seal 12 Timt 13 Kaw	amp Pipa Tipe U BOLT amp Pipa Tipe U BOLT METER	Ø		buah			
4 Clan  X.30 MANOM  1 Man  2 Man  3 Man  X.31 MOER BA  1 Moe  2 Moe  3 Moe  4 Moe  5 Moe  6 Moe  6 Moe  7 Moe  8 Moe  9 Kote  10 Lean  11 Seal  12 Tima  13 Kaw	amp Pipa Tipe U BOLT		4 "			Rp	18,641
X.30 MANOMI  1 Man 2 Man 3 Mar  X.31 MOER BA 1 Moe 2 Moe 3 Moe 4 Moe 5 Moe 6 Moe 6 Moe 7 Moe 8 Moe 9 Kote 10 Lem 11 Seal 12 Tirm 13 Kaw	METER	Ø		buah		Rp	24,855
1 Man 2 Man 3 Mar  1 MOER BA 1 Moc 2 Moc 3 Moc 4 Moc 5 Moc 6 Moc 7 Moc 8 Moc 9 Kot 10 Lem 11 Seal 12 Tima 13 Kaw			6 "	buah		Rp	31,069
2 Man 3 Mar  1 MOER BA 1 Moe 2 Moe 3 Moe 4 Moe 5 Moe 6 Moe 7 Moe 8 Moe 9 Kot 10 Lem 11 Seal 12 Tima 13 Kaw	anometer						
3 Man  X.31 MOER BA 1 Moe 2 Moe 3 Moe 4 Moe 5 Moe 6 Moe 6 Moe 7 Moe 8 Moe 9 Kote 10 Lem 11 Seal 12 Tima 13 Kaw			4 Bar	buah		Rp	632,002
X.31 MOER BA 1 Moe 2 Moe 3 Moe 4 Moe 5 Moe 6 Moe 7 Moe 8 Moe 9 Kota 10 Lem 11 Seal 12 Tima 13 Kaw	anometer		6 Bar	buah		Rp	632,002
1 Moe 2 Moe 3 Moe 4 Moe 5 Moe 6 Moe 7 Moe 8 Moe 9 Kot 10 Lem 11 Seal 12 Timt 13 Kaw	anometer		10 Bar	buah		Rp	632,002
2 Moe 3 Moe 4 Moe 5 Moe 6 Moe 7 Moe 8 Moe 9 Kota 10 Lem 11 Seal 12 Tima 13 Kaw	BAUT/LEM DAN LAIN-LAIN						
3 Moe 4 Moe 5 Moe 6 Moe 7 Moe 8 Moe 9 Kota 10 Lem 11 Seal 12 Tima 13 Kaw	per Baut	Ø	M16 x 100 mm	buah		Rp	14,542
4 Moe 5 Moe 6 Moe 7 Moe 8 Moe 9 Kota 10 Lem 11 Seal 12 Tima 13 Kaw	per Baut	Ø	M20 X 100 mm	buah		Rp	19,016
5 Moe 6 Moe 7 Moe 8 Moe 9 Kota 10 Lem 11 Seal 12 Tima 13 Kaw	per Baut	Ø	M22 X 100 mm	buah		Rp	23,490
6 Moe 7 Moe 8 Moe 9 Kota 10 Lem 11 Seal 12 Time 13 Kaw	per Baut	Ø	M22 X 150 mm	buah		Rp	35,795
7 Moe 8 Moe 9 Kota 10 Lem 11 Seal 12 Time 13 Kaw	per Baut	Ø	M24 X 120 mm	buah		Rp	36,634
8 Moe 9 Kota 10 Lem 11 Seal 12 Tima 13 Kaw	per Baut	Ø	M24 X 190 mm	buah		Rp	54,811
9 Kota 10 Lem 11 Seal 12 Tima 13 Kaw	per Baut	Ø	M27 X 120 mm	buah		Rp	54,811
10 Lem 11 Seal 12 Tima 13 Kaw	per Baut	Ø	M27 X 140 mm	buah		Rp	62,641
11 Seal 12 Tima 13 Kaw	tak menter	Ø	1/2"	buah		Rp	75,186
12 Tima 13 Kaw	m Pipa PVC			Kg		Rp	64,312
13 Kaw	altip / TBA	Ø	1/2"	buah		Rp	3,573
	nah Segel			kg		Rp	106,330
	wat Segel			kg		Rp	202,798
14 Kaw				ROL		Rp	9,316,572
15 Chai	wat Tembaga	Ø	1/2 s/d 1"	buah ISO 14236	5.2000	Rp	72,604
	wat Tembaga amfer tool Push on (Penyerut)	Ø	1/2"	buah ISO 14236	5.2000	Rp	6,117
17 Rele 18 Rele	amfer tool Push on (Penyerut) lease key Push on (kunci pembuka)		3/4"	buah ISO 14236	2000	Rp	7,845

## **REKAPITULASI AKSESORIS PERPIPAAN**

NO	URAIAN PEKERJAAN	VOLUME	SAT
1	2	4	5
- 1	REKAP PIPA HDPE		
1	Pipa HDPE S-10 PN-8 Dia. 400 mm	9000	m'
- II	REKAP AKSESORIS PIPA, STREET BOX & CHAMBER VALVE		
1	Stub Flange HDPE 400 mm	23	bh
2	Moer Baut M.20 x 100 mm	384	bh
3	Packing Karet 400 mm	34	bh
4	All Flange Bend DCI 400 x 90°	7	bh
5	Tee All Flange DCI 400 mm	2	bh
6	Flange Steel 400 mm	9	bh
7	Water Meter (Elektromagnetic) 400 mm	1	bh
8	Dismantling Joint 400 mm	1	bh
9	Gate Valve 400 mm	4	bh
10	Pipa GI Medium 400 mm	10	bh
11	All Flange Bend DCI 400 x 45°	2	bh
12	Street Box	1	bh
III	REKAP AKSESORIS JEMBATAN PIPA		
1	Pipa GI Medium dia. 16" (400 mm)	32	m'
2	Pipa GI Medium dia. 2" (63 mm)	1	m'
3	Flange Steel 16" (400 mm)	6	m'
4	Flange Steel 2" (63 mm)	2	bh
5	All Flange Bend DCI 16"x45° (400 mm x 45°)	8	bh
6	Gate Valve 2" (63 mm)	2	bh
7	Combination Air Valve 2" (63 mm)	2	bh
8	Stub Flange HDPE 400 mm	4	bh
9	Moer Baut M.20 x 100 mm	320	bh
10	Moer Baut M.16 x 100 mm	16	bh
11	Pengaman pipa dari besi beton dia. 12 mm	4	bh
12	Klem penjepit pipa dari besi plat	18	bh
13	Rubber Packing 400 mm	16	bh
14	Rubber Packing 63 mm	4	bh
IV	REKAP AKSESORIS POMPA		
1	Pipa GI Medium dia. 16" (400 mm)	20	m'
2	Pipa GI Medium dia. 10" (250 mm)	6	m'

No	UBANAN PENER NAN	VOLUME	CAT
NO	URAIAN PEKERJAAN	VOLUME	SAT
3	Pipa GI Medium dia. 2" (63 mm)	4 0.3	5 m'
4	Pipa GI Medium dia. 1/2" (15 mm)	0.3	m'
5	Flange Steel 16" (400 mm)	2	bh
6	Flange Steel 10" (400 mm)	8	bh
7	Flange Steel 2" (63 mm)	2	bh
8	Long Bend All Flange Steel 10"x45° (250 mm x 45°)	2	bh
9	Gate Valve 2" (63 mm)	1	bh
10	Gate Valve 10" (250 mm)	2	bh
11	Gate Valve 16" (400 mm)	2	bh
12	Combination Air Valve 2" (63 mm)	1	bh
13	Wafer Check Valve 250 mm	2	bh
14	Flexible Rubber Joint 400 mm	2	bh
15	Flexible Rubber joint 250 mm	2	bh
16	Concentric Reducer DCI All Flange 250 x 160 mm	2	bh
17	Excentric Reducer DCI All Flange 400 x 200 mm	2	bh
18	Flange Blank 400 mm	1	bh
19	Rubber Packing 400 mm	8	bh
20	Rubber Packing 250 mm	10	bh
21	Rubber Packing 200 mm	2	bh
22	Rubber Packing 160 mm	2	bh
23	Rubber Packing 63 mm	2	bh
24	Moer Baut M.20 x 100 mm	240	bh
25	Moer Baut M.16 x 100 mm	48	bh
26	Shock GI 15 mm	1	bh
27	Double Nipple 15 mm	2	bh
28	Knee GI 15 mm	1	bh
29	Brass Gate Valve 15 mm	1	bh
30	Manometer 10 bar	1	m'

## **REKAP NODE DAN JEMBATAN PIPA**

## RINCIAN NODE

NO	LIDAIAN DEVEDIAAN	VOLUME	CAT
NO 1	URAIAN PEKERJAAN 2	VOLUME 4	SAT 5
		'	
L	Perpipaan		
L.1	Pipa HDPE S-10 PN-8 Dia. 400 mm	9000	m'
!	AKSESORIS NODE		
2.1	ND.1		
2.1.1	Stub Flange HDPE 400 mm	1	bh
2.1.2	Moer Baut M.20 x 100 mm	12	bh
2.1.3	Packing Karet 400 mm	1	bh
2.2	ND.2		
2.2.1	All Flange Bend DCI 400 x 90°	1	bh
2.2.2	Stub Flange HDPE 400 mm	2	bh
2.2.3	Moer Baut M.20 x 100 mm	24	bh
2.2.4	Packing Karet 400 mm	2	bh
2.3	ND.3		
2.3.1	All Flange Bend DCI 400 x 90°	3	bh
2.3.2	Tee All Flange DCI 400 mm	2	bh
2.3.3	Flange Steel 400 mm	9	bh
2.3.4	Water Meter (Elektromagnetic) 400 mm	1	bh
2.3.5	Dismantling Joint 400 mm	1	bh
2.3.6	Gate Valve 400 mm	3	bh
2.3.7	Stub Flange HDPE 400 mm	2	bh
2.3.8 2.3.9	Moer Baut M.20 x 100 mm	168	bh
2.3.10	Packing Karet 400 mm Pipa GI Medium 400 mm	16 10	bh
2.3.10	Pipa di Mediurii 400 mm	10	m
2.4	ND.4		
2.4.1	All Flange Bend DCI 400 x 90°	1	bh
2.4.2	Stub Flange HDPE 400 mm	2	bh
2.4.3	Moer Baut M.20 x 100 mm	24	bh
2.4.4	Packing Karet 400 mm	2	bh
2.5	ND.5		
2.5.1	All Flange Bend DCI 400 x 45°	1	bh
	All Flange Bend DCI 400 x 45° Stub Flange HDPE 400 mm	1 2	bh bh
2.5.2			
2.5.2 2.5.3	Stub Flange HDPE 400 mm	2	bh
2.5.2 2.5.3 2.5.4	Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm	2 24	bh bh
2.5.2 2.5.3 2.5.4	Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.6	2 24 2	bh bh bh
2.5.2 2.5.3 2.5.4 2.6 2.6.1	Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.6  All Flange Bend DCI 400 x 45°	2 24	bh bh bh
2.5.2 2.5.3 2.5.4 2.6 2.6.1 2.6.2	Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.6  All Flange Bend DCI 400 x 45°  Stub Flange HDPE 400 mm	2 24 2 1 1	bh bh bh
2.5.2 2.5.3 2.5.4 2.6 2.6.1 2.6.2 2.6.3	Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.6  All Flange Bend DCI 400 x 45°  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm	2 24 2	bh bh bh bh bh bh
2.5.2 2.5.3 2.5.4 2.6 2.6.1 2.6.2 2.6.3	Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.6  All Flange Bend DCI 400 x 45°  Stub Flange HDPE 400 mm	2 24 2 1 1	bh bh bh
2.5.2 2.5.3 2.5.4 2.6 2.6.1 2.6.2 2.6.3 2.6.4	Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.6  All Flange Bend DCI 400 x 45°  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.7	2 24 2 1 1	bh bh bh bh bh bh
2.5.1 2.5.2 2.5.3 2.5.4 2.6 2.6.1 2.6.2 2.6.3 2.6.4	Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.6  All Flange Bend DCI 400 x 45°  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.7  Stub Flange HDPE 400 mm	2 24 2 1 2 24 2 2	bh bh bh bh bh bh bh bh bh
2.5.2 2.5.3 2.5.4 2.6.1 2.6.2 2.6.3 2.6.4 2.7 2.7.1 2.7.2	Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.6  All Flange Bend DCI 400 x 45°  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.7  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm	2 24 2 1 2 24 2	bh bh bh bh bh bh bh bh bh
2.5.2 2.5.3 2.5.4 2.6.1 2.6.2 2.6.3 2.6.4 2.7 2.7.1 2.7.2	Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.6  All Flange Bend DCI 400 x 45°  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.7  Stub Flange HDPE 400 mm	2 24 2 1 2 24 2 2	bh bh bh bh bh bh bh bh bh
2.5.2 2.5.3 2.5.4 2.6 2.6.1 2.6.2 2.6.3 2.6.4 2.7 2.7,1 2.7,2	Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.6  All Flange Bend DCI 400 x 45°  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.7  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  Packing Karet 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm	2 24 2 1 1 2 24 2 2 2 12	bh bh bh bh bh bh bh bh bh
2.5.2 2.5.3 2.5.4 2.6 2.6.1 2.6.2 2.6.3 2.6.4 2.7 2.7.1 2.7.2 2.7.3	Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.6  All Flange Bend DCI 400 x 45°  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.7  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.7  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm	2 24 2 1 1 2 24 2 2 2 12	bh bh bh bh bh bh bh bh bh
2.5.2 2.5.3 2.5.4 2.6.1 2.6.2 2.6.3 2.6.4 2.7 2.7.1 2.7.2 2.7.3	Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.6  All Flange Bend DCI 400 x 45°  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.7  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.7  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm	2 24 2 1 2 24 2 2 12 1	bh bh bh bh bh bh bh bh bh
2.5.2 2.5.3 2.5.4 2.6.1 2.6.2 2.6.3 2.6.4 2.7 2.7.1 2.7.2 2.7.3 2.8.8 2.8.1 2.8.2	Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.6  All Flange Bend DCI 400 x 45°  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.7  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  Moer Baut M.20 x 100 mm  ND.7  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.8  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm	2 24 2 1 2 24 2 2 12 1	bh bh bh bh bh bh bh bh bh
2.5.2 2.5.3 2.5.4 2.6.1 2.6.2 2.6.3 2.6.4 2.7 2.7.1 2.7.2 2.7.3	Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.6  All Flange Bend DCI 400 x 45°  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.7  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.7  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm	2 24 2 1 2 24 2 2 12 1	bh bh bh bh bh bh bh bh bh bh bh
5.2 5.3 5.4 6 6.1 6.2 6.3 6.4 7 7.1 7.2 7.3	Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.6  All Flange Bend DCI 400 x 45°  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.7  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  Moer Baut M.20 x 100 mm  ND.7  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  Moer Baut M.20 x 100 mm  Packing Karet 400 mm  ND.8  Stub Flange HDPE 400 mm  Moer Baut M.20 x 100 mm	2 24 2 1 2 24 2 2 12 1	bh bh bh bh bh bh bh bh bh bh bh

NO	URAIAN PEKERJAAN	VOLUME	SAT
1	2	4	5
2.9.3	Moer Baut M.20 x 100 mm	24	bh
2.9.4	Packing Karet 400 mm	2	bh
2.10	ND.10		
2.10.1	Stub Flange HDPE 400 mm	2	bh
2.10.2	Moer Baut M.20 x 100 mm	12	bh
2.10.3	Packing Karet 400 mm	1	bh
2.11	ND.11		
2.11.1	All Flange Bend DCI 400 x 90°	1	bh
2.11.2	Stub Flange HDPE 400 mm	2	bh
2.11.3	Moer Baut M.20 x 100 mm	24	bh
2.11.4	Packing Karet 400 mm	2	bh
2.12	ND.12	+	
2.12.1	Gate Valve 400 mm	1	bh
2.12.1	Stub Flange HDPE 400 mm	2	bh
2.12.3	Moer Baut M.20 x 100 mm	24	bh
2.12.4	Packing Karet 400 mm	2	bh
2.12.5	Street Box	1	bh
3	AKSESORIS JEMBATAN PIPA		
3.1	JB1		
3.1.1	Pipa Gl Medium dia. 16" (400 mm)	16	m'
3.1.2	Pipa Gl Medium dia. 2" (63 mm)	0.5	m'
3.1.3	Flange Steel 16" (400 mm)	6	bh
3.1.4	Flange Steel 2" (63 mm)	1	bh
3.1.5	All Flange Bend DCI 16"x45° (400 mm x 45°)	4	bh
3.1.6	Gate Valve 2" (63 mm)	1	bh
3.1.7	Combination Air Valve 2" (63 mm)	1	bh
3.1.8	Stub Flange HDPE 400 mm	2	bh
3.1.9	Moer Baut M.20 x 100 mm	160	bh
3.1.10	Moer Baut M.16 x 100 mm	8	bh
3.1.11	Pengaman pipa dari besi beton dia. 12 mm	2	bh
3.1.12	Klem penjepit pipa dari besi plat	9	bh
3.1.13	Rubber Packing 400 mm	8	bh
3.1.14	Rubber Packing 63 mm	2	bh
2.2	ing.		
3.2	JB2	4.6	
3.2.1	Pipa GI Medium dia. 16" (400 mm)	16	m' m'
3.2.2	Pipa GI Medium dia. 2" (63 mm) Flange Steel 12" (400 mm)	0.5	m' bh
3.2.4	Flange Steel 2" (63 mm)	1	bh
3.2.5	All Flange Bend DCI 16"x45° (400 mm x 45°)	1	bh
3.2.6	Gate Valve 2" (63 mm)	1	bh
3.2.7	Combination Air Valve 2" (63 mm)	1	bh
3.2.8	Stub Flange HDPE 400 mm	2	bh
3.2.9	Moer Baut M.20 x 100 mm	160	bh
3.2.10	Moer Baut M.16 x 100 mm	8	bh
3.2.11	Pengaman pipa dari besi beton dia. 12 mm	2	bh
3.2.12	Klem penjepit pipa dari besi plat	9	bh
3.2.13	Rubber Packing 400 mm	8	bh
3.2.14	Rubber Packing 63 mm	2	bh

NO	URAIAN PEKERJAAN VOLU	JME	SAT
1	2 4		5
4	AKSESORIS POMPA		
4.1	POMPA		
4.1.1	Pipa GI Medium dia. 16" (400 mm)	20	m'
4.1.2	Pipa GI Medium dia. 10" (250 mm)	6	m'
4.1.3	Pipa GI Medium dia. 2" (63 mm)	0.3	m'
4.1.4	Pipa GI Medium dia. 1/2" (15 mm)	1	m'
4.1.5	Flange Steel 16" (400 mm)	2	bh
4.1.6	Flange Steel 10" (250 mm)	8	bh
4.1.7	Flange Steel 2" (63 mm)	2	bh
4.1.8	Long Bend All Flange Steel 10"x45° (250 mm x 45°)	2	bh
4.1.9	Gate Valve 2" (63 mm)	1	bh
4.1.10	Gate Valve 10" (250 mm)	2	bh
4.1.11	Gate Valve 16" (400 mm)	2	bh
4.1.12	Combination Air Valve 2" (63 mm)	1	bh
4.1.13	Wafer Check Valve 250 mm	2	bh
4.1.14	Flexible Rubber Joint 400 mm	2	bh
4.1.15	Flexible Rubber joint 250 mm	2	bh
4.1.16	Concentric Reducer DCI All Flange 250 x 160 mm	2	bh
4.1.17	Excentric Reducer DCI All Flange 400 x 200 mm	2	bh
4.1.18	Flange Blank 400 mm	1	bh
4.1.19	Rubber Packing 400 mm	8	bh
4.1.20	Rubber Packing 250 mm	10	bh
4.1.21	Rubber Packing 200 mm	2	bh
4.1.22	Rubber Packing 160 mm	2	bh
4.1.23	Rubber Packing 63 mm	2	bh
4.1.24	Moer Baut M.20 x 100 mm	240	bh
4.1.25	Moer Baut M.16 x 100 mm	48	bh
4.1.26	Shock GI 15 mm	1	bh
4.1.27	Double Nipple 15 mm	2	bh
4.1.28	Knee GI 15 mm	1	bh
4.1.29	Brass Gate Valve 15 mm	1	bh
4.1.30	Manometer 10 bar	1	bh