



Lampiran 1. DATA KOMPONEN KERUSAKAN SLUDGE SEPARATOR TAHUN 2011 DAN 2012

1. Untuk tahun 2011

<b>Nama komponen</b>	<b>Kodifikasi</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>Mei</b>	<b>Jun</b>	<b>Jul</b>	<b>Agt</b>	<b>Sept</b>	<b>0kt</b>	<b>Nop</b>	<b>Des</b>
Ball Bearing	Pn 6015 M	14	27			22							
Ball Bearing	Pn.6014 M	14	27			22							
Thrush ball bearing	Pn 225147 M		27			22							
Radial Ball bearing pn.	Pn 6213 M		27			22							
Radial Ball bearing pn.	Pn 6208 M		13			22							
Bearing SKF	6206		6										
Bearing SKF	6305		6										
Bearing SKF	6308												
Ball Bearing housing	65195-00												
Ball valve reduced bore	Q 2''Flend VLC												
Bowl Spindle	Q 2''Flend VLC				16						27		
Bushing	Pn532680-01	14											
Coupling vully	Pn.65155-00												
Distributor inset	Pn.531445.02					1							
Distributor tube	Pn.536224.01					1							
Elastic Plate	Pn.60571-00												
Elbow st. Steel	Q 2''												
Erosion guard ( lower)	535893.80												
Erosion guard (upper)	531444.0					1					17		
Friction Pad & Screw lubang 3		28											
Friction Block	Pn.74316												
Friction Block u/ lubang 4													
Friction Pad & screw	71628 Lbg 4	28		15				24			2		



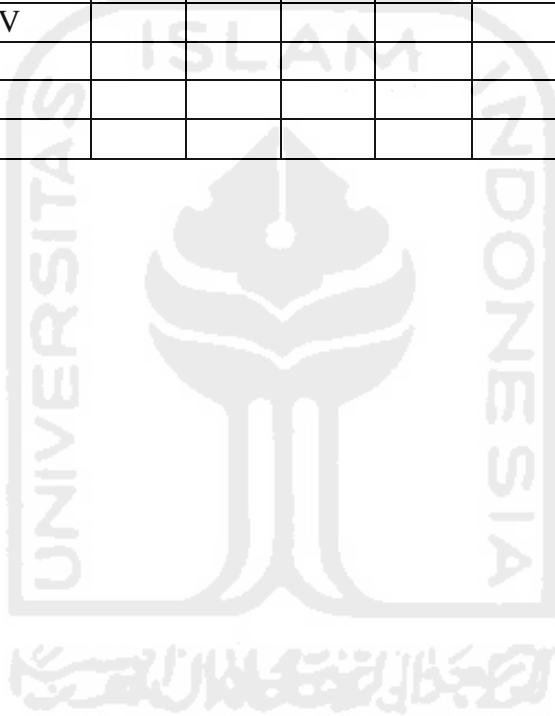
Stop slave	Pn.65188													
Trow of collar	Pn.65200													
Worm	Pn 67348													
Worm whell	Pn. 528102.91													
Kawat las Nikko Steel	RD260 Q 4cm													
Kawat las Nikko Steel	NSN 308 L													
Email drad	Q 1,25mm													
Contactore	SK 65-220V													
Novuse Breaker	50A-3P													
Thermal over load	25-35 A													
Thermal over load 7-11 A														

2. Untuk tahun 2012

<b>Nama komponen</b>	<b>Kodifikasi</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>Mei</b>	<b>Jun</b>	<b>Jul</b>	<b>Agt</b>	<b>Sept</b>	<b>0kt</b>	<b>Nop</b>	<b>Des</b>
Ball Bearing	Pn 6015 M								18				
Ball Bearing	Pn.6014 M								18				
Thrush ball bearing	Pn 225147 M								18		30		
Radial Ball bearing pn.	Pn 6213 M								18	8	30		
Radial Ball bearing pn.	Pn 6208 M												
Bearing SKF	6206												
Bearing SKF	6305												
Bearing SKF	6308												
Ball Bearing housing	65195-00												
Ball valve reduced bore	Q 2''Flend VLC												
Bowl Spindle	Q 2''Flend VLC			23							12		
Bushing	Pn532680-01								18				



Trow of collar	Pn.65200												
Worm	Pn 67348												
Worm whell	Pn. 528102.91												
Kawat las Nikko Steel	RD260 Q 4cm												
Kawat las Nikko Steel	NSN 308 L												
Email drad	Q 1,25mm				4								
Contactor	SK 65-220V												
Novuse Breaker	50A-3P												
Thermal over load	25-35 A												
Thermal over load 7-11 A													



## Daftar komponen mesin *Sludge Separator*

**Tabel 4.1 Daftar komponen Mesin Sludge Separator**

No	Nama Komponen	No	Nama Komponen
1	Ball bearing	26	Nave
2	Ball bearing	27	Nozle Q 160
3	Thrush ball bearing	28	Oil deflator
4	Radial ball bearing Pn	29	Paring disc
5	Radial ball bearing Pn	30	Pipa St. Steel Q''2x4 mmx6 m
6	Bearing SKF	31	Proctecting cup
7	Bearing SKF	32	Seal ring
8	Bearing SKF	33	Seal ring
9	Ball Bearing Housing	34	Seal ring
10	Ball volve ful bore	35	Seal ring
11	Ball valve reduce bore	36	Seal ring
12	Bowl spindle	37	Slave botton bearing
13	Bushing	38	Spring casing
14	Coupling vully	39	Spring
15	Distributor inset	40	Stop Sleeve
16	Distributor tube	41	Trow of dollar
17	Elastic plate	42	Worm
18	Elbow st.steel	43	Worm whell
19	Erosion guard ( lower )	44	Kawat las nikko steel
20	Erosion guard (upper	45	Kawat las nikko steel
21	Friction pad & screw lubang 3	46	Emaile drad
22	Friction block	47	Contactora
23	Friction blok u/ lubang 4	48	Novuse breaker
24	Friction pad & screw	49	Thermal over load
25	Level tube	50	Thermal over load 7-11 A

**Tabel Daftar Harga Rata-Rata Penggunaan Dan Biaya Per Unit Spare Part  
Mesin Sludge Separator Yang Sering Mengalami Kerusakan**

No	Nama Komponen	Harga	Frek
1	Bowl Spindle Pn 67347-00	6.000.000	4
2	Paring Disc, Pn 528537-02	4.000.000	5
3	Ball Bearing Pn 651861(6015 M)	2.100.000	3
4	Ball bearing, Pn 651857 (6014 M)	1.900.000	3
5	Bushing Pn 532680-01	2.880.000	2
6	Level tube Pn 516240-82	2.280.000	2
7	Friction pad & screw 76282 Lbg 4	28.400.000	7
8	Nofuse breaker 50A-3P	600.000	1
9	Bearing SKF 6305	92.000	1
10	Bearing SKF 6205	76.000	1

11	Radial Ball Bearing Pn, 60992	1.700.000	3
12	Elastic plate 60571-00	100.000	2
13	Slave botton bearing,521651.2	1.650.000	1
14	Eroton upper guard, 531444,80	2.800.000	2
15	Distribution Inset Pn, 531445,02	5.000.000	2
16	Distribution Tube, Pn 536224,01	1.296.000	1
17	Bearing SKF 6308	200.000	1
18	Eroton Guard Lower 535892,80	4.200.000	1
19	Friction Block, Pn 74316	970.000	1
20	Nozzle Q 1,60 mm, 534149,34	4.640.000	4
21	Seal ring 38411	50.000	1
22	Seal ring 67034	425.000	1
23	Seal ring 71866	50.000	2
24	Spring, Pn 66191	250.000	1

**Tabel Analisa Presentase Nilai Komponen**

No	Nama Komponen	Jumlah / biaya (Rp)	Persen (%)	Persen Kumulatif (%)
1	Bowl Spindle Pn 67347-00	24.000.000	17.4534	17.4534
2	Paring Disc, Pn 528537-02	20.000.000	14.5445	31.9979
3	Friction pad & screw 71628 Lbg 4	19.880.000	14.4572	46.4551
4	Nozzle Q 1,60 mm, 534149,34	18.560.000	13.4973	59.9524
5	Distribution Inset Pn, 531445,02	10.000.000	7.2723	67.2247
6	Ball Bearing Pn 651861(6015 M)	6.300.000	4.5815	71.8065
7	Bushing Pn 532680-01	5.760.000	4.1888	75.9950
8	Ball bearing, Pn 651857 (6014 M)	5.700.000	4.1452	80.1402
9	Eroton upper guard, 531444,80	5.600.000	4.0725	84.2127
10	Radial Ball Bearing Pn, 60992	5.100.000	3.7088	87.9215
11	Level tube Pn 516240-82	4.560.000	3.3161	91.2377
12	Eroton Guard Lower 535892,80	4.200.000	3.0543	94.2920
13	Friction Block, Pn 74316	970.000	2.1162	96.4082
14	Slave botton bearing,521651.2	1.650.000	1.1999	97.6082
15	Distribution Tube, Pn 536224,01	1.296.000	0.9425	98.5506
16	Nofuse breaker 50A-3P	600.000	0.4363	98.9870
17	Seal ring 67034	425.000	0.3091	99.2960
18	Spring, Pn 66191	500.000	0.1818	99.4779
19	Elastic plate 60571-00	200.000	0.1454	99.6233
20	Bearing SKF 6308	200.000	0.1454	99.7687
21	Seal ring 71866	100.000	0.0727	99.8415
22	Bearing SKF 6305	92.000	0.0669	99.9084
23	Bearing SKF 6205	76.000	0.0553	99.9636
24	Seal ring 38411	50.000	0.0364	100.0000
Total			100.0000%	