

DAFTAR PUSTAKA

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LAMPIRAN



PT. Swakarsa Sawit Raya



Penulis Foto bersama tim maintenance PT.SSR



Penulis Melakukan Proses Pengambilan Data

	REVISI: 01	NO. DOKUMEN : LOG/SSR/LAB-FBP/01								
	FEED BACK PROCESS									
	QC Dept - SSR - POM									
NAMA PERUSAHAAN		PT. SWAKARSA SAWIT RAYA (MILL)								
PERIODE		MEI 2025								
Hari/Tanggal Proses : Rabu / 28 Mei 2025										
NO	DESCRIPTION	PARAMETER	STD (%)	On Sample						Average
				1	2	3	4	5	6	
1	USB	150/J/G	< 3	3.15						
2	Condensate Sterilizer	Moisture		91.29						
		Oil Content		5.66						
3	Bunch Before Press	Moisture		60.72						
		Oil /Wet Basis	< 3	7.96						
4	Bunch After Press	Moisture		58.84						
		Oil /Wet Basis	< 2	1.74						
5	Liquor Bunch Press	Moisture		78.53						
		Oil Content		17.18						
6	Press Cake Fibre	Moisture	< 42		33.79	37.41	38.15	32.11		35.37
		Oil Losses	< 4.0		4.02	4.21	4.19	4.01		4.11
		Broken/T.Nuts	< 15		17.23	19.89	16.77	15.87		17.44
7	Fibre Cyclone	Moisture	< 35	30.96						
		Kernel Losses	< 2	2.00						
8	Destoner	Kernel Losses	< 2	4.75						
9	Ripple Mill	Efficiency	96 - 97	98.05	98.45	98.55				98.35
		Broken Kernel	7 - 10	11.15	10.40	10.25				10.60
10	LTDS I	Kernel Losses	< 2	1.85						
11	LTDS II	Kernel Losses	< 2	2.15						
12	Kernel Hydrocyclone	Dirt	< 7.5	2.73						
13	Shell Hydrocyclone	Kernel Losses	< 2	2.09						
14	Kernel Grading Drum	Dirt	< 7.5	6.53						
15	Kernel Gabungan	Dirt	< 7.5	4.27						
16	Kernel Produksi	Moisture	< 7.5	7.50						
		Dirt	< 7.5	7.22						
		Broken Kernel	< 15	18.95						
17	Sludge CST Underflow	Moisture	> 85	84.48						84.48
		Oil Content	< 8	9.90						9.90
18	Feed Decanter	Moisture	> 85	84.46	84.45					84.46
		Oil Content	< 8	9.72	9.80					9.76
19	Solid Decanter	Moisture		78.18	74.54					76.36
		Oil /Wet Basis	< 3	3.52	3.79					3.66
20	Light Phase ex Decanter	Moisture		10.18	14.08					12.13
		Oil Content		87.76	83.96					85.86
21	Heavy Phase ex Decanter	Moisture	> 95	93.55	93.47					93.51
		Oil /Wet Basis	< 1	0.95	0.98					0.97
22	Final Effluent	Moisture	> 95	92.84						
		Oil /Wet Basis	< 1	0.92						
		Ratio to FFB	50 - 60	45.00						
23	Wet Nut	Oil /Wet Basis	< 0.5	0.69						
24	Feed Vacuum Dryer	Moisture	< 0.5	0.86						
25	Oil Produksi	FFA	< 4	4.58						
		Moisture	< 0.20	0.33						
		Dirt	< 0.020	0.036						

Laboratorium PKS PT.Swakarsa Sawit Raya		
Talang Jerinjing, 29 Mei 2025		
Diketahui oleh,	Diperiksa oleh,	Dibuat oleh,
Mill Manager	Asst. Laboratorium	Analisis

Data feedback process PT. SSR

	REVISI: 01	NO. DOKUMEN : LOG/SSR/LAB-FBP/01								
	FEED BACK PROCESS									
QC Dept - SSR - POM										
NAMA PERUSAHAAN	: PT. SWAKARSA SAWIT RAYA (MILL)									
PERIODE	: MEI 2025									
Hari/Tanggal Proses : Kamis / 29 Mei 2025										
NO	DESCRIPTION	PARAMETER	STD (%)	On Sample						Average
				1	2	3	4	5	6	
1	USB	150/JIG	< 3	3.33						
2	Condensate Sterilizer	Moisture		89.81						
		Oil Content		6.92						
3	Bunch Before Press	Moisture		56.28						
		Oil /Wet Basis	< 3	8.18						
4	Bunch After Press	Moisture		50.04						
		Oil /Wet Basis	< 2	1.82						
5	Liquor Bunch Press	Moisture		80.30						
		Oil Content		15.59						
6	Press Cake Fibre	Moisture	< 42	43.22	47.11	49.06	38.56			44.49
		Oil Losses	< 4.0	4.06	4.15	4.21	3.92			4.09
		Broken/T.Nus	< 15	20.12	15.65	21.77	17.29			18.71
		Moisture	< 35	34.57						
7	Fibre Cyclone	Kernel Losses	< 2	1.95						
		Kernel Losses	< 2	4.70						
9	Ripple Mill	Efficiency	96-97	98.00	98.15	98.35				98.17
		Broken Kernel	7-10	9.05	9.70	9.50				9.42
10	LTDS I	Kernel Losses	< 2	1.90						
11	LTDS II	Kernel Losses	< 2	2.20						
12	Kernel Hydrocyclone	Dirt	< 7.5	2.72						
13	Shell Hydrocyclone	Kernel Losses	< 2	2.06						
14	Kernel Grading Drum	Dirt	< 7.5	7.47						
15	Kernel Gabungan	Dirt	< 7.5	4.60						
		Moisture	< 7.5	7.41						
		Dirt	< 7.5	7.35						
		Broken Kernel	< 15	17.89						
17	Sludge CST Underflow	Moisture	> 85	86.34						86.34
		Oil Content	< 8	7.56						7.56
18	Feed Decanter	Moisture	> 85	86.25	87.10					86.68
		Oil Content	< 8	7.42	6.92					7.17
19	Solid Decanter	Moisture		75.55	75.39					75.47
		Oil /Wet Basis	< 3	3.12	3.20					3.16
20	Light Phase ex Decanter	Moisture		7.25	13.53					10.39
		Oil Content		91.26	85.11					88.19
21	Heavy Phase ex Decanter	Moisture	> 95	93.69	93.57					93.63
		Oil /Wet Basis	< 1	0.96	0.98					0.97
22	Final Effluent	Moisture	> 95	94.49						
		Oil /Wet Basis	< 1	0.91						
		Ratio to FFB	50 - 60	45.00						
23	Wet Nut	Oil /Wet Basis	< 0.5	0.70						
24	Feed Vacuum Dryer	Moisture	< 0.5	0.89						
		FFA	< 4	4.95						
25	Oil Produksi	Moisture	< 0.020	0.32						
		Dirt	< 0.020	0.035						

Laboratorium PKS PT.Swakarsa Sawit Raya		
Talang Jerinjing, 30 Mei 2025		
Diketahui oleh,	Diperiksa oleh,	Dibuat oleh,
Mill Manager	Asst. Laboratorium	Analisis

Data feedback process PT. SSR

	REVISI: 01	NO. DOKUMENT : LOG/SSR/LAB-FBP/01								
	FEED BACK PROCESS									
QC Dept - SSR - POM										
NAMA PERUSAHAAN	PT. SWAKARSA SAWIT RAYA (MILL)									
PERIODE	MEI 2025									
Hari/Tanggal Proses : Jun'at / 30 Mei 2025										
NO	DESCRIPTION	PARAMETER	STD (%)	On Sample						Average
				1	2	3	4	5	6	
1	USB	150/J/G	< 3	3.15						
2	Condensate Sterilizer	Moisture		91.90						
		Oil Content		4.46						
3	Bunch Before Press	Moisture		61.95						
		Oil /Wet Basis	< 3	8.04						
4	Bunch After Press	Moisture		48.21						
		Oil /Wet Basis	< 2	1.90						
5	Liquor Bunch Press	Moisture		79.72						
		Oil Content		16.08						
6	Press Cake Fibre	Moisture	< 42	45.49	42.54	41.21	48.76			44.50
		Oil Losses	< 4.0	3.88	4.63	4.28	4.21			4.25
		Broken/T.Nuts	< 15	18.20	21.64	15.94	18.33			18.53
		Moisture	< 35	38.79						
7	Fibre Cyclone	Moisture	< 2	1.95						
		Kernel Losses	< 2	4.55						
8	Destoner	Kernel Losses	< 2	4.55						
		Efficiency	96 - 97	98.30		98.55	98.10			98.32
9	Ripple Mill	Broken Kernel	7 - 10	12.10		10.00	11.25			11.12
		Kernel Losses	< 2	1.70						
10	LTDS I	Kernel Losses	< 2	1.70						
11	LTDS II	Kernel Losses	< 2	1.95						
12	Kernel Hydrocyclone	Dirt	< 7.5	2.41						
13	Shell Hydrocyclone	Kernel Losses	< 2	2.00						
14	Kernel Grading Drum	Dirt	< 7.5	6.27						
15	Kernel Gabungan	Dirt	< 7.5	4.16						
16	Kernel Produksi	Moisture	< 7.5	8.57						
		Dirt	< 7.5	7.48						
		Broken Kernel	< 15	18.88						
17	Sludge CST Underflow	Moisture	> 85		84.66					84.66
		Oil Content	< 8		9.13					9.13
18	Feed Decanter	Moisture	> 85		85.52	85.65				85.59
		Oil Content	< 8		8.36	8.21				8.29
19	Solid Decanter	Moisture		74.97	70.79					72.88
		Oil /Wet Basis	< 3		3.10	3.22				3.16
20	Light Phase ex Decanter	Moisture			9.39	5.37				7.38
		Oil Content			89.30	93.08				91.19
21	Heavy Phase ex Decanter	Moisture	> 95		93.11	93.12				93.12
		Oil /Wet Basis	< 1		0.95	0.88				0.92
22	Final Effluent	Moisture	> 95	94.48						
		Oil /Wet Basis	< 1		0.87					
		Ratio to FFB	50 - 60	45.00						
23	Wet Nut	Oil /Wet Basis	< 0.5	0.67						
24	Feed Vacuum Dryer	Moisture	< 0.5	0.78						
25	Oil Produksi	FFA	< 4	4.97						
		Moisture	< 0.20	0.33						
		Dirt	< 0.020	0.036						

Laboratorium PKS PT.Swakarsa Sawit Raya

Talang Jerinjing, 31 Mei 2025		
Diketahui oleh,	Diperiksa oleh,	Dibuat oleh,
Mill Manager	Asst. Laboratorium	Analisis

Data feedback process PT. SSR

		REVISI: 01		NO. DOKUMENT : LOG/SSR/LAB-FBP/01						
		FEED BACK PROCESS								
QC Dept - SSR - POM										
NAMA PERUSAHAAN		: PT. SWAKARSA SAWIT RAYA (MILL)								
PERIODE		: JUNI 2025								
Hari/Tanggal Proses : Minggu / 01 Juni 2025										
NO	DESCRIPTION	PARAMETER	STD (%)	On Sample						Average
				1	2	3	4	5	6	
1	USB	ISO/JIG	< 3	3.11						
2	Condensate Sterilizer	Moisture		87.88						
		Oil Content		6.12						
3	Bunch Before Press	Moisture		64.72						
		Oil /Wet Basis	< 3	8.27						
4	Bunch After Press	Moisture		41.01						
		Oil /Wet Basis	< 2	1.80						
5	Liquor Bunch Press	Moisture		84.31						
		Oil Content		9.36						
6	Press Cake Fibre	Moisture	< 42	40.51		47.46	42.03	42.94		43.24
		Oil Losses	< 4.0	4.08		4.52	4.21	4.33		4.29
		Broken/T.Nut	< 15	17.14		17.14	18.04	16.20		17.13
		Moisture	< 35	33.60						
7	Fibre Cyclone	Kernel Losses	< 2	2.05						
		Kernel Losses	< 2	4.70						
9	Ripple Mill	Efficiency	96-97	98.30	98.65					98.48
		Broken Kernel	7-10	12.30	10.90					11.60
10	LTDS I	Kernel Losses	< 2	2.05						
11	LTDS II	Kernel Losses	< 2	2.35						
12	Kernel Hydrocyclone	Dirt	< 7.5	2.13						
13	Shell Hydrocyclone	Kernel Losses	< 2	2.10						
14	Kernel Grading Drum	Dirt	< 7.5	7.87						
15	Kernel Gabungan	Dirt	< 7.5	3.65						
16	Kernel Produksi	Moisture	< 7.5	7.54						
		Dirt	< 7.5	8.05						
		Broken Kernel	< 15	18.75						
		Moisture	> 85	84.62					84.62	
17	Sludge CST Underflow	Oil Content	< 8	8.22					8.22	
		Moisture	> 85	85.50	83.11				84.31	
18	Feed Decanter	Oil Content	< 8	8.21	9.69				8.95	
		Moisture		78.52	75.02				76.77	
19	Solid Decanter	Oil /Wet Basis	< 3	2.68	2.84				2.76	
		Moisture		24.26	21.39				22.83	
20	Light Phase ex Decanter	Oil Content		74.12	77.04				75.58	
		Moisture	> 95	94.27	94.38				94.33	
21	Heavy Phase ex Decanter	Oil /Wet Basis	< 1	0.98	0.96				0.97	
		Moisture	> 95	94.57						
		Oil /Wet Basis	< 1	0.93						
		Ratio to FFB	50-60	45.00						
23	Wet Nut	Oil /Wet Basis	< 0.5	0.67						
		Moisture	< 0.5	0.77						
24	Feed Vacuum Dryer	FFA	< 4	5.25						
		Moisture	< 0.20	0.34						
		Dirt	< 0.020	0.037						
25	Oil Produksi									

Laboratorium PKS PT.Swakarsa Sawit Raya

Talang Jerinjing, 02 Juni 2025		
Diketahui oleh,	Diperiksa oleh,	Dibuat oleh,
Mill Manager	Asst. Laboratorium	Analisis

Data feedback process PT. SSR

	REVISI: 01	NO. DOKUMENT : LOG/SSR/LAB-FBP/01								
	FEED BACK PROCESS									
QC Dept - SSR - POM										
NAMA PERUSAHAAN	: PT. SWAKARSA SAWIT RAYA (MILL)									
PERIODE	: JUNI 2025									
Hari/Tanggal Proses : Senin / 02 Juni 2025										
NO	DESCRIPTION	PARAMETER	STD (%)	On Sample						Average
				1	2	3	4	5	6	
1	USB	150/JIG	< 3	3.15						
2	Condensate Sterilizer	Moisture		87.52						
		Oil Content		10.16						
3	Bunch Before Press	Moisture		59.47						
		Oil /Wet Basis	< 3	7.97						
4	Bunch After Press	Moisture		56.04						
		Oil /Wet Basis	< 2	1.90						
5	Liquor Bunch Press	Moisture		83.44						
		Oil Content		9.78						
6	Press Cake Fibre	Moisture	< 42	38.68	44.46	39.80	39.19			40.53
		Oil Losses	< 4.0	4.40	4.12	3.64	4.27			4.11
		Broken/T.Nuts	< 15	17.87	19.46	20.59	16.32			18.56
7	Fibre Cyclone	Moisture	< 35	37.04						
		Kernel Losses	< 2	2.10						
8	Destoner	Kernel Losses	< 2	4.20						
9	Ripple Mill	Efficiency	96 - 97	98.10	97.85	98.55				98.17
		Broken Kernel	7 - 10	11.85	12.40	9.85				11.37
10	LTDS I	Kernel Losses	< 2	1.90						
11	LTDS II	Kernel Losses	< 2	2.35						
12	Kernel Hydrocyclone	Dirt	< 7.5	2.66						
13	Shell Hydrocyclone	Kernel Losses	< 2	2.04						
14	Kernel Grading Drum	Dirt	< 7.5	7.09						
15	Kernel Gabungan	Dirt	< 7.5	4.74						
		Moisture	< 7.5	7.46						
		Dirt	< 7.5	7.79						
16	Kernel Produksi	Broken Kernel	< 15	18.15						
17	Sludge CST Underflow	Moisture	> 85		88.02					88.02
		Oil Content	< 8		6.05					6.05
18	Feed Decanter	Moisture	> 85		88.01	88.23				88.12
		Oil Content	< 8		6.06	5.90				5.98
19	Solid Decanter	Moisture		71.53	71.39					71.46
		Oil /Wet Basis	< 3	3.40	3.52					3.46
20	Light Phase ex Decanter	Moisture		13.79	9.31					11.55
		Oil Content		85.04	89.37					87.21
21	Heavy Phase ex Decanter	Moisture	> 95		95.01	95.27				95.14
		Oil /Wet Basis	< 1		0.83	0.80				0.82
22	Final Effluent	Moisture	> 95	95.94						
		Oil /Wet Basis	< 1	0.81						
		Ratio to FFB	50 - 60	45.00						
23	Wet Nut	Oil /Wet Basis	< 0.5	0.67						
24	Feed Vacuum Dryer	Moisture	< 0.5	1.11						
25	Oil Produksi	FFA	< 4	5.62						
		Moisture	< 0.20	0.33						
		Dirt	< 0.020	0.036						

Laboratorium PKS PT.Swakarsa Sawit Raya

Talang Jerinjing, 03 Juni 2025		
Diketahui oleh,	Diperiksa oleh,	Diluat oleh,
Mill Manager	Asst. Laboratorium	Analisis

Data feedback process PT. SSR

	REVISI: 01	NO. DOKUMEN : LOG/SSR/LAB-FBP/01								
	FEED BACK PROCESS									
QC Dept - SSR - POM										
NAMA PERUSAHAAN	PT. SWAKARSA SAWIT RAYA (MILL)									
PERIODE	JUNI 2025									
Hari/Tanggal Proses : Selasa / 03 Juni 2025										
NO	DESCRIPTION	PARAMETER	STD (%)	On Sample						Average
				1	2	3	4	5	6	
1	USB	150/JIG	< 3	3.09						
2	Condensate Sterilizer	Moisture		90.48						
		Oil Content		4.06						
3	Bunch Before Press	Moisture		55.19						
		Oil /Wet Basis	< 3	7.89						
4	Bunch After Press	Moisture		56.18						
		Oil /Wet Basis	< 2	1.71						
5	Liquor Bunch Press	Moisture		82.22						
		Oil Content		11.60						
6	Press Cake Fibre	Moisture	< 42	35.60	40.88	38.90	40.88			39.07
		Oil Losses	< 4.8	4.19	3.92	4.85	4.36			4.12
		Broken/T.Nus	< 15	20.84	19.73	19.86	16.51			19.24
7	Fibre Cyclone	Moisture	< 35	35.49						
		Kernel Losses	< 2	1.95						
8	Destoner	Kernel Losses	< 2	4.05						
		Efficiency	96-97	98.40	98.50	98.90				98.60
9	Ripple Mill	Broken Kernel	7-10	11.90	11.05	10.00				10.98
		Kernel Losses	< 2	1.80						
11	LTDS II	Kernel Losses	< 2	2.15						
12	Kernel Hydrocyclone	Dirt	< 7.5	2.68						
13	Shell Hydrocyclone	Kernel Losses	< 2	2.15						
14	Kernel Grading Drum	Dirt	< 7.5	6.93						
15	Kernel Gabungan	Dirt	< 7.5	4.34						
16	Kernel Produksi	Moisture	< 7.5	7.74						
		Dirt	< 7.5	7.43						
		Broken Kernel	< 15	18.85						
17	Sludge CST Underflow	Moisture	> 85	87.23						87.23
		Oil Content	< 8	6.43						6.43
18	Feed Decanter	Moisture	> 85	87.67	87.47					87.57
		Oil Content	< 8	6.69	6.80					6.75
19	Solid Decanter	Moisture		74.90	76.06					75.48
		Oil /Wet Basis	< 3	3.41	3.26					3.34
20	Light Phase ex Decanter	Moisture		27.02	12.06					19.54
		Oil Content		71.70	86.52					79.11
21	Heavy Phase ex Decanter	Moisture	> 95	94.06	94.12					94.09
		Oil /Wet Basis	< 1	0.90	0.88					0.89
22	Final Effluent	Moisture	> 95	94.71						
		Oil /Wet Basis	< 1	0.86						
		Ratio to FFB	50 - 60	45.00						
23	Wet Nut	Oil /Wet Basis	< 0.5	0.68						
24	Feed Vacuum Dryer	Moisture	< 0.5	1.34						
		FFA	< 4	5.04						
25	Oil Produksi	Moisture	< 0.20	0.33						
		Dirt	< 0.020	0.036						

Laboratorium PKS PT.Swakarsa Sawit Raya		
Talang Jerinjing, 04 Juni 2025		
Diketahui oleh,	Diperiksa oleh,	Dibuat oleh,
Mill Manager	Asst. Laboratorium	Analisis

Data feedback process PT. SSR