

DAFTAR PUSTAKA

- Adesta, E.Y.T., Prabowo, H.A., & Agusman, D. 2018. Evaluating 8 Pillars of Total Productive Maintenance (TPM) Implementation and Their Contribution to Manufacturing Performance. *IOP Conf. Series: Materials Science and Engineering*.290, pp. 1-8.
- Adesta, E.Y.T., Prabowo, H.A. 2018. Total Productive Maintenance (TPM) Implementation Based on Lean Manufacturing Tools in Indonesian Manufacturing Industries. *International of Journal Engineering & Technology*. Vol 7 (3.7), pp 156-159.
- Ahmed, T., Ali, S.M., Allama, M.M. & Parvez, M.S. 2010. A Total Productive Maintenance (TPM) Approach to Improve Production Efficiency and Development of Loss Structure in a Pharmaceutical Industry. *Global Journal of Management and Business Research*.Vol. 10, pp. 186-190.
- Ahuja, I.P.S., & Khamba, J.S. 2007. An Evaluation of TPM Implementation in an Indian Manufacturing Enterprise. *Journal of Quality in Maintenance Engineering*. Vol. 13 (4), pp. 338-352.
- Ahuja, I.P.S., & Khamba, J.S. 2008. Total Productive Maintenance: Literature Review and Directions. *International Journal of Quality and Reliability Management*. Vol. 25 (7), pp. 709-756.
- Alam, Md Meraj., & Verma, Antariksha. 2016. Case Study on Implementation of TPM. *Imperial Journal of Interdisciplinary Research*. Vol. 2(12), pp. 2228-2237.
- Alamsyah, Firman. 2015. Analisis Akar Penyebab Masalah dalam Meningkatkan Overall Equipment Effectiveness (OEE) Mesin Stripping Hipack III dan Unimach di PT PFI. *Jurnal OE*. Vol. VII (3), pp. 289-302.
- Ames, V. A. (2003). TPM Interview. T. Pomorski. Austin, Tx.
- Amit, Gupta K., & Garg, R.K. 2012. OEE Improvement by TPM Implementation: A Case Study. *International Journal of IT, Engineering and Applied Sciences Research (IJIEASR)*. Vol. 1 (1), pp. 115-124.
- Arunraj, K., & Maran, M. 2014. A Review of Tangible Benefits of TPM Implementation. *International Journal of Applied Sciences and Engineering Research*. Vol. 3 (1), pp. 171-176.

- Bakrie, B. E. Manshur dan I.M. Sukadana.2012. *Pemberian berbagai level tepung cangkang udang ke dalamransum anak puyuh dalam masa pertumbuhan (umur 1±6minggu)*. J. Penelitian PertanianTerapan. 12 (1): 58-68.
- Bicheno, J. and Holweg, M. (2009). *The Lean Toolbox: The Essential Guide to Lean Transformation*. Buckingham: Production and Inventory Control, Systems and Industrial Engineering (PICSIE) Books.
- Braglia, M., & Zammori, F. 2008. Overall Equipment Effectiveness of Manufacturing Line (OEEML) an Integrated Approach to Assess Systems Performance. *Journal of Manufacturing Technology Management*. Vol. 20 (1), pp. 8-29.
- Chan, F.T.S., Lau, H.C.W, Ip, R.W.L., Chan, H.K., Kong, S., (2003), Implementation of Total Productive maintenance, A case study, *International Journal of Production Economics*, pp 71-94
- Choubey, Aaditya. 2012. Study The Initiation Steps of Total Productivity Maintenance in An Organization and its Effect in Improvement of Overall Equipment Efficiency. *International Journal of Engineering Research and Applications (IJERA)*. Vol. 2(4), pp. 1709-1713.
- ChoyDS, S.Y. (2003), TPM Implementation Experiences, *an article on Maintenance Resources.com*, a monthly online Magazine, <http://www.maintenance resources.com>
- Dogra, M., Sharma, V. S., Achdeva, A. & Dureja, J. S. 2011. TPM- A Key Strategy for Productivity Improvement In Process Industry. *Journal of EngineeringScience and Technology*. Vol. 6 (1), pp. 1 – 16.
- Dutta, S., & Dutta, A.K. 2016. A Review of The Experimental Study of Overall Equipment Effectiveness of Various Machines and Its Strategies Through TPM Implementation. *International Journal of Engineering Trends and Technology (IJETT)*. Vol. 36 (5), pp. 224-231.
- Environment protection Agency, USA (2006), Total Productive Maintenance (TPM), Lean Manufacturing and the Environment, <http://www.epa.gov/lean/thinking/tpm.htm>
- Friedli, Thomas., Goetzfried, Matthias. & Basu, Prabir. 2010. Analysis of the Implementation of Total Productive Maintenance, Total Quality Management, and Just-In-Time in Pharmaceutical Manufacturing. *J Pharm Innov*. Vol. 5, pp. 181–192.
- Fredendall, Lawrence D., J. Wayne Patterson, William J. Kennedy and To Griffin, 1997, “*Maintenance: Modeling Its Strategic Impact*”, *Journal of Managerial Issues*, Vol. IX, No. 4, pp. 440-453

- Gardner, L. (2000). Continuous Improvement through 100% Workforce Engagement. *11th Annual Total Productive Maintenance Conference and Exposition*, Dallas, Productivity, Inc.
- Gaspersz, Vincent. (2007). *Lean Six Sigma for Manufacturing and Service Industries*. PT Gramedia Pustaka Utama: Jakarta.
- Getut Pramesti, 2016, *Statistika Lengkap Secara Teori dan Aplikasi dengan SPSS 23*, PT. Alex Media Komputindo, Jakarta.
- Ghozali Imam and H. Latan (2015) Partial Least Squares: Konsep Teknik dan Aplikasi Menggunakan aplikasi SmartPLS 3.0, vol. 2. Semarang: Badan Penerbit Universitas Diponegoro.
- Ghozali, Imam. 2016. *Aplikasi Analisis Multivariete Dengan Program IBM SPSS 23 (Edisi 8)*. Cetakan ke VIII. Semarang : Badan Penerbit Universitas Diponegoro.
- Ghozali, Imam. (2018). *Aplikasi Analisis Multivariate dengan Program IBM SPSS 25*. Badan Penerbit Universitas Diponegoro: Semarang
- Goriwondo, William M., Mhlanga, Samson. & Kazembe, Tapiwa. 2011. Optimizing a Production System Using Tools of Total Productive Maintenance: Datlabs Pharmaceuticals as a Case Study. *Proceedings of the 2011 International Conference on Industrial Engineering and Operations Management*. pp.1139-1144.
- Hair, *et al*, 2014, *Multivariate Data Analysis*, New International Edition., New Jersey : Pearson.
- Hartmann, E., "Prescription for total TPM success", *Maintenance Technology Magazine online* 13, no. 4, April 2000
- Hermann, N. (2004), The key success factor of implementing TPM activity, A case study, Katalog
- Jain, A., Bhatti, R., & Singh, H. 2014. Impact of TPM Implementation on Indian Manufacturing Industry. *International Journal of Productivity and Performance Management*. Vol. 63 (1), pp. 44-56.
- Kumar, Pradeep., Varambally, K. V. M., & Rodrigues, Lewlyn L.R.. 2012. A Methodology for Implementing Total Productive Maintenance in Manufacturing Industries—A Case Study. *International Journal of Engineering Research and Development*. Vol 5 (2), pp. 32-39.

- Kusuma. 2010. *Penerapan Lean Manufacturing Dalam Mengidentifikasi Dan Meminimasi Waste Di PT. Hilton Surabaya*. Undergraduate Thesis. UPN Jatim: Surabaya.
- M. Jasiulewicz-Kaczmarek. 2016. SWOT analysis for Planned Maintenance strategy-a case study. *IFAC-PapersOnLine*
- Moleong, j, Lexy. 2006. *Metodologi Penelitian Kualitatif*. Bandung: PT. Remaja Rosdakarya.
- Mansour, H., Ahmad, M., & Ahmed, H. 2013. Potential Using of OEE in Evaluating the Operational Performance of Work Over Activities in Advances in Sustainable and Competitive Manufacturing Systems. *Springer International Publishing*. pp. 877-886.
- Mayur M Mhamunkar & Prof. Arun Kumar. 2017. A Review on Employment Of TPM to Improve OEE in Manufacturing Industry. *International Journal of Innovative Research in Science, Engineering and Technology* Vol. 6
- Mishra, Y., Kachawaha, M., & Jain, K. 2016. A Review on Lean Manufacturing and Its Implementation in *Emerging Trends in Engineering and Management*. Jaipur.
- Mora, E. (2002), The Cost of not implementing TPM, *article on tpmonline.com*.
- Nakajima, Siichi.(1988). Introduction to Total Productive Maintenance (TPM). *Productivity Press, Inc: Cambridge. Massachussets*
- Nakajima, Siichi. (1989). TPM Development Program Implementing Total Productive Maintenance. *Productivity Press Inc, Cambridge*.
- Pratesh, Jayaswal., & Hemant, Rajput S. 2012. Implementation of Kaizen and Jishu Hozen to Enhance Overall Equipment Performance in Manufacturing Industry. *International Journal of Research in IT & Management*. Vol. 2 (8), pp. 51-64.
- Rohani, J. M., & Zahraee, S. M. (2015). Production line analysis via value stream mapping: a lean manufacturing process of color industry. *2nd International Materials, Industrial, and Manufacturing Engineering Conference* (pp. 6-10). Johor: Elsevier B.V.
- Ramachandra, C G; Srinivas; Prasanth, Pai, & Raghavendra. (2016). OEE - A Tool to Measure the Effectiveness of TPM Implementation in Industries - A Review

- Sabta Adi, Kusuma. 2010. *Penerapan Lean Manufacturing Dalam Mengidentifikasi Dan Meminimasi Waste Di PT. Hilton Surabaya. Undergraduate Thesis*. UPN Jatim: Surabaya.
- Sanjaya, Wina., (2006), *Strategi Pembelajaran Berorientasi Standar proses pendidikan*, Prenada media, Jakarta.
- Sarjono, Haryadi., dan Julianita, Winda. (2011). *SPSS vs LISREL: Sebuah Pengantar, Aplikasi untuk Riset*. Penerbit Salemba empat, Jakarta.
- Sahu, Shekhar., Patida, Lakhan., & Soni, Pradeep Kumar. 2015. 5S Transfusion to Overall Equipment Effectiveness (OEE) for Enhancing Manufacturing Productivity. *International Research Journal of Engineering and Technology (IRJET)*. Vol. 2 (7), pp. 1211-1216.
- Sharma, R., & Trikha, V. 2011. TPM Implementation in Piston Manufacturing Industry for OEE. *Current Trends in Engineering Research*. Vol. 1(1), pp. 118-124.
- Shukla R, Upadhyaya A. 2010. TPM effectiveness: an operational study. *Prestige International Journal of Management and Research* 3(4): 35–40.
- Siagian. Sondang P. 2012. *Manajemen Sumber Daya Manusia*, Bumi Aksara. Jakarta.
- Siddiq, Muhammad., Atmaji, Fransiskus Tatas Dwi. & Alhilman, Judi. Usulan Penerapan *Total Productive Maintenance* (TPM) untuk Meningkatkan Efektivitas Mesin dengan Menggunakan Metode *Overall Equipment Effectiveness* (OEE) Pada *Plant Large Volume Parenteral* PT Sanbe Farma Cimareme Unit III. *E-Proceeding of Engineering*. Vol. 5(2), pp. 2982-2990.
- Singh, Narinder. & Bhatia, Onkar Singh. 2015. Review Paper on: Total Productive Maintenance. *Mechanical Engineering & Technology (IJARMET)*. Vol. 1(1), pp. 21-26.
- Sugiyono, 2007, *Metodologi Penelitian Bisnis*, PT. Gramedia, Jakarta
- Sugiyono (2019). *Metode Penelitian Kuantitatif, Kualitatif, dan R&D*. Bandung : Alfabet.
- Sulanjari, Pasti., & Firman, Aries. 2012. Effective Implementation of Lean Manufacturing in PT Kalbe Farma Tbk. *The Indonesian Journal of Bussiness Administration*. Vol. 1 (1), pp. 23-27.

- Swanson, Laura, 2001, *Linking Maintenance Strategies To Performance*, International Journal Of Production Economics, pp.237-244
- Tan, J. M., C, S. Hoh. (2003). TPM Interview - Fairchild Penang. T. Pomorski. Penang, Malaysia.
- Teeravaraprug, J., Kitiwanwong, K., & Saetong, N. 2011. Relationship Model and Supporting Activities of JIT, TQM, and TPM. *Journal of Science and Technology*. Vol. 33 (1), pp. 101-106.
- Tewari, Anurag., & Rawat, Ekta. 2017. Total Productive Maintenance- A Review. *International Journal for Research in Applied Science & Engineering Technology (IJRASET)*. Vol 5. Issue IV: 406-410.
- Wahab. A. N. A, Mukhtar M, Sulaiman R. 2013. 'A Conceptual Model of Lean Manufacturing Deminsions'. *The 4th International Conference on Electrical Engineering and Informatics (ICEEI 2013)*. Vol. 11, hal. 1292-1298
- Williamson, R.M., TPM: *An often misunderstood equipment improvement strategy*, Maintenance Technology Magazine online 13, no. 4, April 2000
- Wireman, T. (2004). *Total Productive Maintenance, 2nd ed.* New York: Industrial Press.
- Womack, J.P., Jones, D.T., & Roos, D. 1990. *The Machine That Changed The World*. New York, NY:Rawson Associates
- Yasin, Muhammad., dan Joko Priyono. 2016. "Analisis Faktor Usia, Gaji Dan Beban Tanggungan Terhadap Produksi Home Industri Sepatu Di Sidoarjo(Studi Kasus Di Kecamatan Krian)". *Jurnal Ekonomi dan Bisnis Vol 1 No 1*. Surabaya. Fakultas Ekonomi Universitas 17 Agustus 1945. 1(1), 95-120.
- Suzuki, T. (1994). *TPM on Process Industries*. Japanese Institute of Plant Maintenance. Productivity press

LAMPIRAN

Lampiran 1: Kuesioner Penelitian

KUESIONER PENERAPAN TPM DAN LEAN MANUF. DI PT. SEMEN TONASA

Dengan Hormat,

Kepada yang terhormat Bapak/Ibu responden : Perkenalkan saya Irsan Mahasiswa Program studi Magister Sains Manajemen Universitas Hasanuddin. Sehubungan dengan tesis saya yang berjudul “Pengaruh Sistem Pemeliharaan *Total productive Maintenance (TPM)* dan *Lean Manufacturing (LM)* Terhadap *Overall Equipment Effectiveness (OEE)* di PT. Semen Tonasa”. Bersama ini saya memohon kesediaan Bapak/Ibu untuk mengisi daftar pernyataan kuesioner dibawah ini. Data bapak/Ibu akan dijaga kerahasiaannya, mohon dijawab dengan jujur sesuai dengan pengalaman atau pengamatan Bapak/Ibu responden

A. IDENTITAS RESPONDEN

1. Nama :
2. Band :
- 4 Unit Kerja :
- 5 Pendidikan terakhir
6. Lama Bekerja (lingkari yg sesuai) :
- a 1 - 5 tahun b. 6 - 10 tahun c. 11 - 15 tahun d. > 15 tahun
7. Usia anda saat ini :
- a. < 25 tahun b. 25 - 35 tahun c. 36 - 45 tahun d. > 45 tahun

B. PETUNJUK PENGISIAN

1. Mohon memberi tanda silang (X) pada jawaban yang Bapak/ Ibu anggap paling sesuai

- SS : Sangat Setuju/ Sangat Puas (5)
- S : Setuju / Puas (4)
- N : Netral / Cukup Puas (3)
- TS : Tidak Setuju / Kurang Puas (2)
- STS : Sangat Tidak Setuju / Tidak Puas (1)

2. Setelah mengisi, dimohon Bapak/ Ibu mengembalikan kembali kepada yang memberikan kuesioner ini

Variabel	Indikator	No	Pertanyaan	SS	S	N	TS	STS
Total Productive Maintenance (TPM)	Autonomous maintenance	1	Anggota SGA juga bertugas untuk melakukan pemeliharaan mesin sederhana (adjustment, tightening, inspection)					
		2	Anggota SGA selalu membersihkan, melumasi peralatan secara teratur/berkala					
		3	Anggota SGA telah muncul rasa memiliki terhadap mesin/peralatan					
	Continuous Improvement	4	Berbagai jenis losses telah diidentifikasi untuk dieliminasi secara sistematis					
		5	Efisiensi system selalu ditingkatkan secara kontinyu					
		6	Siklus PDCA cycle telah dijalankan dengan konsisten					
	Planned Maintenance	7	Target zero breakdown telah diterapkan					
		8	Preventive, Predictive dan Corrective maintenance telah dilaksanakan dengan baik					
		9	Program pemeliharaan telah mampu memperbaiki MTBF peralatan					
	Quality maintenance	10	Target zero defects telah diterapkan					
		11	Penyebab masalah-masalah kualitas telah diidentifikasi dengan tepat					
		12	Mesin, material, operator telah disiapkan untuk mencapai kinerja terbaik					
	Education & Training	13	Kompetensi sumber daya manusia telah disesuaikan dengan tujuan organisasi					
		14	Dilakukan evaluasi dan updating terhadap skill pegawai secara teratur					
		15	Pekerja yang multi-skill perlu disiapkan sesuai kebutuhan					
	Safety, Health & Environment	16	Lingkungan kerja yang aman dan sehat harus selalu dijaga					
		17	Standard operating procedures telah dibuat dan diterapkan					
		18	Tersedia fasilitas pengolahan limbah yang memadai					
	g. Office TPM	19	Perlu dibangun sinergi antar department					

		20	Prosedur kerja/birokrasi yang mengganggu harus dihilangkan/dikurangi					
		21	Program 5 S juga telah diterapkan di area kantor					
	Development Management	22	Waktu untuk menerima, instalasi dan set-up peralatan baru telah diminimumkan					
		23	Mampu memanfaatkan pengalaman dari mesin/system terdahulu untuk perbaikan					
		24	Mengembangkan system pemeliharaan mesin yang lebih baik.					
Lean Manufacturing (LM)	Cellular Manufacturing (CM)	25	Penyusunan mesin dan work station sudah mengikuti aliran material dalam proses					
		26	Penerapan CM mampu mengurangi WIP, <i>lead time</i> , transport dan <i>material handling</i>					
		27	Penerapan CM dapat meningkatkan <i>flexibility</i> , <i>visibility</i> dan <i>productivity</i>					
	Value Stream Mapping (VSM)	28	Penerapan VSM telah mengurangi proses tanpa nilai tambah					
		29	Dengan adanya VSM proses produksi menjadi lebih efisien					
		30	Diberlakukannya VSM dapat mengurangi waste over processing					
	Just In Time (JIT)	31	Produksi sudah menerapkan konsep <i>the right part in the right place at the right time</i>					
		32	JIT mampu mengurangi <i>waste of storage space (waste of inventory)</i>					
		33	Penerapan JIT mampu mendeteksi masalah mutu produk lebih awal					
		34	Penerapan JIT dapat mengurangi persediaan barang (bahan baku, WIP, barang jadi)					
	Continuous Improvement (CI)	35	CI mampu meningkatkan kinerja produksi dan perusahaan					
		36	CI melalui program 5 S mampu meningkatkan efektivitas mesin dan peralatan					

		37	PDCA/Deming cycle merupakan salah satu tools CI yang sangat berguna					
	Standardized Work	38	Proses operasi dan produksi sudah terstandarisasi					
		39	Sudah diterapkan waktu baku untuk setiap aktivitas					
Overall Equipment Effectiveness (OEE)	Availability Rate	40	Penerapan TPM memberikan dampak positif terhadap kesiapan peralatan dalam beroperasi					
		41	Penerapan LM memberikan dampak positif terhadap kesiapan peralatan dalam beroperasi					
	Performance Rate	42	Penerapan TMP memberikan dampak positif sehingga peralatan dapat beroperasi sesuai kapasitas					
		43	Penerapan LM memberikan dampak positif sehingga peralatan dapat beroperasi sesuai kapasitas					
	Quality Rate	44	Penerapan TPM memberikan dampak positif sehingga mampu menghasilkan produk dengan kualitas terbaik					
		45	Penerapan LM memberikan dampak positif sehingga mampu menghasilkan produk dengan kualitas terbaik					
		46	Penerapan TPM memberikan peningkatan nilai OEE dalam 3 bulan terakhir					
		47	Penerapan lean manufacturing (LM) memberikan peningkatan nilai OEE dalam 3 bulan terakhir					

Correlations

		OEE40	OEE41	OEE42	OEE43	OEE44	OEE45	OEE46	OEE47	OEE_TOT
OEE40	Pearson Correlation	1	,629**	,593**	,260**	,357**	,198	,128	,187	,596**
	Sig. (2-tailed)		,000	,000	,010	,000	,051	,210	,066	,000
	N	98	98	98	98	98	98	98	98	98
OEE41	Pearson Correlation	,629**	1	,568**	,468**	,334**	,364**	,199*	,248*	,675**
	Sig. (2-tailed)	,000		,000	,000	,001	,000	,050	,014	,000
	N	98	98	98	98	98	98	98	98	98
OEE42	Pearson Correlation	,593**	,568**	1	,590**	,534**	,451**	,346**	,370**	,799**
	Sig. (2-tailed)	,000	,000		,000	,000	,000	,000	,000	,000
	N	98	98	98	98	98	98	98	98	98
OEE43	Pearson Correlation	,260**	,468**	,590**	1	,544**	,695**	,314**	,366**	,751**
	Sig. (2-tailed)	,010	,000	,000		,000	,000	,002	,000	,000
	N	98	98	98	98	98	98	98	98	98
OEE44	Pearson Correlation	,357**	,334**	,534**	,544**	1	,692**	,334**	,418**	,752**
	Sig. (2-tailed)	,000	,001	,000	,000		,000	,001	,000	,000
	N	98	98	98	98	98	98	98	98	98
OEE45	Pearson Correlation	,198	,364**	,451**	,695**	,692**	1	,338**	,383**	,730**
	Sig. (2-tailed)	,051	,000	,000	,000	,000		,001	,000	,000
	N	98	98	98	98	98	98	98	98	98
OEE46	Pearson Correlation	,128	,199*	,346**	,314**	,334**	,338**	1	,653**	,610**
	Sig. (2-tailed)	,210	,050	,000	,002	,001	,001		,000	,000
	N	98	98	98	98	98	98	98	98	98
OEE47	Pearson Correlation	,187	,248*	,370**	,366**	,418**	,383**	,653**	1	,664**
	Sig. (2-tailed)	,066	,014	,000	,000	,000	,000	,000		,000
	N	98	98	98	98	98	98	98	98	98
OEE_TOT	Pearson Correlation	,596**	,675**	,799**	,751**	,752**	,730**	,610**	,664**	1
	Sig. (2-tailed)	,000	,000	,000	,000	,000	,000	,000	,000	
	N	98	98	98	98	98	98	98	98	98

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).

Lampiran 3 : Nilai Cronbach's Alpha

Reliability Statistics

Cronbach's Alpha	N of Items
,893	23

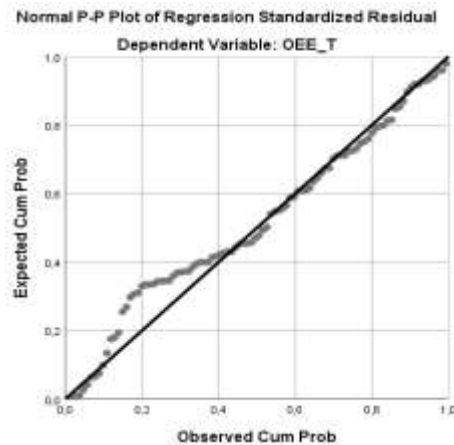
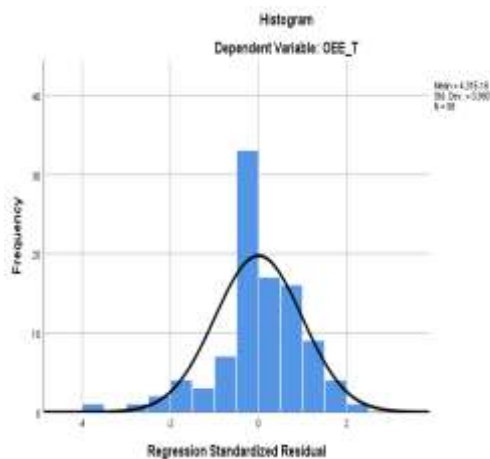
Reliability Statistics

Cronbach's Alpha	N of Items
,831	13

Reliability Statistics

Cronbach's Alpha	N of Items
,847	8

Lampiran 4 : Grafik Bell Shaped & Scatter Plot



Lampiran 5 : Hasil Uji Kolmogrov-Smirnov

One-Sample Kolmogorov-Smirnov Test

		Unstandardized Residual
N		98
Normal Parameters ^{a,b}	Mean	,2954942
	Std. Deviation	1,99002569
Most Extreme Differences	Absolute	,092
	Positive	,092
	Negative	-,078
Test Statistic		,092
Asymp. Sig. (2-tailed)		,134

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

Lampiran 6 : Hasil Uji Heteroskedaskitas

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	,147	,055		2,664	,009
	TPM_T	-,002	,001	-,326	-2,995	,073
	LM_T	,001	,001	,231	2,127	,060

a. Dependent Variable: ABS_RES2

Lampiran 7 : Hasil Uji Multikolinearitas

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Collinearity Statistics	
		B	Std. Error	Beta			Tolerance	VIF
1	(Constant)	9,751	2,749		3,547	,001		
	TPM_T	,190	,031	,525	6,188	,000	,807	1,240
	LM_T	,092	,032	,246	2,897	,005	,807	1,240

a. Dependent Variable: OEE_T

Lampiran 8 : Hasil Uji Regresi Linier Berganda

		Coefficients ^a		
		Unstandardized Coefficients		Standardized Coefficients
Model		B	Std. Error	Beta
1	(Constant)	9,751	2,749	
	TPM_T	,190	,031	,525
	LM_T	,092	,032	,246

a. Dependent Variable: OEE_T

Lampiran 9 : Hasil Analisi Korelasi

Model Summary				
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	,670 ^a	,449	,437	2,39394

a. Predictors: (Constant), LM_T, TPM_T

Lampiran 10 : Hasil Uji F

ANOVA ^a						
Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	443,680	2	221,840	38,709	,000 ^b
	Residual	544,442	95	5,731		
	Total	988,122	97			

a. Dependent Variable: OEE_T

b. Predictors: (Constant), LM_T, TPM_T

Lampiran 11 : Hasil Uji T

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t
		B	Std. Error	Beta	
1	(Constant)	9,751	2,749		3,547
	TPM_T	,190	,031	,525	6,188
	LM_T	,092	,032	,246	2,897

a. Dependent Variable: OEE_T

Lampiran 12 : Nilai Koefisien Determinasi

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	,670 ^a	,449	,437	2,39394

a. Predictors: (Constant), LM_T, TPM_T

Lampiran 13 : Nilai r Tabel

Tabel r Product Moment
Pada Sig.0.05 (Two Tail)

N	r	N	r	N	r	N	r	N	r	N	r
1	0.997	41	0.301	81	0.216	121	0.177	161	0.154	201	0.138
2	0.95	42	0.297	82	0.215	122	0.176	162	0.153	202	0.137
3	0.878	43	0.294	83	0.213	123	0.176	163	0.153	203	0.137
4	0.811	44	0.291	84	0.212	124	0.175	164	0.152	204	0.137
5	0.754	45	0.288	85	0.211	125	0.174	165	0.152	205	0.136
6	0.707	46	0.285	86	0.21	126	0.174	166	0.151	206	0.136
7	0.666	47	0.282	87	0.208	127	0.173	167	0.151	207	0.136
8	0.632	48	0.279	88	0.207	128	0.172	168	0.151	208	0.135
9	0.602	49	0.276	89	0.206	129	0.172	169	0.15	209	0.135
10	0.576	50	0.273	90	0.205	130	0.171	170	0.15	210	0.135
11	0.553	51	0.271	91	0.204	131	0.17	171	0.149	211	0.134
12	0.532	52	0.268	92	0.203	132	0.17	172	0.149	212	0.134
13	0.514	53	0.266	93	0.202	133	0.169	173	0.148	213	0.134
14	0.497	54	0.263	94	0.201	134	0.168	174	0.148	214	0.134
15	0.482	55	0.261	95	0.2	135	0.168	175	0.148	215	0.133
16	0.468	56	0.259	96	0.199	136	0.167	176	0.147	216	0.133
17	0.456	57	0.256	97	0.198	137	0.167	177	0.147	217	0.133
18	0.444	58	0.254	98	0.197	138	0.166	178	0.146	218	0.132
19	0.433	59	0.252	99	0.196	139	0.165	179	0.146	219	0.132
20	0.423	60	0.25	100	0.195	140	0.165	180	0.146	220	0.132
21	0.413	61	0.248	101	0.194	141	0.164	181	0.145	221	0.131
22	0.404	62	0.246	102	0.193	142	0.164	182	0.145	222	0.131
23	0.396	63	0.244	103	0.192	143	0.163	183	0.144	223	0.131
24	0.388	64	0.242	104	0.191	144	0.163	184	0.144	224	0.131
25	0.381	65	0.24	105	0.19	145	0.162	185	0.144	225	0.13
26	0.374	66	0.239	106	0.189	146	0.161	186	0.143	226	0.13
27	0.367	67	0.237	107	0.188	147	0.161	187	0.143	227	0.13
28	0.361	68	0.235	108	0.187	148	0.16	188	0.142	228	0.129
29	0.355	69	0.234	109	0.187	149	0.16	189	0.142	229	0.129
30	0.349	70	0.232	110	0.186	150	0.159	190	0.142	230	0.129
31	0.344	71	0.23	111	0.185	151	0.159	191	0.141	231	0.128
32	0.339	72	0.229	112	0.184	152	0.158	192	0.141	232	0.128
33	0.334	73	0.227	113	0.183	153	0.158	193	0.141	233	0.128
34	0.329	74	0.226	114	0.182	154	0.157	194	0.14	234	0.128
35	0.325	75	0.224	115	0.182	155	0.157	195	0.14	235	0.127
36	0.32	76	0.223	116	0.181	156	0.156	196	0.139	236	0.127
37	0.316	77	0.221	117	0.18	157	0.156	197	0.139	237	0.127
38	0.312	78	0.22	118	0.179	158	0.155	198	0.139	238	0.127
39	0.308	79	0.219	119	0.179	159	0.155	199	0.138	239	0.126
40	0.304	80	0.217	120	0.178	160	0.154	200	0.138	240	0.126

