

DAFTAR PUSTAKA

- Agus, Ristono. 2009. *Manajemen Persediaan*. Edisi 1. Yogyakarta. Graha Ilmu
- Anggraini, Wresni., Ferdiansyah. 2018. “*PERENCANAAN KEBIJAKAN INVENTORI MODEL PROBABILISTIK DI CV. BOLA MAS PEKANBARU*” *Jurnal Teknik Industri* Vol. 4 No. 1, Tahun 2018, ISSN 2460-898
- Gunawan, Herry. 2014. *Pengantar Transportasi dan Logistik*. Jakarta: Rajawali Pers.
- Herjanto, Eddy. 2015. *Manajemen Operasi*. Edisi ketiga. Jakarta: Grafindo
- Nursyanti, Yevita., Syauqi, Ahmad. 2021 “*OPTIMASI INVENTORI PRODUK PRIMATICOL DENGAN PENDEKATAN PROBABILISTIK BACK ORDER*” *Jurnal Manajemen Dan Bisnis Indonesia* Vol 07 No 02 Tahun 2021, ISSN: 2460-9471
- Pulungan, Dian Serena., Fatma, Erika. 2018. “*ANALISIS PENGENDALIAN PERSEDIAAN MENGGUNAKAN METODE PROBABILISTIK DENGAN KEBIJAKAN BACKORDER DAN LOST SALES*” *Jurnal Teknik Industri*, Vol.19, No. 1, 2018. ISSN 2527-4112
- R. Dan Reid, Nada R. Sanders. 2015. *Operations Management: An Integrated Approach*. John Wiley and Sons Singapore Pte. Ltd, Inc.
- Ristono, A. 2009. *Manajemen Persediaan*. Garaha Ilmu. Yogyakarta
- Suhara, Ade. 2017. “*PENERAPAN METODE PERSEDIAAN PROBABILISTIK UNTUK MENGHITUNG KEBUTUHAN BAHAN BAKU (STUDI KASUS DI PT. XZY)*” *Jurnal Buana Ilmu*, Vol. 1, No. 2, Tahun 2017, ISSN: 2580 – 5517
- Nasution, A. H., dan Y. Prasetyawan. 2008. *Perencanaan dan Pengendalian Produksi*. Graha Ilmu. Yogyakarta
- Vandeput, Nicolas. 2020. *Inventory Optimization “Models and Simulations”*. Walter de Gruyter GmbH, Berlin/Boston

- Heizer, J., dan B. Render. 2010. *Manajemen Operasi*. Salemba Empat. Jakarta.
- Heizer, J., dan Render B. 2011. *Manajemen Operasi*. Salemba Empat. Jakarta.
- Heizer, J., dan B. Render. 2014. *Manajemen Operasi*. Salemba Empat. Jakarta.
- Bahagia, Senator Nur.; *Sistem Inventori*, Penerbit ITB, Bandung, 2006
- Suntoro. (2020). *Fundamental Manajemen Logistik*. Prenada Media.
- Susanto, Kurniawan., Gunadhi, Erwin. 2013. “*PENGENDALIAN PERSEDIAAN BAHAN BAKU LILIN DENGAN MODEL PROBABILISTIC Q*” *Jurnal Kalibrasi* Vol. 11 No. 1 Tahun 2013, ISSN: 2302-7312
- Anggraeni, T. D., Wachidah, L., Statistika, P., Matematika, F., & Alam, P. (2021). “*Metode Single Exponential Smoothing dan Fuzzy Time Series*” pada. 254–265
- Maricar, A. M. (2019). “*Analisa Perbandingan Nilai Akurasi Moving Average dan Exponential Smoothing untuk Sistem Peramalan Pendapatan pada Perusahaan XYZ*”. *Jurnal Sistem Dan Informatika (JSI)*, 13(2), 36–45. <https://www.jsi.stikom-bali.ac.id/index.php/jsi/article/view/193>
- Widjajati, F. A., Soehardjoepri., Fani, Elisa. (2017). “*MENENTUKAN PENJUALAN PRODUK TERBAIK DI PERUSAHAAN X DENGAN METODE WINTER EKSPONENSIAL SMOOTHING DAN METODE EVENT BASED*”. *Jurnal Limits* Vol. 14 No. 1 Tahun 2017, ISSN: 2579-8936
- Putri, D. A., (2019) “*PERENCANAAN PERSEDIAAN UNTUK MENGATASI STOCKOUT SPARE PART TONER DC 286/AP 405I/5010 (SUPER) PADA PT TRIMULIA NUGRAHA*” Politeknik APP Jakarta.
- Abbas, S. R., Citraningtyas, Gayatri., Mansauda, K. L. R. (2021). “*PENGENDALIAN PERSEDIAAN OBAT MENGGUNAKAN METODE ECONOMIC ORDER QUANTITY (EOQ) DAN REORDER POINT (ROP) DI APOTEK X KECAMATAN WENANG*”. *Jurnal Pharmacon* Vol. 10 No. 3 Tahun 2021. FMIPA, Universitas Sam Ratulangi.

LAMPIRAN

Lampiran 1 Pernyataan Kegiatan Internship



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January 20 2023

Mr. M. Farhan Jauhari
Bandung, Jawa Barat
Mobile: 082299015619
Email: mfarhan.jauhari55@gmail.com

Dear Mr. M. Farhan Jauhari,

On behalf of PT Sarwa Manggalla Raya (the "Company"), I am pleased to extend to you this offer of temporary employment as an intern, reporting to Mr. Wugu. If you accept this offer, you will begin your internship with the Company on February 06 2023 and will be expected to work on Monday to Friday from 08:00AM to 17:00PM per week, with an hour for lunch at 12:00PM to 13:00PM.

Your compensation will start from Rp. 1.000.000,-/month, excluding any necessary taxes and withholdings, payable, deductible leave, etc. As an intern you will be receive "temporary employment" status. As a temporary employee, you will not receive any of the employee benefits that regular Company employees receive, including, but not limited to, health insurance, sick pay, overtime compensation, or participation in the Company's retirement plan.

Your internship is expected to end on August 04 2023. However, PT. Sarwa Manggalla Raya holds the right to terminate your internship employment at any time, with/without serious probable cause. In such event, you will be entitled to collect only your allowance up to the end of working hours of the last day of your actual service.

During your employment, you may have access to trade secrets and confidential business information belonging to the Company. By accepting this offer of employment, you acknowledge that you must keep all and any Company information strictly confidential, refrain from making unauthorized reproduction, and using it for your own purposes or from disclosing it to anyone outside the Company. You agree that any breach of confidentiality will constitute sufficient ground for immediate termination of your internship and a minimal fine up to Rp. 20.000.000,- that must be paid within 60 calendar days. Failure to do so will give PT Sarwa Manggalla Raya rights to as a civil & criminal liability in court/legal system. Any information/thesis/schoolwork that is related to the Company, or uses its name/logo/data, will need a signed authorization from the Head of Department and HR Manager.

Upon your agreement to this contract, it means you are liable to show up. Any sudden dismissal/withdrawal of your internship before the agreed end date, will hold you liable for a penalty of Rp. 5.000.000, that must be paid to the Company within 30 days.

In addition, you agree that, upon conclusion of your internship, you will immediately return to the Company all of its property, equipment, assets, and documents, including electronically stored information stored on your personal and professional devices/emails.

By accepting this offer, you agree that throughout your internship, you will observe all policies and practices governing the conduct of our business and employees. This letter sets forth the complete offer we are extending to you and supersedes and replaces any prior inconsistent statements or discussions. It may be changed only by a subsequent written agreement from both the Company and you. I hope that your association with the Company will be successful and rewarding. Please indicate your acceptance of this offer by signing below and emailing it back to the Human Resource Department, also do hand in the printed signed original copy on your first day here. If you have any questions, please contact do not hesitate to contact me.

Sincerely,

Winy Prakasa

Head of Business Development and Human Resources

I, Mr. M. Farhan Jauhari, accept employment with the Company on the terms and conditions set out in this letter and will fully comply accordingly.

WWW.MANGGALLA.COM

Scanned with CamScanner

Lampiran 2 Validasi Wawancara dan Pengambilan Data

Validasi Wawancara dan Pengambilan Data

Nama : Muhammad Farhan Jauhari

NPM : 6194042

Jurusan : D4 Logistik Bisnis

Bahwa yang bersangkutan benar telah melakukan wawancara dan pengambilan data pada divisi *Operational & Supply Chain*. Dengan surat keterangan berikut sebagai bukti telah melakukan wawancara dan pengambilan data di PT. Sarwa Manggalla Raya.

Demikian surat ini dibuat untuk digunakan sebagaimana mestinya.

Jakarta, 7 Agustus 2023

SARWA MANGGALLA RAYA
[warehouse]
()

Lampiran 3 Transkrip Wawancara

Tempat : PT. Sarwa Manggalla Raya

Responden : Asep Mulyawan (Manajer *Operational & Supply Chain*)

Riza Patra Guna (Kepala Gudang)

Puput Wijayanti (Apoteker Penanggung Jawab)

Dany Aprilian (Admin *Purchasing*)

Tanya : Bagaimana proses pergerakan produk PT. Sarwa Manggalla Raya?

Jawaban : Pergerakan produk pada PT. Sarwa Manggalla Raya seperti pada umumnya perusahaan distribusi. Produk diterima lalu akan melewati *checking* yang dilakukan oleh Kepala Gudang dan Apoteker Penanggung Jawab. Produk yang sudah melalui proses tersebut akan disimpan di gudang. Produk lalu akan keluar pada saat ada penjualan. Dari kita dipihak guang, akan menerima Surat Jalan dan *Invoice* yang berisi data produk apa saja yang dipesan oleh pelanggan, lalu menyiapkan produk sesuai dengan informasi itu.

Tanya : Apakah pengadaan produk dilakukan secara rutin atau bagaimana?

Jawaban : Pengadaan produk untuk Pemasok utama kita, PT. Meccaya, dilakukan rutin sebanyak 1 kali setiap bulan dan dengan jumlah tetap. Produk lain selain PT. Meccaya dilakukan sesuai permintaan dari Divisi *General Brand*. Pada umumnya pengadaan produk selain Meccaya sangat jarang dan jumlahnya juga sangat kecil bila dibandingkan dengan produk Meccaya

Tanya : Apakah keseluruhan produk sudah terkategori sebagai produk *fast moving*, *slow moving*, dan *non-moving*?

Jawaban : Produk secara garis besar belum terkategori seperti itu. Kita hanya melihat mana produk yang sering dijual dan mana yang jarang, hanya sebatas pengamatan, belum terkategori sepenuhnya.

Tanya : Dengan belum adanya pengkategorian seperti itu, apakah sering terjadi kelebihan dan kekurangan stok pada produk Meccaya? Karena pengadaannya dilakukan secara rutin.

Jawaban : Mungkin dapat terjadi. Secara pengamatan juga tidak semua produk Meccaya terjual terus menerus. Kuota dari pemesanan kita juga terbatas, sehingga untuk beberapa produk Meccaya dilakukan *Backorder*. Untuk pemesanan tambahan seperti ini juga menambah biaya pengadaan dan juga hal ini bisa dibilang merugikan bisa juga tidak karena mau tidak mau penjualan harus tetap dilakukan.

Tanya : Sejauh ini, apakah terdampak pada pelanggan bila terjadi kekurangan stok?

Jawaban : Dampak yang mungkin dirasakan oleh pelanggan mungkin hanya keterlambatan menerima pesanan, lebih dari itu mungkin tidak ada. Produk yang kita jual juga bukan merupakan produk farmasi yang memiliki nilai urgensi yang tinggi sehingga tidak mengganggu hubungan bisnis dengan pelanggan.

Tanya : Apakah peramalan yang dilakukan kurang tepat?

Jawaban : Peramalan dan kejadian sebenarnya kerap berbeda. Kita hanya menjadikan peramalan sebagai acuan dan disandingkan dengan riwayat penjualan, barulah melakukan pengadaan. Tapi pada umumnya, kita melakukan pengadaan untuk produk Meccaya juga berdasarkan permintaan dari Divisi *Sales & Marketing*.

Tanya : Untuk pengadaan produk dari PT. Meccaya, berapa lama waktu yang dibutuhkan dari mulai pesan hingga produk tiba?

Jawaban : Waktu tungguanya 2-3 hari, namun bila melihat riwayatnya berada di waktu 3 hari.

Tanya : Apakah pada saat *backorder lead time* dapat menjadi lebih singkat?

Jawaban : Tidak, waktu tungguanya sama.

Tanya : Dengan kondisi saat ini, kira-kira berapakah tingkat persentase *service level* yang dapat diberikan dalam pemenuhan pelayanan permintaan pelanggan?

Jawaban : *Service level* yang diberikan pada pelanggan dengan kondisi perusahaan saat ini kurang lebih berada di angka 90%

Tanya : Dengan pengendalian persediaan saat ini, apakah sudah baik atau masih ada kendala?

Jawaban : Pengendalian persediaan saat ini belum optimal, tapi tidak sampai mengganggu proses bisnis yang dijalankan perusahaan. Tapi, sangat menguntungkan bila pengendalian persediaan dapat dioptimalkan terutama pada proses pengadaan.

Lampiran 4 Kesiediaan Membimbing Pembimbing Eksternal

KESEDIAAN MEMBIMBING (PEMBIMBING EKSTERNAL)

Kepada
Yth. Koordinator Internship II dan Skripsi
Program Studi D-IV Logistik Bisnis Universitas Logistik dan Bisnis
Internasional

Dengan hormat,
Dengan ini menyampaikan kesediaan saya untuk membimbing
mahasiswa Program Studi Sarjana Terapan Logistik Bisnis untuk kegiatan
Internship dan Skripsi pada Semester Genap Tahun Akademik 2022-2023 di
instansi (beserta unit/bagian) :

..... *Operational and Supply Chain*

.....

Adapun jadwal pembimbingan akan diberikan kemudian.
Demikian saya sampaikan, atas perhatian dan kerjasama Bapak/Ibu, saya
mengucapkan terima kasih.

Jakarta,

Pembimbing Eksternal,


(*Asep Mulyawan*)
NIP/NIK* 

* coret yang tidak digunakan

Lampiran 5 Komponen Biaya Pengadaan Perusahaan



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Komponen Biaya Pengadaan Perusahaan

1. Harga beli produk :

- Salep 88, Rp6.500
- Krim 88 5g, Rp5.400
- Meccaderma 5g, Rp7.208

2. Biaya pesan :

- Ekspedisi: Rp50.000
- ATK: Rp13.000
- Telepon: Rp6.000

Jumlah : Rp69.000

3. Biaya Simpan :

- Kepala Gudang (1 orang): Rp48.000.000/tahun
- Apoteker Penanggung Jawab (1 orang): Rp48.000.000/tahun
- Janitor (1 orang): Rp24.000.000/tahun
- Biaya Listrik: Rp38.400.000/tahun
- Biaya Depresiasi Gudang: Rp35.000.000.000 (2016)/25 Tahun (Estimasi Masa Manfaat) = Rp1.400.000.000

Jumlah : Rp158.400.000

Gudang memiliki 32 palet penyimpanan, asumsi 100% penyimpanan pada 32 palet memiliki nilai 3,125% dari biaya simpan.

Penyimpanan Salep 88 menggunakan 20 palet dengan 1 palet penyimpanan memuat 40 karton Salep 88 (48.000 pcs). Jadi, biaya simpan untuk Salep 88 adalah: $3,125\% \times Rp158.400.000 = Rp4.950.000 / 48.000 = Rp103/unit/tahun$.

Penyimpanan Krim 88 5g menggunakan 8 palet dengan 1 palet penyimpanan memuat 40 karton krim 88 5g (24.000 pcs). Jadi biaya simpan untuk krim 88 5g adalah: $3,125\% \times Rp158.400.000 = Rp4.950.000 / 24.000 = Rp206/unit/tahun$.



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Penyimpanan Meccaderma 5g menggunakan 1 palet penyimpanan memuat 40 karton Meccaderma 5g (24.000 pcs). Jadi biaya simpan untuk Meccaderma 5g adalah: $3,125\% \times Rp158.400.000 = Rp4.950.000 / 24.000 = Rp206/unit/tahun$.

4. Biaya Kekurangan:

- Salep 88 : Rp7.800.000/ctn + (5%7.800.000) = Rp8.190.000
Krim 88 5g : Rp3.240.000/ctn + (5%3.240.000) = Rp3.402.000
Meccaderma 5g : Rp4.325.000/ctn + (5%3.240.000) = Rp4.541.250

Kebijakan pemasok untuk pemesanan tambahan adalah kenaikan harga produk sebesar 5% dari harga 1 karton.

5. Lead Time: 3 hari.

Lampiran 6 Data Terkait Permasalahan

Data Produk

No	Nama Produk	Purchase Price	Selling Price	Total Penj	N.Investasi
1	Krim 88 Anti Jamur 10g	9.000	38.000	17.866	160.795.432
2	Krim 88 Anti Jamur 5g	5.400	22.750	274.009	1.479.646.700
3	Lukajel Antiseptic 10g	8.250	16.350	24.931	205.677.700
4	MECCADERMA 10g	4.950	12.750	2.728	13.503.632
5	MECCADERMA 5g	86.500	127.500	13.537	1.170.976.771
6	Salep Kulit 88 6g	6.500	16.500	1.193.813	7.759.781.721
7	MECCADERM 10g	10.000	29.000	-	-
8	Alkohol Swab Alkafil	13.320	22.200	13.137	174.989.987
9	Alkohol Swab Isopas	19.980	33.300	313	6.257.200
10	Alkohol Swab Pastik	18.648	31.080	18.166	338.765.036
11	Antangin JRG Cair 12 Sachet	15.318	25.530	695	10.646.490
12	Becom-C 10 kps	21.312	35.520	107	2.271.405
13	Becom-Zet 10 kps	30.500	32.000	79	2.420.683
14	Betadine Solution 5ml	174.048	183.150	1.211	210.858.917
15	Cooling 5 Spray 15 ml Coolmint	233.877	246.000	151	35.330.945
16	Decolgen Tabs	4.917	5.717	230	1.130.252
17	Enervon C Tab 30s	10.471	11.000	224	2.341.593
18	FreshCare Hot	10.471	11.000	1.869	19.569.745
19	FreshCare Original		28.200	1.261	-
20	Hot In Cream 120 gr	11.911	13.000	-	-
21	HotIn Cream 60 gr	18.086	19.000	494	8.932.119
22	Hotin Cream Tube 60 gr	14.176	14.950	325	4.608.122
23	HOTIN DCL EMULGEL 30 GR	18.447	19.500	422	7.788.107
24	HOTIN DCL EMULGEL 60 GR	62.833	62.200	505	31.702.544
25	HOTIN STRONG TUBE 60 GR	102.680	108.000	634	65.100.831
26	Insto Regular 7,5 ml	65.000	68.400	1.900	123.498.499
27	Minyak Kayu Putih Cap Lang 120 ml	54.069	55.167	199	10.777.752
28	Minyak Kayu Putih Cap Lang 30 ml	62.160	64.530	1.006	62.541.023
29	Minyak Kayu Putih Cap Lang 60 ml	44.345	47.000	1.589	70.468.183
30	Mylanta Liquid 50 ml	16.900	17.760	868	14.677.030
31	Natur E 100IU 32 Kapsul	18.426	19.000	142	2.625.140
32	OB Herbal 100 ml	18.982	19.982	619	11.747.585
33	OBH COMBI ANAK BATUK & FLU RASA STRAWBERY 60 ML	13.217	13.920	1.395	18.434.489
34	OBH COMBI BATUK & FLU RASA JAHE 60 ML	414.683	423.000	421	174.581.586
35	OBH COMBI BATUK & FLU RASA MENTOL 60 ML	38.000	40.000	854	32.437.741
36	OBH COMBI BATUK BERDAHAK RASA JAHE 100 ML	25.824	27.000	619	15.990.031
37	OBH COMBI BATUK BERDAHAK RASA MENTOL 100 ml	17.166	18.000	925	15.879.754
38	Panadol Caplet 100s Biru	20.380	26.640	1.467	29.892.508
39	Panadol Extra 100S	17.832	23.310	1.346	24.009.268
40	Panadol Hijau Caplet Flu dan Batuk 100s	18.681	24.420	3.142	58.703.956
41	PEDITOX 50 ML	19.530	25.530	720	14.052.604
42	Poldan Mig 4 Tabs	27.597	36.075	-	-
43	Polysilane Suspensi 180 ml	19.530	25.530	277	5.414.986
44	Rohito Cool 7 ml	17.832	23.310	2.152	38.374.787
45	Salonpas 12 x 1	20.380	26.640	1.007	20.522.257
46	Salonpas Hot Sachet	17.832	23.310	318	5.669.566
47	Sanadryl Expectorant 120ml	39.485	51.615	409	16.167.101
48	Sanadryl Expectorant 60ml	16.983	22.200	764	12.975.644
49	Sanafly PE 4 Tabs	19.530	25.530	66	1.292.552
50	Sangobion 250 (25 strip x 10 kps)	17.832	23.310	40	716.842
51	Sanmol Drops 15 ml	23.776	31.080	541	12.862.734
52	Sanmol Sirup 60 ml	27.173	35.520	-	-
53	Sanmol Tablet 4 Tabs	26.748	34.965	-	-
54	TEMPRA FORTE 60ML ORANGE	19.530	25.530	142	2.775.798
55	Theraskin Acne Cream 10g	16.134	21.090	147	2.365.222
56	Theraskin Acne Lotion 20 ml	28.871	37.740	-	-
57	Theraskin Acne Toner Botol Puteri White	21.653	28.305	185	4.015.176
58	Theraskin Advanced Acne Face Cream	13.333	13.800	26	352.000
59	Theraskin Advanced Acne Series	12.367	13.100	1.363	16.855.948
60	Theraskin AHA Cleanser 100ml	12.367	13.100	377	4.662.284

61	Theraskin AHA Toner Botol Puteri White Opaque	12.475	13.900	344	4.291.006
62	Theraskin Beauty Whitening Cream 10g	12.721	13.900	566	7.200.086
63	Theraskin Compact Powder Whitening 14 g	13.998	14.800	52	730.670
64	Theraskin Day Cream Aha pot 10g	8.154	8.492	379	3.090.305
65	Theraskin Facial Wash For Acne Skin 100ml	10.473	11.500	204	2.136.461
66	Theraskin Facial Wash For Normal Skin 100ml	15.851	17.500	392	6.216.446
67	Theraskin Facial Wash For Oily Skin 100ml	12.549	14.500	303	3.802.211
68	Theraskin Neck Cream 10 g (Shrink)	15.851	17.000	189	3.002.142
69	Theraskin Oil Control Series	45.867	47.286	403	18.484.570
70	Theraskin Oil Reducer Serum Botol 8g	21.749	25.530	8	173.995
71	Theraskin Perfect Glow Series	19.530	25.530	1.327	25.916.907
72	Theraskin Renewal Cream 10g	16.134	21.090	1.256	20.264.116
73	Theraskin Revitalift Cream Pot Putih Emboss 10g Shrink	17.832	23.310	8	147.276
74	Theraskin Serum Acne	23.352	30.525	71	1.667.073
75	Theraskin Serum Vit C 8 g	16.643	21.756	34	565.541
76	Theraskin Skin White 8 ml	26.324	34.410	71	1.869.058
77	Theraskin Sun Care with Green Tea 10g Shrink	16.317	17.000	33	537.156
78	Theraskin SunCare 10 gr	16.643	21.756	453	7.539.433
79	Theraskin Suncare For Acne Pot 10g	24.625	32.190	63	1.555.756
80	Theraskin Suncare For Normal Skin (Mild) 10g	16.983	22.200	226	3.844.102
81	Theraskin Suncare For Oily Skin (Prima) 10 g	19.530	25.530	155	3.024.290
82	Theraskin Suncare With Brightener 10 g	128.520	168.000	979	125.821.080
83	Theraskin Toner For Normal Skin Botol Puteri	104.805	137.000	226	23.663.502
84	Theraskin Toner For Oily Skin Puteri 100ml (shrink)	149.175	195.000	59	8.839.961
85	Theraskin Whitening Cream 10g	29.296	38.295	128	3.758.049
86	Tolak Angin Cair 12 Pcs	19.530	25.530	1.731	33.803.799
87	Vicks Formula 44 Sirup 100ml	78.810	82.000	525	41.413.980
88	Vitacimin Sweetlets Tab 100	31.829	33.500	154	4.894.660
89	Woods Peppermint Expectorant (Biru) Sirup 60 ml	33.288	34.788	415	13.813.837
90	Y-Rins 2x12ml	29.196	30.760	147	4.306.071
91	OBH Combi Anak Batuk & Flu Rasa Apel 60 ml	36.722	38.500	284	10.416.836
92	OBH Combi Anak Batuk & Flu Rasa Jeruk 60 ml	15.851	17.500	273	4.330.434
93	Panadol Anak Syrup 1-6 Tahun 60ml	29.937	31.524	355	10.627.529
94	PROMAG 10tab STRIP	9.391	10.000	265	2.484.881
95	Theraskin Perfect Glow Facial Wash	46.531	48.840	5	232.654
96	Theraskin Toner Chamomila Puteri 100ml	21.803	28.500	18	392.445
97	Theraskin Suncare For Acne 10g	25.245	33.000	36	908.820
98	Theraskin Perfect Glow Toner Essence	22.568	29.500	14	315.945
99	Theraskin Perfect Glow Brightening Serum	41.310	54.000	8	330.480
100	Theraskin Moisturizer Cream 10g	32.130	42.000	12	385.560
101	Theraskin Micellar Water Botol MW 100 ml	32.895	43.000	6	197.370
102	Theraskin Facial Wash For Normal Skin 100 ml	136.860	145.000	106	14.507.160
103	Theraskin Perfect Glow Spotless Serum	115.440	122.000	4	461.760
104	Theraskin Acne Biocream 10g	25.050	32.745	12	300.599
105	Theraskin Acne Lotion 20 ml	19.530	25.530	-	-
106	Theraskin Advanced Acne Facial Wash	17.408	22.755	8	139.261
107	Theraskin Advanced Acne Spot Treatment	20.804	27.195	6	124.825
108	Theraskin Advanced Acne Toner Essence	20.000	22.000	12	240.000
109	Theraskin AHA Cream 10g (Shrink)	23.715	31.000	22	521.730
110	Theraskin Cream Lightening Plus 10g (Shrink)	22.874	29.900	20	457.480
111	Theraskin Day Cream AHA pot 10 g	22.874	29.900	4	91.496
112	BSN Black Hair Treatment	15.263	20.000	57	869.963
113	Orifia Brown Hair Treatment	13.998	14.800	-	-
114	CHRYSANTHEMUM GRANULE 10'S	13.998	14.800	30	419.925

Produk Fast Moving

No	Nama Produk	Purchase Price	Selling Price	Total Penj	Frekuensi	FMS
1	Krim 88 Anti Jamur 10g	9.000	38.000	17.866	12	F
2	Krim 88 Anti Jamur 5g	5.400	22.750	274.009	12	F
3	Lukajel Antiseptic 10g	8.250	16.350	24.931	12	F
4	MECCADERMA 10g	4.950	12.750	2.728	12	F
5	MECCADERMA 5g	86.500	127.500	13.537	12	F
6	Salep Kulit 88 6g	6.500	16.500	1.193.813	12	F
8	Alkohol Swab Alkafil	13.320	22.200	13.137	12	F
9	Alkohol Swab Isopas	19.980	33.300	313	12	F
10	Alkohol Swab Pastik	18.648	31.080	18.166	12	F

11	Antangin JRG Cair 12 Sachet	15.318	25.530	695	12	F
12	Becom-C 10 kps	21.312	35.520	107	12	F
13	Becom-Zet 10 kps	30.500	32.000	79	12	F
14	Betadine Solution 5ml	174.048	183.150	1.211	12	F
15	Cooling 5 Spray 15 ml Coolmint	233.877	246.000	151	12	F
16	Decolgen Tabs	4.917	5.717	230	12	F
17	Enervon C Tab 30s	10.471	11.000	224	12	F
18	FreshCare Hot	10.471	11.000	1.869	12	F
19	FreshCare Original		28.200	1.261	12	F
21	HotIn Cream 60 gr	18.086	19.000	494	12	F
22	Hotin Cream Tube 60 gr	14.176	14.950	325	12	F
23	HOTIN DCL EMULGEL 30 GR	18.447	19.500	422	12	F
24	HOTIN DCL EMULGEL 60 GR	62.833	62.200	505	12	F
25	HOTIN STRONG TUBE 60 GR	102.680	108.000	634	12	F
26	Insto Regular 7,5 ml	65.000	68.400	1.900	12	F
27	Minyak Kayu Putih Cap Lang 120 ml	54.069	55.167	199	12	F
28	Minyak Kayu Putih Cap Lang 30 ml	62.160	64.530	1.006	12	F
29	Minyak Kayu Putih Cap Lang 60 ml	44.345	47.000	1.589	12	F
30	Mylanta Liquid 50 ml	16.900	17.760	868	12	F
31	Natur E 100IU 32 Kapsul	18.426	19.000	142	12	F
32	OB Herbal 100 ml	18.982	19.982	619	12	F
33	OBH COMBI ANAK BATUK & FLU RASA STRAWBERRY 60 ML	13.217	13.920	1.395	12	F
35	OBH COMBI BATUK & FLU RASA MENTOL 60 ML	38.000	40.000	854	12	F
36	OBH COMBI BATUK BERDAHAK RASA JAHE 100 ML	25.824	27.000	619	12	F
37	OBH COMBI BATUK BERDAHAK RASA MENTOL 100 ml	17.166	18.000	925	12	F
38	Panadol Caplet 100s Biru	20.380	26.640	1.467	12	F
39	Panadol Extra 100S	17.832	23.310	1.346	12	F
40	Panadol Hijau Caplet Flu dan Batuk 100s	18.681	24.420	3.142	12	F
41	PEDITOX 50 ML	19.530	25.530	720	12	F
43	Polysilane Suspensi 180 ml	19.530	25.530	277	12	F
44	Rohto Cool 7 ml	17.832	23.310	2.152	12	F
45	Salonpas 12 x 1	20.380	26.640	1.007	12	F
46	Salonpas Hot Sachet	17.832	23.310	318	12	F
47	Sanadryl Expectorant 120ml	39.485	51.615	409	12	F
48	Sanadryl Expectorant 60ml	16.983	22.200	764	12	F
49	Sanafly PE 4 Tabs	19.530	25.530	66	12	F
50	Sangobion 250 (25 strip x 10 kps)	17.832	23.310	40	12	F
51	Sanmol Drops 15 ml	23.776	31.080	541	12	F
54	TEMPRA FORTE 60ML ORANGE	19.530	25.530	142	12	F
57	Theraskin Acne Toner Botol Puteri White	21.653	28.305	185	12	F
59	Theraskin Advanced Acne Series	12.367	13.100	1.363	12	F
60	Theraskin AHA Cleanser 100ml	12.367	13.100	377	12	F
61	Theraskin AHA Toner Botol Puteri White Opaque	12.475	13.900	344	12	F
65	Theraskin Facial Wash For Acne Skin 100ml	10.473	11.500	204	12	F
67	Theraskin Facial Wash For Oily Skin 100ml	12.549	14.500	303	12	F
69	Theraskin Oil Control Series	45.867	47.286	403	12	F
71	Theraskin Perfect Glow Series	19.530	25.530	1.327	12	F
72	Theraskin Renewal Cream 10g	16.134	21.090	1.256	12	F
74	Theraskin Serum Acne	23.352	30.525	71	12	F
80	Theraskin Suncare For Normal Skin (Mild) 10g	16.983	22.200	226	12	F
83	Theraskin Toner For Normal Skin Botol Puteri	104.805	137.000	226	12	F
85	Theraskin Whitening Cream 10g	29.296	38.295	128	12	F
86	Tolak Angin Cair 12 Pcs	19.530	25.530	1.731	12	F
87	Vicks Formula 44 Sirup 100ml	78.810	82.000	525	12	F
88	Vitacimin Sweetlets Tab 100	31.829	33.500	154	12	F
89	Woods Peppermint Expectorant (Biru) Sirup 60 ml	33.288	34.788	415	12	F
90	Y-Rins 2x12ml	29.196	30.760	147	12	F
62	Theraskin Beauty Whitening Cream 10g	12.721	13.900	566	11	F
64	Theraskin Day Cream Aha pot 10g	8.154	8.492	379	11	F
66	Theraskin Facial Wash For Normal Skin 100ml	15.851	17.500	392	11	F
82	Theraskin Suncare With Brightener 10 g	128.520	168.000	979	11	F
34	OBH COMBI BATUK & FLU RASA JAHE 60 ML	414.683	423.000	421	10	F
76	Theraskin Skin White 8 ml	26.324	34.410	71	10	F
78	Theraskin SunCare 10 gr	16.643	21.756	453	10	F
81	Theraskin Suncare For Oily Skin (Prima) 10 g	19.530	25.530	155	10	F
55	Theraskin Acne Cream 10g	16.134	21.090	147	9	F
63	Theraskin Compact Powder Whitening 14 g	13.998	14.800	52	9	F
68	Theraskin Neck Cream 10 g (Shrink)	15.851	17.000	189	9	F
79	Theraskin Suncare For Acne Pot 10g	24.625	32.190	63	8	F
84	Theraskin Toner For Oily Skin Puteri 100ml (shrink)	149.175	195.000	59	8	F

Klasifikasi ABC produk *Fast Moving*

Nama Produk	Purchase Price	Selling Price	Total	N.Investasi	Cum	%	ABC
Salep Kulit 88 Gg	6.500	16.500	1.193.813	7.759.781.721	7.759.781.721	60,03%	A
Krim 88 Anti Jamur 5g	5.400	22.750	274.009	1.479.646.700	9.239.428.422	71,48%	A
MECCADERMA 5g	86.500	127.500	13.537	1.170.976.771	10.410.405.193	80,54%	A
Alkohol Swab Pastik	18.648	31.080	18.166	338.765.036	10.749.170.229	83,16%	B
Betadine Solution 5ml	174.048	183.150	1.211	210.858.917	10.960.029.146	84,79%	B
Lukajel Antiseptic 10g	8.250	16.350	24.931	205.677.700	11.165.706.846	86,38%	B
Alkohol Swab Alkafil	13.320	22.200	13.137	174.989.987	11.340.696.833	87,73%	B
OBH COMBI BATUK & FLU RASA JAHE 60 ML	414.683	423.000	421	174.581.586	11.515.278.419	89,08%	B
Krim 88 Anti Jamur 10g	9.000	38.000	17.866	160.795.432	11.676.073.850	90,33%	B
Theraskin SunCare With Brightener 10 g	128.520	168.000	979	125.821.080	11.801.894.930	91,30%	B
Insto Regular 7,5 ml	65.000	68.400	1.900	123.498.499	11.925.393.430	92,26%	B
Minyak Kayu Putih Cap Lang 60 ml	44.345	47.000	1.589	70.468.183	11.995.861.613	92,80%	B
HOTIN STRONG TUBE 60 GR	102.680	108.000	634	65.100.831	12.060.962.444	93,31%	B
Minyak Kayu Putih Cap Lang 30 ml	62.160	64.530	1.006	62.541.023	12.123.503.467	93,79%	B
Panadol Hijau Caplet Flu dan Batuk 100s	18.681	24.420	3.142	58.703.956	12.182.207.423	94,24%	B
Vicks Formula 44 Sirup 100ml	78.810	82.000	525	41.413.980	12.223.621.403	94,56%	B
Rohto Cool 7 ml	17.832	23.310	2.152	38.374.787	12.261.996.190	94,86%	B
Cooling 5 Spray 15 ml Coolmint	233.877	246.000	151	35.330.945	12.297.327.135	95,13%	B
Tolak Angin Cair 12 Pcs	19.530	25.530	1.731	33.803.799	12.331.130.934	95,40%	B
OBH COMBI BATUK & FLU RASA MENTOL 60 ML	38.000	40.000	854	32.437.741	12.363.568.675	95,65%	B
HOTIN DCL EMULGEL 60 GR	62.833	62.200	505	31.702.544	12.395.271.219	95,89%	B
Panadol Caplet 100s Biru	20.380	26.640	1.467	29.892.508	12.425.163.727	96,12%	C
Theraskin Perfect Glow Series	19.530	25.530	1.327	25.916.907	12.451.080.634	96,32%	C
Panadol Extra 100s	17.832	23.310	1.346	24.009.268	12.475.089.902	96,51%	C
Theraskin Toner For Normal Skin Botol Puteri	104.805	137.000	226	23.663.502	12.498.753.404	96,69%	C
Salonpas 12 x 1	20.380	26.640	1.007	20.522.257	12.519.275.661	96,85%	C
Theraskin Renewal Cream 10g	16.134	21.090	1.256	20.264.116	12.539.539.777	97,01%	C
FreshCare Hot	10.471	11.000	1.869	19.569.745	12.559.109.521	97,16%	C
Theraskin Oil Control Series	45.867	47.286	403	18.484.570	12.577.594.092	97,30%	C
OBH COMBI ANAK BATUK & FLU RASA STRAWBERRY 60 ML	13.217	13.920	1.395	18.434.489	12.596.028.581	97,45%	C
Theraskin Advanced Acne Series	12.367	13.100	1.363	16.855.948	12.612.884.529	97,58%	C
Sanadryl Expectorant 120ml	39.485	51.615	409	16.167.101	12.629.051.630	97,70%	C
OBH COMBI BATUK BERDAHAK RASA JAHE 100 ML	25.824	27.000	619	15.990.031	12.645.041.660	97,82%	C
OBH COMBI BATUK BERDAHAK RASA MENTOL 100 ml	17.166	18.000	925	15.879.754	12.660.921.414	97,95%	C
Mylanta Liquid 50 ml	16.900	17.760	868	14.677.030	12.675.598.444	98,06%	C
PEDITOX 50 ML	19.530	25.530	720	14.052.604	12.689.651.048	98,17%	C
Woods Peppermint Expectorant (Biru) Sirup 60 ml	33.288	34.788	415	13.813.837	12.703.464.885	98,28%	C
MECCADERM 5g	4.950	12.750	2.728	13.503.632	12.716.968.517	98,38%	C
FreshCare Original	10.471	11.000	1.261	13.206.025	12.730.174.542	98,48%	C
Sanadryl Expectorant 60ml	16.983	22.200	764	12.975.644	12.743.150.186	98,58%	C
Sanmol Drops 15 ml	23.776	31.080	541	12.862.734	12.756.012.920	98,68%	C
OB Herbal 100 ml	18.982	19.982	619	11.747.585	12.767.760.505	98,77%	C
Minyak Kayu Putih Cap Lang 120 ml	54.069	55.167	199	10.777.752	12.778.538.257	98,86%	C
Antangin JRG Cair 12 Sachet	15.318	25.530	695	10.646.490	12.789.184.747	98,94%	C
Hotin Cream 60 gr	18.086	19.000	494	8.932.119	12.798.116.866	99,01%	C
Theraskin Toner For Oily Skin Puteri 100ml (shrink)	149.175	195.000	59	8.839.961	12.806.956.827	99,08%	C
HOTIN DCL EMULGEL 30 GR	18.447	19.500	422	7.788.107	12.814.744.934	99,14%	C
Theraskin SunCare 10 gr	16.643	21.756	453	7.539.433	12.822.284.367	99,20%	C
Theraskin Beauty Whitening Cream 10g	12.721	13.900	566	7.200.086	12.829.484.453	99,25%	C
Alkohol Swab Isopas	19.980	33.300	313	6.257.200	12.835.741.653	99,30%	C
Theraskin Facial Wash For Normal Skin 100ml	15.851	17.500	392	6.216.446	12.841.958.099	99,35%	C
Salonpas Hot Sachet	17.832	23.310	318	5.669.566	12.847.627.665	99,39%	C
Polysilane Suspensi 180 ml	19.530	25.530	277	5.414.986	12.853.042.651	99,43%	C
Vitacimin Sweetlets Tab 100	31.829	33.500	154	4.894.660	12.857.937.311	99,47%	C
Theraskin AHA Cleanser 100ml	12.367	13.100	377	4.662.284	12.862.599.595	99,51%	C
Hotin Cream Tube 60 gr	14.176	14.950	325	4.608.122	12.867.207.716	99,54%	C
Y-Rins 2x12ml	29.196	30.760	147	4.306.071	12.871.513.787	99,58%	C
Theraskin AHA Toner Botol Puteri White Opaque	12.475	13.900	344	4.291.006	12.875.804.793	99,61%	C
Theraskin Acne Toner Botol Puteri White	21.653	28.305	185	4.015.176	12.879.819.969	99,64%	C
Theraskin SunCare For Normal Skin (Mild) 10g	16.983	22.200	226	3.844.102	12.883.664.071	99,67%	C
Theraskin Facial Wash For Oily Skin 100ml	12.549	14.500	303	3.802.211	12.887.466.282	99,70%	C
Theraskin Whitening Cream 10g	29.296	38.295	128	3.758.049	12.891.224.331	99,73%	C
Theraskin Day Cream Aha pot 10g	8.154	8.492	379	3.090.305	12.894.314.636	99,75%	C
Theraskin SunCare For Oily Skin (Prima) 10 g	19.530	25.530	155	3.024.290	12.897.338.926	99,78%	C
Theraskin Neck Cream 10 g (Shrink)	15.851	17.000	189	3.002.142	12.900.341.067	99,80%	C
TEMPRA FORTE 60ML ORANGE	19.530	25.530	142	2.775.798	12.903.116.865	99,82%	C
Natur E 100IU 32 Kapsul	18.426	19.000	142	2.625.140	12.905.742.005	99,84%	C
Becom-Zet 10 kps	30.500	32.000	79	2.420.683	12.908.162.689	99,86%	C
Theraskin Acne Cream 10g	16.134	21.090	147	2.365.222	12.910.527.911	99,88%	C
Enervon C Tab 30s	10.471	11.000	224	2.341.593	12.912.869.504	99,90%	C
Becom-C 10 kps	21.312	35.520	107	2.271.405	12.915.140.909	99,91%	C
Theraskin Facial Wash For Acne Skin 100ml	10.473	11.500	204	2.136.461	12.917.277.370	99,93%	C
Theraskin Skin White 8 ml	26.324	34.410	71	1.869.058	12.919.146.428	99,95%	C
Theraskin Serum Acne	23.352	30.525	71	1.667.073	12.920.813.501	99,96%	C
Theraskin SunCare For Acne Pot 10g	24.625	32.190	63	1.555.756	12.922.369.256	99,97%	C
Sanafly PE 4 Tabs	19.530	25.530	66	1.292.552	12.923.661.808	99,98%	C

Decolgen Tabs	4.917	5.717	230	1.130.252	12.924.792.060	99,99%	C
Theraskin Compact Powder Whitening 14 g	13.998	14.800	52	730.670	12.925.522.730	99,99%	C
Sangobion 250 (25 strip x 10 kps)	17.832	23.310	40	716.842	12.926.239.572	100,00%	C

Lampiran 7 Tabel Distribusi Normal

TABEL B.

Deviasi Normal Standar z	Kemungkinan Kekurangan α	Ordinat $f(z)$	Ekspektasi Parsial $\psi(z)$
-4.00	.9999	.0001	
.00	.5000	.3989	.3989
.05	.4801	.3984	.3744
.10	.4602	.3969	.3509
.15	.4404	.3945	.3284
.20	.4207	.3910	.3069
.25	.4013	.3867	.2863
.30	.3821	.3814	.2668
.35	.3632	.3752	.2481
.40	.3446	.3683	.2304
.45	.3264	.3605	.2137
.50	.3086	.3521	.1978
.55	.2912	.3429	.1828
.60	.2743	.3332	.1687
.65	.2579	.3229	.1554
.70	.2420	.3123	.1429
.75	.2267	.3011	.1312
.80	.2119	.2897	.1202
.85	.1977	.2780	.1100
.90	.1841	.2661	.1004
.95	.1711	.2541	.0916
1.00	.1587	.2420	.0833
1.05	.1469	.2300	.0757
1.10	.1357	.2179	.0686
1.15	.1251	.2059	.0621
1.20	.1151	.1942	.0561
1.25	.1057	.1826	.0506
1.30	.0968	.1714	.0455
1.35	.0886	.1604	.0409
1.40	.0808	.1497	.0367
1.45	.0736	.1394	.0328
1.50	.0669	.1295	.0293
1.55	.0606	.1200	.0261
1.60	.0548	.1109	.0232
1.65	.0495	.1023	.0206

(Bersambung)

Deviasi Normal Standar z	Kemungkinan Kekurangan α	Ordinat $f(z)$	Ekspektasi Parsial $\psi(z)$
1.70	.0446	.0940	.0183
1.75	.0401	.0863	.0162
1.80	.0360	.0790	.0143
1.85	.0322	.0721	.0126
1.90	.0288	.0656	.0111
1.95	.0256	.0596	.0097
2.00	.0228	.0540	.0085
2.05	.0202	.0488	.0074
2.10	.0179	.0440	.0065
2.15	.0158	.0396	.0056
2.20	.0140	.0355	.0049
2.25	.0122	.0317	.0042
2.30	.0107	.0283	.0037
2.35	.0094	.0252	.0032
2.40	.0082	.0224	.0027
2.45	.0071	.0198	.0023
2.50	.0062	.0175	.0020
2.55	.0054	.0154	.0017
2.60	.0047	.0136	.0015
2.65	.0040	.0119	.0012
2.70	.0035	.0104	.0011
2.75	.0030	.0091	.0009
2.80	.0026	.0079	.0008
2.85	.0022	.0069	.0006
2.90	.0019	.0059	.0005
2.95	.0016	.0051	.00045
3.00	.0015	.0044	.00038
3.10	.0010	.0033	.00027
3.20	.0007	.0024	.00018
3.30	.0005	.0017	.00013
3.40	.0004	.0012	.00009
3.50	.0003	.0009	.00006
3.60	.0002	.0006	.00004
3.80	.0001	.0003	.00002
4.00	.00003	.0001	.00001

Lampiran 8 Plagiarisme

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