

Cost Estimate of VT-705 and T-52January 1943

| | Consumption Amount | Price for 1000 Units RM. | Amount RM. |
|--|---------------------------|--------------------------------|---------------------|
| 1. Raw Materials | | | |
| Hydrogenation coal | kg 43,057,300 | 20.81 | 895,884.00 |
| Generator coke | " 26,324,000 | 17.65 | 464,619.00 |
| Gas | m ³ 13,283,500 | 11.82 | 157,060.00 |
| Dilution oil | kg 757,350 | 106.67 | 80,789.00 |
| Ethyl benzene distilla- tion residue | kg 63,630 | 65.36 | 4,159.00 |
| Middle oil | " 867,440 | 112.52 | 97,606.00 |
| Y-oil | " 860,780 | 113.43 | 97,635.00 |
| DHD Middle oil | " 17,190 | 175.00 | 3,008.00 |
| B Middle Oil | " 5,210 | 275.00 | 1,433.00 |
| Intermediate fraction II | " 51,750 | 229.39 | 11,871.00 |
| Isobutane | " 1,121,970 | 340.53 | 382,069.00 |
| Motor gas, that was not sent to Spain, but to separating plant. | " 1,465,352 | 96.92 | 142,022.00 |
| | | | 2,338,155.00 |
| 2. Auxiliary Materials "Kadra" lime 23,900 kg. | | | |
| Coal | kg 1,249,000 | 14.88 | 18,587.00 |
| Gas phase catalyst VT-705 | | | 65,000.00 |
| Gas phase catalyst T-52 | | | 178,300.00 |
| Iron oxide catalyst | | | 23,400.00 |
| Gas purification mass | | | 9,300.00 |
| Catalyst I ammonium chlor- ide | kg 355,930 | 170.46 | 60,673.00 |
| Catalyst II tin oxalate | " 11,800 | 2,762.00 | 32,592.00 |
| Catalyst IIa lead acetate | " 27,250 | 539.02 | 14,688.00 |
| Catalyst III Soda | " 793,780 | 79.38 | 63,211.00 |
| Hydrous ferrous sulfate | " 286,000 | 28.60 | 8,211.00 |
| Lump sulfur | " 4,470 | 119.31 | 533.00 |
| Special sulfur | " 112,630 | 75.00 | 8,447.00 |
| Alkazid solution | " 7,200 | 1,608.20 | 11,579.00 |
| Sodium hydroxide sol. | " 401,788 | 94.90 | 38,129.00 |
| White lime | " 120,210 | 18.30 | 629.00 |
| Trisodium phosphate | " 3,160 | 195.00 | 616.00 |
| Ammonia water | " 19,500 | 113.44 | 2,212.00 |
| Sodium chloride | " 1,200 | 29.00 | 35.00 |
| | | | 538,342.00 |
| 3. General Finishing Costs | | | |
| a) Energy: Electricity | kWh 48,830,200 | 17.24 | 841,729.00 |
| Steam | kg 116,990,000 | 2.25 | 263,248.00 |
| Water | m ³ 1,630,756 | 72.16 | 117,680.00 |
| b) Taxes | | | 358,684.00 |
| c) Capital: Amortization | | | 1,275,000.00 |
| Interest | | | 454,917.00 |

| | <u>Consumption</u> | <u>Price/1000 units</u> RM. | <u>Amount</u> 67 RM |
|---|--------------------|--------------------------------|------------------------|
| 3 General Finishing Costs (Cont'd) | | | |
| d) Miscellaneous expenses | | | |
| Salaries | | | 233,137.00 |
| Wages | | | 875,485.00 |
| Employers' share | | | 89,446.00 |
| War aid | | | 8,300.00 |
| Store room | | | 151,223.00 |
| Accounts | | | 147,630.00 |
| Insurance | | | 50,000.00 |
| Pension | | | 15,000.00 |
| Licenses | | | 178,379.00 |
| Miscellaneous | | | 69,400.00 |
| | | | <u>5,129,258.00</u> |
| Total 1 to 3 d | | | <u>8,005,755.00</u> |
| e) Credits | | | |
| Motor gas | | | 300,881.00 |
| Household propane | | | 16,295.00 |
| Coal hydrogenation pitch | | | 116,698.00 |
| Plant adjoining costs | | | 60,000.00 |
| Gas supply to chemical works, Hills | | | 83,333.00 |
| Byproducts | | | 186,035.00 |
| Shop work for new buildings | | | 270,110.00 |
| Miscellaneous | | | 149,807.00 |
| | | | <u>1,183,159.00</u> |
| Costs of 18,048 tons VT-705 & 1,661 tons T-52 | | | 6,822,596.00 |
| Deduct: From costs of T-52, motor gas sent to separating plant at RM 292.40/ton | | | |
| 1,661 tons T-52 | | | 1,936,399.00 |
| T-52, per ton | | | 1,165.80 |
| 18,048 tons VT-705 | | | 4,886,197.00 |
| VT-705, per ton | | | 270.73 |

Bag 2743 Target No. 30/4.09 - Scholven
Item 6 (D)

Cost Estimate for June 1941

| | | | | RM. | Per ton Benzine |
|--------------------------------------|------------|------------------------|---------|--------------|--------------------|
| Hydrogenation coal | 29,416.3 | t at RM | 16.61 | 488,743.00 | 36.84 |
| Generator coke | 18,013 | " | 17.63 | 317,577.00 | 23.93 |
| Gas | 8,520,030 | m ³ at Pfg. | 1.22 | 103,519.00 | 7.80 |
| Dilution oil | 998.95 | t at RM | 83.29 | 83,201.00 | 6.27 |
| Middle oil | 498.753 | " | 87.71 | 43,745.00 | 3.30 |
| " " (Y-oil) | 1,022.636 | " | 94.09 | 96,216.00 | 7.25 |
| Hydrogenation naphthalene | 878.541 | " | 99.21 | 87,162.00 | 6.57 |
| Styrene residus | 63.32 | " | 65.05 | 4,119.00 | .31 |
| Catalyst I (ammonium chloride) | 324.2 | " | 220.34 | 71,433.00 | 5.38 |
| " II (tin oxalate) | 8.1 | " | 2761.57 | 22,368.00 | 1.69 |
| " III (soda) | 31.5 | " | 529.05 | 16,665.00 | 1.26 |
| Iron oxide contact | | | | 34,000.00 | 2.56 |
| Gas phase contact Cv 2b | | | | 42,600.00 | 3.21 |
| " " " VT 705 | | | | 26,500.00 | 2.00 |
| Lump sulfur | 15 | t at RM | 118.46 | 1,777.00 | .13 |
| Special sulfur | 39 | " | 119.00 | 4,641.00 | .35 |
| Alkacid solution | 2.73 | " | 1609.11 | 4,393.00 | .33 |
| Sodium hydroxide solution | 22 | " | 95.51 | 21,465.00 | 1.62 |
| White lime | 162.9 | " | 18.05 | 2,941.00 | .22 |
| "Kadra" hydrate of lime | 6.6 | " | 26.40 | 1,742.00 | .13 |
| Ammonia liquor | 16.27 | " | 103.75 | 1,688.00 | .13 |
| Electricity | 38,163,150 | KWH at Pfg. | 1.83 | 696,769.00 | 52.52 |
| Water | 1,119,648 | m ³ at Pfg. | .72 | 80,820.00 | 6.09 |
| Steam | 59,775 | t at RM | 2.25 | 134,494.00 | 10.14 |
| Salaries | | | | 233,176.00 | 17.58 |
| Wages | | | | 723,098.00 | 54.50 |
| Workers contributions | | | | 76,502.00 | 5.77 |
| War assistance | | | | 8,596.00 | .65 |
| Taxes | | | | 252,710.00 | 19.05 |
| Stock material | | | | 70,516.00 | 5.32 |
| Accounting | | | | 220,000.00 | 16.58 |
| Insurance | | | | 30,750.00 | 2.32 |
| Pension | | | | 11,800.00 | .89 |
| Miscellaneous | | | | 53,350.00 | 4.02 |
| | | | | 4,069,076.00 | 306.71 |
| Credits: | | | | | |
| Ruhr Gasol and propane | | | | 372,265.00 | 28.06 |
| Ethylene and nitrogen | | | | 2,667.00 | .20 |
| Shop work for new building | | | | 160,000.00 | 12.06 |
| Division of plant costs | | | | 50,000.00 | 3.77 |
| Ammonia liquor | | | | 7,648.00 | .58 |
| Gas supplied to chemical works, Htla | | | | 62,500.00 | 4.71 |
| Miscellaneous | | | | 47,162.00 | 3.55 |
| Byproducts | | | | 133,932.00 | 10.10 |
| | | | | 3,232,902.00 | 243.68 |
| License | | | | 111,000.00 | 8.37 |
| Amortization | | | | 836,200.00 | 63.03 |
| Interest | | | | 349,336.00 | 26.33 |
| Total amount for 13,267 tons | | | | 4,529,438.00 | 341.41 |

Bag 2743 Target No. 30/4.09 Scholven,
Item 6 (F)

Cost Estimates

| | Raw Materials | | Catalysts, Auxiliary Materials | | Utilities | | Salaries and Contributions | | Taxes | | Accounting, Insurance and Misc. | | License Amortization & Interest | | Less Credits Byproducts and Misc. | | Total | | Fons Product |
|-----------------|---------------|----------|--------------------------------|----------|-----------|----------|----------------------------|----------|------------|----------|---------------------------------|----|---------------------------------|----|-----------------------------------|----|-------|----|--------------|
| | RM | RM | RM | RM | RM | RM | RM | RM | RM | RM | RM | RM | RM | RM | RM | RM | RM | RM | |
| Jan. 1941 Total | 1,380,212. | 276,467. | 1,125,263. | 930,521. | 220,319. | 436,856. | 1,271,650. | 615,560. | 5,025,310. | 16,599 | | | | | | | | | |
| Per ton | 83.12 | 16.64 | 67.80 | 56.06 | 13.27 | 26.33 | 76.61 | 37.08 | 302.75 | | | | | | | | | | |
| June 1940 Total | 1,113,872 | 269,516 | 950,512 | 778,589 | 171,412 | 360,105 | 1,201,590 | 431,833 | 4,414,363 | 12,958 | | | | | | | | | |
| Per ton | 85.90 | 20.70 | 73.40 | 60.20 | 13.20 | 27.70 | 82.70 | 33.20 | 340.60 | VT 705 | | | | | | | | | |
| Jan. 1940 Total | 1,265,463 | 288,042 | 1,055,331 | 696,832 | 180,957 | 355,000 | 1,246,258 | 225,880 | 4,860,669 | 15,374.8 | | | | | | | | | |
| Per ton | 82.31 | 18.74 | 68.51 | 45.33 | 11.77 | 23.09 | 81.06 | 11.69 | 316.12 | VT 705 | | | | | | | | | |
| June 1939 Total | 1,097,494 | 254,912 | 928,849 | 725,000 | 182,000 | 333,000 | 1,225,404 | 234,897 | 4,511,762 | 15,427 | | | | | | | | | |
| Per ton | 71.14 | 16.52 | 60.21 | 46.99 | 11.80 | 21.59 | 79.43 | 15.23 | 292.45 | Bensine | | | | | | | | | |
| Jan. 1939 Total | 1,013,436 | 203,478 | 725,492 | 590,000 | 160,800 | 264,000 | 1,189,409 | 147,672 | 3,998,943 | 13,351 | | | | | | | | | |
| Per ton | 75.91 | 15.24 | 54.34 | 44.19 | 12.04 | 19.77 | 89.09 | 11.06 | 299.52 | Bensine | | | | | | | | | |
| June 1938 Total | 557,785 | 119,928 | 437,148 | 452,000 | 114,000 | 267,757 | 752,478 | 90,916 | 2,610,180 | 7,741.4 | | | | | | | | | |
| Per ton | 72.06 | 15.50 | 56.46 | 58.39 | 14.73 | 34.59 | 97.21 | 11.74 | 337.20 | Bensine | | | | | | | | | |
| Dec. 1937 Total | 645,639 | 168,242 | 564,904 | 448,500 | 356,333 | 265,500 | 1,048,733 | 275,680 | 3,222,171 | 9,600.2 | | | | | | | | | |
| | 67.25 | 17.52 | 58.84 | 46.72 | 37.12 | 27.66 | 109.24 | 28.72 | 335.63 | | | | | | | | | | |