

50X1-HUM

Hungarian Reparations Deliveries

to the USSR in 1945

Enclosure to Report no
R-87-50, ID688588
Budapest, 24 July 1950

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CONFIDENTIAL**HUNGARIAN REPARATIONS DELIVERIES
TO THE USSR IN 1945**

This is a summary of enclosure to ID 688,588, dated 24 July 1950 from O ArmA, Budapest. It is a 96-page document of specifications of equipment and commodities to be shipped to the USSR by Hungary as reparations during 1945. 112 specifications are listed, each of which contains detailed descriptions of the items or commodities to be shipped.

The covering transmittal report by Army Attache incorrectly describes the document as one "dealing with electric power information on Hungary".

For additional information, see ACC Report from Budapest R-83-47, ID #406350 dated 26 Aug 1947 which contains another copy of the specifications (untranslated) as well as a translation of the reparations agreement, delivery schedules, and a list of equipment and commodities to be delivered with amounts and monetary values.

Specification No 1

Complete equipment of the Hatvan electric power plant with transformers, laboratories, and technical documentation. The equipment includes six steam boilers of 65 atmospheric pressure and 56-70 tons of steam output per hour each and three 34,000 kw and one 5,500 kw turbo-generators. Requirements include all equipment located within or outside of the power plant. Delivery must be allinclusive in all details to assure reassembly and operation of the power plant at full efficiency as a complete single unit.

Specification No 2

Complete equipment of the Ajka electric power plant. Equipment includes four Sulzer-type boilers of 80 atmospheric pressure and 40-50 tons of steam output per hour each, two 19,000 kw turbogenerators, complete water supply equipment, etc. Delivery must be complete in all details to permit reassembly and operation of a 38,000 kw electric power plant as a self-sufficient unit.

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Specification No 3

Complete equipment of the Manfred Weiss electric power plant. Equipment includes three Sulzer-type boilers of 100 atmospheric pressure and 40-48 tons of steam output per hour, one 15,200 kw "Vorschalt" turbine and one 20,000 kw low-pressure turbine. Delivery must be complete in all details to permit reassembly operation of a 35,200 kw power plant as a self-sufficient unit.

Specification No 4

Complete equipment of the new Nemenyi Testverek (Nemenyi Brothers) electric power plant. Equipment includes two Sulzer-type boilers of 100 atm. pressure and 40-50 tons of steam output per hour each, one "Vorschalt" turbine, etc. Delivery must be complete to permit reassembly, operation, and expansion of the power plant. Parts of equipment not in stock must be manufactured and delivered within the time limit stated.

Specification No 5

One 10,000 kw steam turbogenerator with a 3,150 volt generator from the electric power plant of the city of Pecs, with technical documentation.

Specification No 6

Turbogenerator of the electric power plant of the city of Szeged, including a 4,000 kw generator with complete equipment and technical documentation.

Specification No 7

Light-metal working plant and rolling mill with complete equipment from stock at Szekesfehervar. Equipment includes electro-furnaces; seven Junkerstype molds; two presses, one 15-ton crane; one Junkers-type electro-induction furnace for nonferrous metals with a capacity of 800 kilograms; one complete rolling plant; consisting of two warm and two cold rolling mills; etc.

Specification No 8

Equipment from the Lampart nonferrous metal foundry and rolling mill. Equipment includes two mechanized foundries; one Junker-type electric furnace; one 1,000-ton and 2,500-ton hydraulic press; etc.

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Specification No 9

Schlehmann-type fine rolling mill with a capacity of 42,000 tons per year from the Ozd plant of the Rimamurany-Salgotarjani Iron Works. Equipment includes electromagnetic cranes, cooling plant, electric and thermal furnaces, etc.

Specifications 10-19

Deliveries from the Almasfuzito bauxite works:

- 1) Pfeiffer-type cutting equipment.
- 2) MIAG ball mill for the milling of bauxite.
- 3) Ten complete autoclaves of 30 cubic meters each for the treatment of bauxite with lye.
- 4) Four 5-chamber Dorr condensers of 14-meter diameter, two 5-chamber Dorr condensers of 11-meter diameter, and one 6-chamber Dorr condenser of 6-meter diameter.
- 5) Kelly filters with a surface of 100 square meters, with directions as to operation and material to be filtered, diagrams, and technical data.
- 6) Four "Imperial" filters with a surface of 25 square meters and 12 square meters each.
- 7) Korting-type cooling equipment for the cooling of aluminate solutions.
- 8) Pfeiffer-type rotating ovens; length 50 meters, diameter 2.4-2.8 meters.
- 9) Fogelbusch-type vaporizing batteries. Four apparatus, complete with accessories.
- 10) Appliances and accessories for the 7-meter cutters, including electric motors, spare parts, and technical documentation.

Specification No 20

Krelius-type new drill benches from existing stock with a drill depth of 300 meters.

Specification No 21

Complete equipment of the Miskolc magnesia factory, including spare parts for one year's operation.

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Specification No 22

Metal-working equipment from the Miskolc MAVAG (Steel and Machine Works of the Hungarian State Railroads). Equipment includes 93 milling machines, 65 lathes, 25 polishing benches, 3,500 polishing and grinding discs, 22 automatic machines, and 9 other machine tools.

Specification No 23

Metal-working equipment from the Lampart Arms Works, Budapest, complete with electric motors, accessories, and documentation. Equipment includes 93 various machine tools, 5 compressors, 2 rotating bellows, 3 high-pressure centrifugal pumps, 1,500 polishing and grinding discs, etc.

Specification No 24

Forge press shop equipment from MAVAG with spare parts and documentation. Equipment includes one Banning-type steam hammer, two 6-ton, two 3-ton, one 1,600-kg, three 1.5-ton, four 750-kg, two 4-ton, one 2-ton, and 1-ton, and three 500-kg steam hammers; one 150-ton and one 350-ton horizontal hammers; one 300-kg pneumatic and one 200-kg spring hammer; three 800-ton, one 100-ton, two 450-ton, and two 300-ton spindle friction presses; three 250-ton, one 200-ton, and one 150-ton eccentric presses; twelve circular saws; two 500-ton friction presses; and one guillotine shear.

Specification No 25

Forge press shop equipment from the Lampart Arms Works, Budapest, with electric motors, accessories, tools, and documentation. Equipment includes five 15-ton, twenty-seven 10-ton, eleven 30-ton, ten 5-ton, six 1-ton, two 20-ton, one 25-ton, four 40-ton, two 70-ton, four 50-ton, one 80-ton, seven 140-ton, one 100-ton, two 90-ton, one 65-ton, two 1,500-ton, and one 1,300-ton eccentric presses.

Specification No 26

Equipment from the Budapest Gamma optical and mechanical works with electric motors, laboratory equipment, and documentation. Equipment includes one 750x600x1,500, and one 700x550x1,500, and one 500x750x1,000

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"Heracut" electric furnaces for the drying of lenses, as well as complete lathe, milling automatic machine, apprentice, machine tool, repair, and preparation shops.

Specification No 27

The wood-treatment, grading and acidifying shop equipment of Nemenyi Testverek cellulose factory with an output of 100 tons of cellulose per day.

Specification No 28

No 4 Fojt-type paper-making machine from the Nemenyi Testverek paper factory, built in 1932 at St. Polten, with a cutting width of 3,800 mm; two Jordan-type mills; Trimbei-type graders; etc.

Specification No 29

Gress & Goye-type dyeing cylinder equipment, built in 1936, with one-meter cutting width.

Specifications 30-32

Paper manufacturing equipment:

- 1) Two Grell & Goye calenders with 9 and 3 cylinders, respectively.
- 2) Tell universal envelope making machine.
- 3) Universal paper band cutting machine, built by Gerauff, Dusseldorf, in 1941, from Chromo Paper Processing Works.

Specification No 33

Complete hosiery knitting equipment of the following plants:

- 1) Erzsebetfalva, Pestszenterzsebet
- 2) Dukez & Pelczer, Budapest
- 3) Elso Magyar Szovo Fono Gyar (First Hungarian Spinning and Weaving Mill), VAC
- 4) Cserbezs & Zsironyi, Budapest
- 5) Alex Perlesz, Pestszenterzsebet
- 6) Guttmann & Fekete, Budapest

Specification No 34

Complete spinnery equipment of the following plants:

- 1) Pamutipar (Cotton Industry), Ujpest
- 2) Dreher & Haggemacher, Budapest

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3) Vaci Fonogyar R. T. (VAC Spinnery Corporation), Vac

4) Satorszele & Suto, Nyergesujfalu (Esztergom County)

All equipment to be crated according to specifications dated 11 June 1945 of the Commercial Bank.

Specifications 35-37

Complete equipment of the following chemical works:

- 1) Chinoin Pharmaceutic Factory, If new equipment is shipped instead of the existing equipment, delivery must be completed by December-January 1946.
- 2) "Alkaloid" Chemical Factory, except the prime movers and the mechanical shop.
- 3) Fuzfo Nitro Glycerin Factory, including: a) repair shop; b) nitroglycerin powder plant; c) pyroxiline plant; d) pyroxiline powder plant; and e) explosive plant.

Specification No 38

Complete equipment of the Sandor Okros Denture Factory.

Specification No 39

Complete equipment of the medicinal bottle-making plant of the Orion Factory with technical description of each machine and process.

Specification No 40

Complete equipment of the Hungarian Pharma Pharmaceutical Factory with technical description of each apparatus and process and of all products manufactured.

Specification No 41

Complete equipment of the "Amko" bottle-making plant of the Skoda Works. The equipment has a daily output of 34,000 bottles. Technical documentation must be furnished with the delivery. The missing parts of the equipment must be shipped to the USSR by 20 January 1946.

Specifications 42-49

- 1) Thread cutting lathes with a center height of 185 mm and a distance of 1,000 mm between centers, model E, for cutting threads both in millimeters

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and inches. Each lathe weighs 1,250 kilograms. Complete equipment with technical documentation.

2) Thread-cutting lathes with a center height of 250 mm and a distance of 3,000 mm between centers, model EO. Weight of lathe 2,400 kilograms. Complete equipment with technical documentation.

3) Horizontal "shaping" lathes, model SMH, with a stroke of 550 mm; weight 1,550 kilograms. Complete equipment with documentation.

4) Horizontal milling machines 1,550 x 415 mm, model 2EF; weight 3,300 kilograms.

5) Vertical milling machines 1,550 x 415 mm, model UF2; weight 3,600 kilograms; with five extra electric motors per 100 machines.

6) Universal milling machines 1,550 x 415 mm, model UF2 with electric motors. Weight 3,400 kilograms.

7) Radial drills for steel; stroke 60 mm; extension 1,500 mm; model RF.3.a, with one extra electric motor per 100 machines. Net weight 5,700 kilograms.

Complete equipment, as well as technical documentation is included in the requirements for each of the above items. Currently (in 1945) each machine delivered must be equipped for operation by steam, gas, or diesel engine; beginning with the second reparations year, however, the machines must be equipped for operation by electrical power.

Specification No 50

"Washington Iron"-type 3-5 ton electric cranes. Complete equipment with spare parts for 3 years. Equipment must conform to the specifications of the engineers delegated by the USSR Register.

Specification No 51

Five-ton-steam rollers for road building according to Soviet specifications.

Specifications 52-53

1) Mine trucks with one cubic meter, 2.5 ton capacity, 750-millimeter gauge, according to Soviet specifications.

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2) Mine trucks with 2.2 cubic meter capacity, 900-mm gauge, according to Soviet specifications.

Specification No 54

Centrifugal electric water pump with an output of 150 cubic meters per hour and 100 meters height of pumping.

Specification No 55

Aluminum pistons for automobiles and gasoline tractors according to Soviet specifications.

Specification No 56

Complete 120 kw broadcasting station. Technical documentation for each station. Construction and operation of the station must conform to Soviet specifications.

Specification No 57/A

Complete automatic telephone exchanges each for 3,000 lines, suitable for expansion to 10,000 lines. Equipment includes spare parts for 5 years operation, cables, 3,000 receivers and coin stations, complete set of operating and regulating instruments, an extra set of instruments and parts for regulation and repair work, and complete technical description together with maintenance calendar for each automatic exchange. All equipment must conform to Soviet regulations.

Specification No 57/B

Automatic telephones, types according to the choice and specifications of the USSR. All telephones must be equipped with spare parts and cords for 5 years operation. The dials must show also the Cyrillic alphabet.

Specification No 58

Explosion-proof 3.7 kw induction motors.

Specifications 59-70

- 1) Electric meters with copper and copper-alloy wiring.
- 2) Standard-type tone generators with frequencies of 90 kilohertz - 35 megahertz and outgoing tension of 0/5 microvolt - one volt. Interior modulation 30-15,000 hertz.

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- 3) Simplified Standard generators with an outgoing tension of one micro-volt - 0.1 volts.
- 4) Simplified tone generators. Outgoing effect 2 watts, outgoing resistance 50, 500, and 5,000 ohm.
- 5) Generators with stabilized frequencies. Frequencies 100, 400, 1,000, 2,000, and 5,000 herz (with switch). Outgoing resistance 50, 500, and 5,000 ohm.
- 6) Laboratory volt meter tubes for low frequencies for one million to 100 volts.
- 7) High-frequency volt meters for power grids. Limits of measurement 0.1-300 volts.
- 8) Battery-fed high-frequency volt meter tubes. Limits of measurement 0.05-300 volts.
- 9) Grid-fed DC volt meter tube. Limits of measurement 0.16 - 500 volts. Incoming resistance 10 megaohm.
- 10) Volt meter tubes for DC batteries. Limits of measurement 0.16 - 500 volts. Incoming resistance 10 megaohm.
- 11) Resonant wave meters for all waves. Diapason 90 kilohertz - 50 megahertz. Accuracy of measurement 0.25 percent.
- 12) Ultra-short wave resonant wave meters. Diapason 50 - 500 megahertz. Accuracy of measurement one percent.
- 13) Low-frequency 3-inch oscillographs for laboratories. Sensitivity without strengthening 0.35 mm/volt. Frequency diapason 10 - 15,000 herz.
- 14) Permanent magnets for radio and telephone equipments according to Soviet specifications. Types and details will be specified in the orders.

NOTE FOR ITEMS 2-13 ABOVE

- 1) The instruments must be equipped with American glass or wire spheres; in addition, five complete extra tubes per set are required.
- 2) The sets are fed from a 110, 127, or 220 volt AC grid with a frequency of 50 herz.
- 3) All sets must be structurally and technically reliable in accordance with modern technical standards.

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- 4) All sets must conform to Soviet specifications and must be accompanied by complete technical documentation, tools, and spare parts.

Specifications 71-78

- 1) Enameled special-steel reaction chambers and press filters. Capacity 150 - 1,000 liters.
- 2) Venullet-type stainless-steel vacuum dryers.
- 3) Thermosilite armature for 10 atm. operating pressure at 200 centigrade.

Specification No 79

Complete ammonia cooling equipment with a capacity of 40,000 calories per hour, equipped with Linde evaporator.

Specifications 80-84

- 1) Centrifugal milk pumps with a capacity of 5,000 liters each.
- 2) Cream vats with a capacity of 1,000 liters each.
- 3) Butter-making machines with a capacity of 800 liters each.
- 4) 160 Alfa-Laval milk separators with a capacity of 500 liters per hour each.
- 5) Hand-operated Alfa-Laval milk separators with a capacity of 300 liters per hour each.

Specification No 86

Table alarm clocks according to Soviet specifications.

Specification No 87

Mixing machines for Dorra condensers according to Soviet specifications, including six 5-chamber and two 3-chamber mixers with 14 meter diameter.

Specification No 88

Autoclaves for bauxite production with a capacity of 30 cubic meters, according to Soviet specifications.

Specification No 89

Sweatland filter presses No 10 according to Soviet specifications.

Specification No 90

Four-part Vogelbusch vacuum evaporating batteries, each with a 1,000 square meter heating surface, according to Soviet specifications.

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Specification No 91

Gas generators with 3-meter diameter according to Soviet specifications.

Specification No 92

Boilers for central heating systems for low-value coal with 70 square meter heating surface, according to Soviet specifications.

Specification No 93

Radiators for central heating systems.

Specification No 94

50 HP stationary motors with generators.

Specification No 95

Abrasives according to Soviet specifications.

Specification No 96

Series 424 locomotives, type 2 - 4 - 0, of the MAVAG for 1,524-mm gauge, to be delivered in 1945. Spare parts, together with technical descriptions in Russian, will be furnished for all 18 locomotives.

Specification No 97

Diesel passenger trains for 1,524-mm gauge, to be delivered in 1945. Technical documentation in Russian. Spare parts must be furnished free of charge.

Specification No 98

Amphibious self-propelling cranes with a capacity of 100, 50, and 25 tons., with seagoing steel pontoons equipped with icebreakers. Reinforced deck to accommodate 200-300 tons of freight. To carry fuel and water supply for 15 days. Quarters for a crew of 15, plus state room for 4 persons. According to Soviet specifications.

Specifications 99-110

- 1) 660,000 tons of wheat to be delivered in 1945, according to Soviet specifications.
- 2) 14,000 tons of ground corn, delivered in 1945.

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- 3) 3,000 tons of clover seed.
- 4) 2,500 tons of blue alfalfa.
- 5) 2,500 tons of beans, 2,500 tons of peas, 1,000 tons of winter vetch, 1,000 tons of spring vetch, 2 tons of tomato seed, two tons of watermelon seed, 50 tons of beet seed, 165 tons of onion seed, 160 tons of carrot seed, and 20 tons of cucumber seed.
- 6) 5,000 tons of slaughtered hogs.
- 7) 3,850,000 [sic] phylloxera-resistant American grapevines, 55,000 European grapevines, 7,500 grams of flower seeds, 61,600 various fruit tree saplings (peach, almond, apple, etc.), 21,900 rose tree and other saplings; all to be delivered by 14 January 1945.
- 8) 180,000 tons of bacon.

Specification No 111

- 39,786 tons of gasoline
- 26,000 " " petroleum
- 15,000 " " diesel oil
- 2,000 " " lubricants

All according to Soviet specifications.

Additional Items No 164-165

Various steel machine parts from MAVAG, Ganz, Siemens, and other works, according to Soviet specifications, to be delivered by 20 January 1946.

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