

WARTIME SUPPLIES FOR SOVIET UNION

London protocol (third protocol) signed at London October 19, 1943

Operative July 1, 1943, to June 30, 1944

*Replaced by Ottawa protocol (fourth protocol) of April 17, 1945*¹

Department of State, *Soviet Supply Protocols* (U.S. Government Printing Office, 1947), p. 49

THIRD PROTOCOL

The Government of the United States, the Government of the United Kingdom and the Government of Canada, recognising the outstanding contribution of the Union of Soviet Socialist Republics in the prosecution of the war against the common enemy, and desiring to continue to provide the Government of the Union of Soviet Socialist Republics with the maximum assistance possible in the form of military supplies, raw materials, industrial equipment and food, and the Government of the Union of Soviet Socialist Republics desiring to assist the Governments of the United States, the United Kingdom and Canada in meeting their war needs for raw materials and other supplies, have agreed as follows:

ARTICLE I

The Governments of the United States, the United Kingdom and Canada, undertake to make available for dispatch to the Government of the Union of Soviet Socialist Republics, during the period the 1st July, 1943, to the 30th June, 1944, the supplies mentioned in the schedules annexed hereto under the conditions stated therein.

ARTICLE II

The Governments of the United States and the United Kingdom will aid in the movement of the supplies offered, by furnishing shipping as set forth in the schedules annexed hereto, it being understood that these commitments as to shipping may be reduced if shipping losses, lack of escorts, deficiencies in the anticipated capacity of the available routes, the necessities of other operations, or the exigencies of the situation render their fulfilment impracticable.

ARTICLE III

The Government of the Union of Soviet Socialist Republics undertakes to make available for dispatch to the Governments of the United States, the

¹ *Post*, p. 1041.

United Kingdom, and Canada, within the period covered by the present protocol, such raw materials and other supplies as may be available and as are desired by the said Governments in the prosecution of the war.

ARTICLE IV

The financial arrangements concluded between the Government of the Union of Soviet Socialist Republics on the one hand and the Governments of the United States and the United Kingdom, respectively, on the other in connection with the supplies furnished in pursuance of the protocol signed between the parties in Washington on the 6th October, 1942,² shall continue to govern the provision of supplies furnished by the Governments of the United States and the United Kingdom in pursuance of the present protocol.

Any financial arrangements between the Government of the Union of Soviet Socialist Republics on the one hand and the Government of Canada on the other in connexion with the supplies to be furnished by the Government of Canada in pursuance of the present protocol shall be the subject of a separate agreement to be concluded between the Government of Canada and the Government of the Union of Soviet Socialist Republics.

ARTICLE V

The list of supplies in the schedules annexed hereto shall be subject to reallocation between the three supplying countries as they may decide between themselves in order to meet strategic, supply, or shipping exigencies. They shall, too, be liable to variation to meet unforeseen developments in the war situation. If shipping losses, production failures, or the necessities of other operations render their fulfilment prohibitive, it may be necessary to reduce them. On the other hand, if conditions permit, the Governments of the United States, the United Kingdom and Canada, will be glad to review the schedules from time to time for the purpose of increasing the quantities to be provided and delivered.

In witness whereof the undersigned, duly authorised by their respective Governments, have signed the present Protocol.

Done in London in quadruplicate on the 19th day of October, 1943, in the English language.

For the Government of the United States
of America:
JOHN G. WINANT

For the Government of Great Britain
and Northern Ireland:
OLIVER LYTTTELTON
ALEXANDER CADOGAN

For the Government of Canada:
VINCENT MASSEY

For the Government of the Union of
Soviet Socialist Republics:
F. GOUSEV
D. BORISENKO

² *Ante*, p. 724.

UNITED STATES SCHEDULE OF SUPPLIES AND SHIPMENTS
FOR THE THIRD SOVIET PROTOCOL

The United States Government undertakes to make available for shipment during the protocol period to the Union of Soviet Socialist Republics a total of 5,100,000 short tons of stores, of which approximately 2,700,000 short tons will be for shipment in Soviet flag vessels and 2,400,000 short tons for shipment in United States flag vessels. The foregoing availability will be reduced to the extent that offerings of other parties to the protocol are carried in the shipping referred to hereinafter.

The United States will supply the shipping tonnage which, with the Soviet tonnage presently employed, will lift 225,000 short tons per month via the Pacific route, on the understanding that the turn-around is to be of 90 days' duration and that the United States will lend every assistance to the Union of Soviet Socialist Republics in order that this may be achieved, and on the further understanding that, should any untoward events close the Pacific route to the Union of Soviet Socialist Republics or restrict its use, United States tonnage transferred to the Soviet flag for employment on this route will be used on other available routes to the Union of Soviet Socialist Republics for lifting protocol supplies, for the shipment of which the United States is responsible.

The United States will undertake to lift by either the Northern route or the Persian Gulf route, whichever in the light of changing conditions proves from time to time to be more efficient, a total of 200,000 short tons a month, providing such capacity proves to be available to the United States. Furthermore, if future conditions permit, the United States agrees to increase this amount as the over-all circumstances justify.

The foregoing commitments as to shipping will include the movement of supplies selected from Canadian offerings and from United Kingdom offerings of wool and lead originating in Australia and New Zealand, and such supplies originating in North America, as, by agreement between the Governments of the United States and United Kingdom, are to continue to be carried in United States vessels, as well as shipments from such sources as may become necessary in meeting the commitments of the United States. All shipping commitments are subject to the provisions of Article II of this protocol.

The Government of the United States offers the following schedule of supplies, aggregating some 7,080,000 short tons, from which it will be necessary for the Soviet Government to select, as promptly as practicable, a program of particular supplies for dispatch which does not exceed the shipping limitations outlined above, *i.e.*, 5,100,000 short tons, exclusive of fly-away airplanes, to which may be added 500,000 short tons for stockpile and carry-over, or a total of 5,600,000 short tons. This program should include all cargo to be transported in the shipping referred to above from the United States, or from other sources, after the 1st July, 1943, including protocol and non-

protocol items on hand, on order or to be ordered. Protocol and non-protocol material delivered but not exported as of the 30th June, 1943, will be available for selection within the limitations as to tonnage.

In the execution of the program of supplies listed in the attached schedule, the Government of the United States will be guided by the selections of the Government of the Union of Soviet Socialist Republics as described in the document dated the 1st September, 1943, annexed to this preamble.

It is appreciated that reasonable stockpiles of stores must be maintained in the United States so that the Union of Soviet Socialist Republics can, from month to month, select cargo for shipment that is most needed to meet the ever-changing requirements of war. However, the United States reserves the right to limit the size of such individual stockpiles, either by control of production or diversion of product, or both, when in its judgment such action is in the best interest of the common cause. In taking such action, due consideration will be given to the expressed needs of the Union of Soviet Socialist Republics.

When production is curtailed or material is diverted, the arrearages in the various items involved will be given all possible consideration in conformity with future realistic shipping programs, Soviet desires, other urgent war requirements and reasonable production schedules.

The offerings made in the United States schedule of supplies are subject to specifications which shall be in accord with current United States' conservation and production practices and practicable and specific material scheduling.

The United States stands ready, through appropriate officials, to discuss with Soviet representatives in Washington all detailed questions pertaining to the schedule of stores and services and any reasonable adjustments that may be desired.

Above all, the United States desires again to assure the Union of Soviet Socialist Republics that it has a full understanding of the vital importance of the Soviet front and the urgent necessities of moving supplies to it in the highest possible volume and in the shortest space of time.

It is desired to emphasize that the Government of the United States is not only willing but is very anxious to render the assistance outlined. The Soviet Government may rest assured that the provisions described in Articles II and V of this protocol will not be invoked by the Government of the United States unless developments definitely require it.

Annex to Preamble: United States Schedule of Supplies and Shipments

MEMORANDUM

Below is the answer of the Soviet Government to the proposals made by the Government of the United States regarding the Third Protocol:

“In view of the fact that the United States Government does not agree to make available shipping space trading under the United States flag in excess of 2,400,000 short tons for United States shipment to the Soviet Union under the Third Protocol through the Atlantic Ocean, the Soviet Government, with the purpose of reconciling of the amount of deliveries with available shipping facilities, agrees to decrease the program of supplies under the Third Protocol proposed by the United States Government from 7,080,000 tons to 5,600,000 tons, including 500,000 tons of stocks and carry-overs, by decreasing the quantities of the following items (in short tons) :

(a) Wheat and flour, 700,000 tons (including deliveries from Canada) instead of 1,680,000 tons.

(b) Concentrated foods, 177,000 tons instead of 252,000 tons.

(c) Ferrous metals, 500,000 tons instead of 710,000 tons.

(d) Petroleum products, 360,000 tons instead of 565,000 tons.

(e) Various chemicals, 9,200 tons instead of 18,800 tons.

At the same time the Soviet Government agrees to the above-mentioned decrease in the deliveries of the petroleum products on the provision that the Government of Great Britain will continue deliveries of aviation gasoline to the U.S.S.R. from Persia at the rate of 10,000 tons per month during the Third Protocol period, and the United States Government will replace these deliveries to England out of its own supplies without decreasing the above-mentioned amount of petroleum product deliveries to the U.S.S.R. from the United States of America.

The Government of the U.S.S.R., agreeing to decrease the program of deliveries under the Third Protocol, is relying upon the assurance of the United States Government that the United States agrees to increase the aforementioned amount of deliveries if conditions permit and circumstances justify it in future.”

EMBASSY OF THE UNION OF SOVIET SOCIALIST REPUBLICS,
Washington, 1st September, 1943.

Armament and Military Equipment

(All Weights in Short Tons)

(Except as otherwise specified, amounts are to be provided in equal monthly instalments as nearly as practicable. The amounts offered below indicate all quantities to be made available during the Third Protocol period in addition to those quantities made available but unshipped on the 30th June, 1943.)

Airplanes.

Requested: 8,160.

Airplanes:

6,000 pursuit planes, “Aircobra.”

1,200 light bombers, Type A-20.

600 medium bombers, Type B-25.

360 transport planes, Type C-46; C-47.

Spare Parts:

Spare engines } 30 percent of number of planes (for two-motor planes—
 Spare propellers } 30 percent per motor or 60 percent per two-motor plane).
 Airplane spare parts: 20 percent of value of plane.
 Engine spare parts: 15 percent of value of plane.
 Propeller spare parts: 15 percent of value of propeller.

Offered: 3,462. (Supplied with equipment and ammunition in accordance with United States standards.)

Airplanes:

1,200 fighters, 1-engine, Type P-39.
 600 fighters, 1-engine, Type P-40 N in first six months.
 1,200 light bombers, Type A-20.
 222 medium bombers, Type B-25.
 150 in first six months.
 72 in second six months.

240 medium transport planes, Type C-47.

The schedule of supply of aircraft during the second half of the Protocol Period will be reviewed in November, 1943.

In addition, in accordance with a previous agreement made with the United Kingdom, involving interchange of certain airplanes, the United States is to supply for the United Kingdom's account 150 P-39 or P-63 fighter airplanes per month.

Spare Parts:

To be supplied in accordance with United States standards which are equal to or in excess of amount requested. (Joint Aircraft Committee Case 1850, Revision B.)

Tanks.

Requested: None.

Offered: 2,000 medium tanks, M4A2, with ammunition and spare parts. Also 1,000 additional tanks to be placed in production for delivery the 1st July, 1944, to the 31st December, 1944.

Trucks.

Requested: 144,000.

Spare parts, 20 percent of value of trucks.

Offered: 132,000.

Delivery:

10,000 for each of first six months.

12,000 for each of second six months.

Trucks to be supplied with spare parts according to United States standards, which are in excess of amount requested.

Scout Cars (Jeeps).

Requested: 24,000.

Spare parts at 20 percent of value of a jeep.

Offered: 24,000 ¼-ton 4 x 4 trucks.

Spare parts according to United States Standards, which are in excess of amount requested.

Additional items offered estimated to be undelivered on the 30th June, 1943, under Second Protocol: 4,500 Scout Cars M3A1. Shipping Weight: 31,050.

Prime Movers for Artillery.

Requested: 3,000.

1,680 tractors, medium.

720 tractors, heavy.

600 armoured half-tracks.

Spare parts, 20 percent of value of item.

Offered: 3,000.

1,680 tractors, medium M1.

720 tractors, heavy M1.

600 cars half-track M9. (Supplied with equipment and ammunition in accordance with United States Standards.)

Spare parts in accordance with United States Standards, which are in excess of amount requested.

Motorcycles.

Requested: 12,000.

Spare parts, 20 percent of value of motorcycle.

Offered: 12,000.

Spare parts in accordance with United States Standards, which are in excess of amount requested.

Powder.

Requested: 67,200 tons.

Offered: 72,700 tons.

Delivery:

5,600 tons in first month.

6,100 tons in each of remaining months.

Toluol.

Requested: 40,320 tons.

Offered: 40,320 tons.

Delivery:

6,720 tons in first quarter.

11,200 tons in each of last three quarters.

T.N.T.

Requested: 26,880 tons.

Offered: 26,880 tons.

Radio Stations, Radio Locators.

Requested: 15,700 units and other radio equipment.

Offered: 14,010 units and other radio equipment.

In addition, 430 units estimated to be undelivered on the 30th June, 1943, under Second Protocol.

Breakdown.

A.—Radio Stations, Output more than 1 kw.

Requested: 60.

Offered: 61.

Delivery:

1—50-kw. short-wave station in last quarter.

20—10 to 15 kw. transmitting and receiving sets.

10 in each of last 2 quarters.

39—2 to 3 kw. transmitting and receiving sets.

9 in second quarter.

15 in each of last two quarters.

1—RCA ET4331 in second quarter.

B.—Radio Stations, Output less than 1 kw.

Requested: 12,000.

Offered: 11,800.

Delivery:

1,000—SCR-299:

350 in first 6 months.

650 in second 6 months.

4,500—SCR-284:

2,300—set 19 British in first 6 months.

4,000—Pilot V-100:

3,000 in first 6 months.

1,000 in second 6 months.

Within the total offering of 11,800, the U.S.S.R. may select the whole or part of the following items as substitutes for those listed above:

95 SCR-177B:

Delivery:

40 in first quarter.

55 in second quarter.

560 SCR-274:

Delivery:

400 in first quarter.

160 in second quarter.

400 SCR-511:

Delivery:

150 in first quarter.

250 in second quarter.

4,800 SCR-610:

Delivery:

2,400 in each of first two quarters.

C.—Radio Receivers.

Requested: 2,000.

Offered: 2,000.

Delivery:

500 in second quarter.

750 in each of last two quarters.

Additional items offered estimated to be undelivered on the 30th June, 1943, under Second Protocol: 430.

Delivery:

20 Hallicrafter in second quarter.

10 RME-43 receivers in second quarter.

200 Bendix transmitters 2A-12B in first quarter.

200 Bendix receivers in third quarter.

D.—Aircraft Radio Locators.

Requested: 500.

Offered: (Under consideration).

E.—Ground Radio Locators.

Requested: 240.

Offered: (Under consideration).

F.—Radio Altimeters.

Requested: 500.

Offered: (Under consideration).

G.—Radio Beacons.

Requested: 250.

Offered: (Under consideration).

H.—Radio Direction-Finding Sets.

Requested: 150.

Offered: 150 SCR-551.

Delivery:

50 in each of last three quarters.

I.—Radio Tubes.

Requested: 2,400,000.

Offered: 2,400,000.

Delivery:

450,000 Metal Tubes in each of first two quarters.

475,000 Metal Tubes in each of second two quarters.

137,500 Glass Tubes in each quarter.

J.—Radio Measuring Equipment and Radio Parts.

Requested: \$3,000,000.

Offered: \$3,000,000.

Field Telephones.

Requested: 100,000 Units.

Offered: 100,000 Units EE-8A.

Teletype Apparatus.

Requested: 500 Units.

Offered: None.

Field Telephone and Telegraph Cables.

Requested: 186,000 miles.

Offered: 186,000 miles (Field Telephone wire, type 110-B).

Delivery:

75,000 miles in each of first two quarters.

18,000 miles in each of second two quarters.

Field Battery Charging Stations.

Requested: 4,000 Units.

Offered: 4,000 1½-kw. stations.

Delivery:

1,500 in each of first two quarters.

500 in each of second two quarters.

Submarine Cable.

Requested: 1,500 km.

Offered: 600 km.

Marine Cable.

Requested: 1,200 km.

Offered: 1,200 km.

Quartermaster Goods

Sole Leather.

Requested: 20,160 tons.

Offered: 18,000 tons.

Army Boots.

Requested: 3,600,000 pairs.

Offered: 3,600,000 pairs.

Woollen Cloth.

Requested: 18,000,000 yards.

Offered: 18,000,000 yards.

Cotton Cloth.

Requested: 25,000,000 yards.

Offered: 25,000,000 yards.

Additional offer of 1,045,000 yards estimated to be undelivered on the 30th June, 1943,
under Second Protocol.

Tarpauline.

Requested: 3,000,000 yards.

Offered: 3,000,000 yards.

Webbing.

Requested: 6,000,000 yards.

Offered: 6,000,000 yards.

Additional offer of 6,000,000 yards estimated to be undelivered on the 30th June, 1943,
under Second Protocol.

Medical Supplies

Medical Supplies.

Requested: \$12,000,000.

Offered: \$12,000,000.

Locomotives and Flat Cars

Locomotives.

Requested: 2,000 to 3,000.

Offered: 500 Minimum.

(Up to 700, if possible.)

Delivery:

To begin in third quarter.

Railroad Flat Cars.

Requested: 10,000.

Offered: 10,000.

Delivery:

2,400 in second quarter.

3,800 in each of last two quarters.

Naval Stores

(Except as otherwise specified, amounts are to be provided in equal monthly installments as nearly as practicable.)

(Quantities offered are in addition to prior protocol commitments to U.S.S.R. undelivered on the 30th June, 1943. See page 798.)

Minesweepers.

Requested: 22.

Offered: None.

(See additional offers below.)

Submarine Chasers (110 feet).

Requested: 12.

Offered: None.

(12 are being produced on non-protocol Soviet Requisition, with delivery scheduled for the last quarter of 1943.)

Sea-Going Tugs.

Requested: 20.

Offered: None.

(15 are being produced on non-protocol Soviet Requisition for export after 30th June, 1943.)

5"/38 Caliber Double Purpose Deck Guns.

Requested: 110.

Offered: None.

(It is estimated that 65 of 150 being produced under non-protocol Soviet Requisition will remain undelivered on 30th June, 1943.)

3"/50 Caliber Double Purpose Deck Guns.

Requested: 200.

Offered: 200.

Delivery second 6 months.

20-mm Oerlikon Guns.

Requested: 500.

Offered: 500.

Delivery in second 6 months.

50 Caliber Twin Machine Guns.

Requested: 900.

Offered: 900, together with ammunition according to United States standards.

Delivery:

150 in each of first 2 quarters.

300 in each of last 2 quarters.

5"/38 Caliber Ammunition.

Requested: 61,600 Rds.

Offered: None.

(Ammunition is being furnished for 150 guns being produced under non-protocol Soviet Requisition.)

3"/50 Caliber Ammunition.

Requested: 199,000 Rds.

Offered: 199,000 Rds.

20-mm Ammunition.

Requested: 2,500,000 Rds.

Offered: 2,500,000 Rds.

Marine Engines and Generators.

Requested: 2,562.

Offered: 606.

(See additional offers below.)

Breakdown.**A.—Marine Diesel Engines 1,600 h.p.**

Requested: 12 Units.

Offered: 6 Units.

(4 are to be produced on non-protocol Soviet Requisition for export after 30th June, 1943.)

B.—Marine Diesel Engines 1,200 h.p.

Requested: 100 Units.

Offered: 50 Units.

Delivery in second 6 months.

C.—Marine Diesel Engines 30–100 h.p.

Requested: 350 Units.

Offered: 200 Units.

Delivery in second 6 months.

(500 are to be produced on non-protocol Soviet Requisition for export after 30th June, 1943.)

(See additional offers below.)

D.—“Packard” Gas Engines 1,200 h.p.

Requested: 400 Units.

Offered: None.

(500 are to be produced on non-protocol Soviet Requisition for export after the 30th June, 1943.)

E.—Marine Wooden Gas Engines 30–50 h.p., Complete With Gas Products.

Requested: 800 sets.

Offered: None.

(Experimental model being produced under non-protocol Soviet Requisition.)

F.—Diesel Generators and Diesel Generator Compressors from 9 to 120 kw.

Requested: 600 Units.

Offered: 50 Units.

(Maximum of 15 to be over 100 kw. Capacity.)

(200 are to be produced on non-protocol Soviet Requisition for export after the 30th June, 1943.)

(See additional offers below.)

G.—Generators—1.5 to 4 kw., Diesel or Gasoline.

Requested: 300 Units.

Offered: 300 Units (Gasoline) (Commercial types).

Salvage Equipment.

Requested: 3,071 Units.

Offered: 805 Units.

(See additional offers below.)

Breakdown.**A.—Salvage Stations.**

Requested: 256 Units.

Offered: 40 Units.

(Depth not exceeding 200 feet; re-compression chambers excluded.)

Delivery, second 6 months.

(43 are to be produced on non-protocol Soviet Requisition for export after 30th June, 1943.)

B.—Portable Air Compressors, Complete With Engines.

Requested: 180 Units.

Offered: 60 Units.

Delivery, 10 each month in second 6 months.

- C.—Pontoons (Capacity 5 to 200 Tons).
 Requested: 600.
 Offered: None.
 (Construction in U.S.S.R. recommended because of difficulties of export due to size and weight.)
- D.—Portable Water Pumps, Complete With Engines.
 Requested: 1,000 Units.
 Offered: 425 Units.
 (3 to 10-inch pumps.)
 Delivery in second 6 months.
- E.—Underwater Electric Water Pumps.
 Requested: 100 Units.
 Offered: 100 Units.
 (Capacity not to exceed 200 G.P.M.)
 Delivery in May and June 1944.
- F.—Electric Welding and Cutting Apparatus.
 Requested: 120 Sets.
 Offered: 60 Sets.
 Delivery, 10 Sets each month in second 6 months.
- G.—Electric and Pneumatic Underwater Tools.
 Requested: 400 Sets
 Offered: 60 Sets.
 (Pneumatic.)
 Delivery, 10 Sets each month in second 6 months.
- H.—Portable Electric Stations Underwater Lighting.
 Requested: 240 Sets.
 Offered: 60 Sets.
 (5 kw. Generator and 5 Underwater Lights.)
 Delivery, 10 Sets each month in second 6 months.
- I.—Gas Cutting Apparatus.
 Requested: 120.
 Offered: None.
 (Same as item F above.)
- J.—Metal Detectors.
 Requested: 55.
 Offered: None.
- Schooners, Barges for Oil and Dry Cargo, and Tugs.
 Requested: 180.
 Offered: None.
- Breakdown.
- A. For Caspian Sea (To be delivered in fabricated state for assembly on the coast of the Caspian Sea).
1. Steel seagoing standard tugs, with draft 10-11 feet, power capacity 900-1,000 H.P.
 Requested: 7.
 Offered: None.
 2. Steel self-propelled seagoing standard barges for oil, with draft not exceeding 12 feet, total cargo capacity 42,000 tons, cargo capacity of about 1,900 tons each.
 Requested: 22.
 Offered: None.
 3. Steel seagoing standard barges for dry cargo, with draft not exceeding 11 feet, total cargo capacity of 38,000 tons, cargo capacity of about 1,900 tons each.
 Requested: 20.
 Offered: None.

B. For Far East (To be delivered fully assembled).

1. Steel seagoing standard tugs, with draft 15–16 feet, power capacity 900–1,000 H.P.
Requested: 3.
Offered: None.
2. Steel self-propelled seagoing standard barges for oil, with draft 15–16 feet, total cargo capacity of 6,000 tons.
Requested: 3.
Offered: None.
3. Steel self-propelled seagoing standard barges for dry cargo, with draft 15–16 feet, total cargo capacity of 10,000 tons.
Requested: 5.
Offered: None.
4. Wooden self-propelled seagoing standard schooners for dry cargo, with draft 15–16 feet, total cargo capacity of 120,000 tons, cargo capacity of about 1,000 tons each.
Requested: 120.
Offered: None.

Electrical Equipment.

Requested: 1,965 Units and other electrical material.
Offered: 1,040 Units and other electrical material.

Breakdown.

- A.—Generators with Controllers, 1.5 to 25 kw.
Requested: 500.
Offered: 295.
(Not more than 20 per cent. to be of greater capacity than 15 kw.)
- B.—Generators with Controllers, 25 to 100 kw.
Requested: 250.
Offered: 100.
(Not more than 25 per cent. to be of 75 kw. capacity or greater.)
- C.—Motor Generators with Controllers, 1 to 10 kw.
Requested: 100.
Offered: 100.
- D.—Motor Generators with Controllers, 10 to 75 kw.
Requested: 25.
Offered: 25.
(Not more than 10 units to be of 50 kw. capacity or greater.)
- E.—Electric Motor with Controllers, 5 to 25 h.p.
Requested: 1,000.
Offered: 500.
(Not more than 20 per cent. to be of 15 h.p. capacity or greater.)
- F.—Electric Motors with Controllers, 25 to 100 h.p.
Requested: 25.
Offered: 20.
(Not more than 25 per cent. to be of 75 h.p. or greater.)
- G.—Storage Batteries for submarines.
Requested: 65.
Offered: 0.
(See additional offers below.)
(In addition 65 are to be produced on non-protocol Soviet Requisition)
- H.—Electric Instruments and Fixtures.
Requested: \$1,000,000.
Offered: \$100,000.

Additional Offer of Estimated Undelivered Balances as of 30th June, 1943,
in Second Protocol

(Offerings to be reduced by the amounts that are made available prior to 30th June, 1943.)

<i>Item</i>	<i>Number</i>
1. Minesweepers -----	10
2. Marine Diesel Engines and Spares (170-1,100 h.p.)-----	254
3. Marine Diesel Engines and Spares (30-100 h.p.)-----	263
4. Marine Diesel Generators (25-300 kw.)-----	800
5. Marine Gasoline Engines and Spares-----	90
6. Marine Pumps and Spares (95-230 V)-----	257
7. Electric Motors and Spares (110-220 V)-----	1, 210
8. Turbo Generators (230 V)-----	10
9. Storage Batteries for Submarines-----	15
10. Electric Ventilating Sets-----	649
11. Scripps Engines-----	66
12. Air Tanks-----	15
13. Rotary and Change-over Switches-----	3, 000
14. Potassium Tetraoxide-----	41, 100 lbs.
15. Turbo Ventilators for Engine Room-----	8
16. Windlasses with motors-----	5
17. Auxiliary Equipment for Ships-----	10
18. Vertical Steam Boiler-----	10
19. Watertight Junction Boxes-----	240
20. Jetting Equipment for Salvage Operations-----	20
21. Submarine Rescue Chamber-----	1
22. Towing Winches (220 V)-----	10

Shipping Weight of Non-Protocol Items Being Procured on Soviet
Requisitions

(All Weights in Short Tons)

Miscellaneous Naval Stores. Shipping Weight: 17,100.

Metals, Chemicals and Other Products

(All Weights in Short Tons)

(Except as otherwise specified, amounts to be provided in equal monthly installments as nearly as practicable.)

(The amounts offered below include quantities to be delivered during the Third Protocol period against new orders and old orders undelivered on 30th June, 1943.)

Duraluminum and Aluminum Ingots.

Requested: 80,640 tons.

Offered: 35,760 tons.

18,000 tons to be supplied by other parties to the Protocol.

(Subject to revision upwards as circumstances permit.)

Magnesium Metal.

Requested: 4,032 tons.

Offered: 4,032 tons.

Nickel.

Requested: 9,408 tons.

Offered: 6,600 tons.

3,600 tons in pig nickel.

600 tons in monel scrap.

2,400 tons maximum contained in steel and various non-ferrous products.

1,800 tons in pig nickel to be supplied by other parties to the Protocol.

Molybdenum Concentrates.

Requested: 4,480 tons.

Offered: 4,000 tons.

Copper Electrolytic.

Requested: 134,400 tons.

Offered: 134,400 tons maximum.

*Tons,
Maximum*

Copper in copper base alloys..... 75,264

Copper in copper brass mill products..... 15,000

Copper in copper cable and wire..... 20,000

Copper in submarine cable..... 50

Copper in power and related cable..... 21,395

Copper in marine cable..... 465

Zinc (Slabs).

Requested: 13,440 tons.

Offered: 13,440 tons.

Cobalt.

Requested: 161 tons.

Offered: 80.5 tons.

To be provided in first 6 months.

Other parties to the Protocol will supply the balance of the request.

Cadmium.

Requested: 224 tons.

Offered: To be supplied by other parties to the Protocol.

Copper Base Alloys (Brass and Bronze).

Requested: 107,520 tons.

Offered: 107,520 tons.

Copper Goods and Tubes (Copper brass mill).

Requested: 16,128 tons.

Offered: 15,000 tons.

Copper Cable and Wire.

Requested: 33,600 tons (Uninsulated copper wire).

Offered: 20,000 tons.

Ferro-Alloys.

Requested: 21,504 tons.

Offered: 14,784 tons.

Ferrosilicon 9,408 tons.

Ferrochrome 5,376 tons.

Other parties to the Protocol will supply the balance of the request. United States

supplies to include existing stocks available but unshipped on the 30th June, 1943.

Nichrome Wire.

Requested: 538 tons.

Offered 538 tons.

Special Alloys Wire.

Requested: 269 tons.

Offered: 269 tons.

(Other than steel and alloys.)

(Subject to specifications as to types, quantities and delivery schedules.)

Steel and Steel Products.

Requested: 849,730 tons.

Offered: ³ 710,000 tons.

Breakdown.

A.—Carbon Steel.

Requested: 735,127 tons.

Offered: 595,397 tons.

470,270 tons, including rails and accessories and Arctic and fishing programs.

(Subject to the condition that present steel stocks held on U.S.S.R. account in the United States will be reduced to 250,000 tons and subject to the further condition that adequate production facilities are available.)

11,120 tons copper clad strip.

6,807 tons plain carbon tool steel and drill rod.

11,200 tons bullet core, plain carbon.

60,000 tons tin plate.

36,000 tons miscellaneous carbon steel, including nails, bolts, nuts and rivets.

B.—Alloy Steel.

Requested: 114,603 tons.

Offered: ³ 114,603 tons.

141 tons drill rods.

96 tons high speed.

45 tons alloy.

10,674 tons tool steel.

4,480 tons high speed.

672 tons alloy X12.

672 tons alloy X12M.

3,382 tons other alloys.

1,468 tons die blocks.

10,898 tons cold drawn alloy bars.

1,120 tons steel, grade 40XC.

1,120 tons steel, grade 20X3.

1,008 tons steel, grade 4134.

560 tons steel, grade 27CG.

1,680 tons steel, grade SAE5140.

930 tons steel, grade SAE4140.

4,480 tons steel, grade SAE52100.

67,569 tons hot rolled aircraft bars.

515 tons steel, grade EJ160.

1,344 tons steel, grade EJ161.

2,688 tons steel, grade 30CX10MA:

11,200 tons steel, grade 52100.

3,360 tons steel, grade SAE9260.

5,600 tons steel, grade 40XC.

8,960 tons steel, grade SAE5140.

8,960 tons steel, grade 20X3.

15,680 tons steel, grade 38XMJUA.

302 tons steel, grade CXB.

3,360 tons steel, grade EJ69 or SAE5700.

5,600 tons steel, grade SAE5130.

³ Plus undelivered balances as of 30th June 1943, of stainless tubing and hot rolled ball bearing tubing. [Footnote in original.]

2,671 tons stainless sheets.
 336 tons stainless strip.
 756 tons stainless bars.
 6,563 tons ball wire.
 470 tons steel, grade BBX6.
 370 tons steel, grade BBX9.
 504 tons steel, grade BBX15.
 1,344 tons chrome vanadium wire (ASTM232).
 1,344 tons chrome moly wire (SAE4140).
 1,747 tons stainless wire.
 748 tons alloy wire (silicon manganese).
 14,995 tons tubing.
 * 994 tons stainless tubing.
 8,625 tons 4-6 per cent. chrome tubing.
 * 5,376 tons hot rolled ball bearing tubing.

Other Materials, Including Steel Chains, Anchors, Screws, Other Metals and Their Products, and Nitrocellulose Base.

Requested: \$10,000,000.

Offered: \$5,000,000. (Subject to specifications as to types, quantities and delivery schedules.)
 (Subject to revision upwards if circumstances permit.)

Petroleum Products.

Requested: 564,480 tons.

(120,000 tons of which to be delivered from United Kingdom stocks in Iran and to be replaced to United Kingdom by United States.)

Offered: 564,480 tons.

(120,000 tons of which to be delivered for United States account from United Kingdom stocks at Abadan and to be replaced to United Kingdom by United States.)

(Dependent upon ability to provide type of product requested.)

Phenol.

Requested: 13,440 tons.

Offered: 12,000 tons.

Ethylene Glycol.

Requested: 3,360 tons.

Offered: 3,360 tons.

Methanol.

Requested: 6,720 tons.

Offered: 6,720 tons.

Urotropine.

Requested: 6,720 tons.

Offered: 6,720 tons.

Glycerine.

Requested: 6,720 tons.

Offered: 6,720 tons.

3,360 in first six months.

3,360 tentative in second six months.

Caustic Soda.

Requested: 40,320 tons.

Offered: 40,320 tons.

Ethyl Alcohol.

Requested: 107,520 tons.

Offered: 107,520 tons.

Acetone.

Requested: 6,720 tons.

Offered: 6,720 tons.

Other Chemicals.

Requested: 12,096 tons.

Offered: 12,096 tons.

(Other than items specifically mentioned and subject to specifications as to types, quantities, and delivery schedules.)

Tires, Tubes and other Rubber Products (containing 36,000 tons of rubber).

Requested: 40,320 tons.

Offered: 40,320 tons (rubber or its equivalent).

(In addition to rubber and rubber products supplied with planes and other military vehicles.)

20,160 tons in first six months.

20,160 tons tentative in second six months.

Parchment Paper.

Requested: 1,680 tons.

Offered: 1,680 tons.

Condensor Paper.

Requested: 146 tons.

Offered: 146 tons.

Cigarette Paper.

Requested: 336 tons.

Offered: 336 tons.

Sheet Fiber.

Requested: 1,680 tons.

Offered: 1,000 tons.

Metallic Cloth and Screen.

Requested: 200,000 square meters.

Offered: \$1,000,000.

Industrial Equipment

(All Weights in Short Tons.)

Requests of the U.S.S.R. for industrial equipment, as listed below, total approximately \$700,000,000. These requests are in excess of quantities of previously approved orders remaining undelivered from factories on the 30th June, 1943, estimated at \$373,000,000. The amounts "offered" below, totalling approximately \$454,000,000 represent the total amounts of both old and new orders to be delivered from factories during the Third Protocol period providing new orders placed by the U.S.S.R. contain specifications, delivery schedules, and supplies acceptable to the United States.

In addition to the offerings listed below there will remain available to the U.S.S.R. delivered from factories but unexported as of the 30th June, 1943, equipment estimated at \$78,000,000.

In order to insure the constant flow of industrial equipment required for the U.S.S.R. war program, the United States will consider the approval of orders totaling not in excess of \$300,000,000 for delivery after the 30th June, 1944. These orders will be considered in addition to the quantities specified for delivery during the Third Protocol period provided that lists of all equip-

ment and projects be submitted to the United States for review and consideration and provided that, after review, it is found possible to incorporate such equipment and projects into United States production schedules.

Hard Alloys, Cutting and Measuring Tools.

Requested: \$21,000,000.

\$3,000,000 Hard Alloys and Cutting Tools.

\$18,000,000 Cutting and Measuring Tools.

Offered: \$21,000,000.

\$3,000,000 Cemented Carbide Tips and Blanks.

\$2,444,000 New Orders.

\$556,000 Old Orders undelivered on the 30th June, 1943. (Estimated.)

\$15,000,000 Cutting Tools.

\$13,200,000 New Orders.

\$1,800,000 Old Orders undelivered on the 30th June, 1943. (Estimated.)

\$3,000,000 Measuring Tools.

\$1,700,000 New Orders.

\$1,300,000 Old Orders undelivered on the 30th June, 1943. (Estimated.)

Abrasives.

Requested: 6,136 tons.

Offered: 4,000 tons Abrasive Grain.

3,600 tons New Orders.

400 tons Old Orders undelivered on the 30th June, 1943. (Estimated.)

\$4,000,000 Abrasive Products.

\$2,300,000 New Orders.

\$1,700,000 Old Orders undelivered on the 30th June, 1943: (Estimated.)

Graphite Electrodes and Other Graphite Products.

Requested: 7,448 tons.

Offered: 8,568 tons.

5,757 tons Graphite Electrodes New Orders.

1,691 tons other Graphite Goods.

1,409 tons New Orders (subject to specifications as to types, quantities and delivery schedules).

282 tons Old Orders undelivered on the 30th June, 1943. (Estimated.)

1,120 tons Graphite Powder New Orders.

Bearings, Balls and Rolls.

Requested: 33,000,000 pieces.

5,000,000 Bearings.

28,000,000 Balls and Rolls.

Offered: \$15,000,000 anti-friction bearings, including balls and rolls, to be supplied from Old Orders undelivered on the 30th June, 1943.

Machine Tools.

Requested: \$228,621,550 (24,000 units).

Offered: \$120,000,000.

\$10,000,000 New Orders.

\$110,000,000 Old Orders undelivered on the 30th June, 1943. (Estimated.)

Presses, Forging and Rolling Mill Equipment.

Requested: \$82,000,000.

Offered: \$48,000,000.

\$16,000,000 Rolling Mills and Equipment.

\$11,000,000 New Orders, production of which will begin in 3rd quarter.

\$5,000,000 Old Orders undelivered on 30th June, 1943. (Estimated.)

\$30,000,000 Presses, Forges, Hammers and Related Equipment to be supplied from Old Orders undelivered on 30th June, 1943. (Estimated.)

\$2,000,000 Wire Drawing Equipment.

\$1,000,000 New Orders.

\$1,000,000 Old Orders undelivered on 30th June, 1943. (Estimated.)

Electric Furnaces.

Requested: \$12,000,000 (600 units).

Offered: \$12,000,000.

\$10,000,000 New Orders.

\$2,000,000 Old Orders undelivered on 30th June, 1943. (Estimated.)

Industrial Plants and Desalting Units.

Requested: 12 plants and desalting units.

Offered: As listed below.

Breakdown.

I. Synthetic Rubber and Alcohol Plants.

Requested: 6.

1 Butadiene Plant 20,000-ton capacity.

1 Styrene Plant with 7,000-ton annual capacity.

1 Buna S Plant with 25,000-ton annual capacity.

1 Neoprene Plant with 10,000-ton annual capacity.

1 Butyl Rubber Plant with 3,000-ton annual capacity.

1 Synthetic Alcohol Plant with 20,000-ton annual capacity.

Offered: None.

(To be considered at a later date.)

II. Cord and Chafer Plant.

Requested: 1 with daily capacity of 47 tons of cord and 8 tons of chafer.

Offered: None.

III. Toluene Plant.

Requested: 1 with annual capacity of 20,000-30,000 tons.

Offered: None.

IV. Catalytic Cracking Units.

Requested: 2, each with annual capacity of 100,000 tons.

Offered: Under Study.

V. Catalyst Plant.

Requested: 1 to produce catalyst for Houdry Units.

Offered: Under Study.

VI. Petreco Desalting Units.

Requested: Sufficient for lubrication oil plant and refinery plants ordered in 1942.

Offered: Under Study.

VII. Phenol Plant.

Requested: 1.

Offered: None.

Airplane Propeller Plant.

Requested: 1 with annual capacity of 75,000 hollow-blade propellers.

Offered: Under Study.

Various Industrial Equipment.

Requested: \$132,000,000.

Offered \$132,000,000.

\$12,500,000 Excavators to be supplied from old orders undelivered the 30th June, 1943.

\$2,000,000 Truck and Tractor Cranes.

\$20,000,000 other Cranes, including portal, locomotive, floating, overhead and gantry cranes, trolleys for overhead cranes, monorail systems, &c.

Supply of the above two offerings for cranes will consist of \$7,600,000 new orders and \$14,400,000 old orders undelivered on the 30th June, 1943. (Estimated.)

\$9,000,000 Compressors, gas blowers, exhausters, and fans.

\$3,500,000 New Orders.

\$5,500,000 Old Orders undelivered on the 30th June, 1943. (Estimated.)

\$8,000,000 Pumps.

\$4,000,000 New Orders.

\$4,000,000 Old Orders undelivered on the 30th June, 1943. (Estimated.)

\$10,000,000 Mining Equipment, Ore Dressing, Handling and Transporting Equipment to be supplied from old orders undelivered on the 30th June, 1943. (Estimated.)

\$10,000,000 Equipment for Blast, Hearth and Coke Furnaces.

\$2,700,000 New Orders.

\$7,300,000 Old Orders undelivered on the 30th June, 1943. (Estimated.)

\$4,000,000 Welding Equipment.

\$1,200,000 New Orders.

\$2,800,000 Old Orders undelivered on the 30th June, 1943. (Estimated.)

\$3,000,000 Valves and Fittings.

\$200,000 New Orders.

\$2,800,000 Old Orders undelivered on the 30th June, 1943. (Estimated.)

\$12,000,000 Automatic Block Signal System from old orders undelivered on the 30th June, 1943. (Offering represents 3,000 km. Priority ratings to be assigned will be equivalent to those granted similar equipment being supplied domestic consumers.)

\$36,500,000 Auxiliary Industrial Equipment to be supplied from Old Orders undelivered on the 30th June, 1943. In addition to the above offer for auxiliary industrial equipment, there will remain undelivered on old orders on the 30th June, 1943, quantities estimated at \$64,000,000. It is requested that these orders be examined carefully in order that those no longer urgently needed may be cancelled. Such orders as are uncanceled will be allowed to remain in production under present priority ratings and will be made available when completed.

Power Equipment, Including Equipment and Boilers for Existing Plants.

Requested: \$135,000,000.

Offered: \$75,000,000.

\$57,000,000 New Orders.

\$18,000,000 Old Orders undelivered on the 30th June, 1943. (Estimated.)

Electric Power Cable.

Requested: 12,000 km.

Offered: 12,000 km.

Control Instruments and Testing Machines.

(Precision Measuring and Testing Machines and Instruments.)

Requested: \$2,000,000.

Offered: \$1,700,000.

\$340,000 New Orders.

\$860,000 Old Orders undelivered on the 30th June, 1943. (Estimated.)

Emergency Equipment.

Requested: \$60,000,000.

Offered: \$25,000,000 urgent emergency equipment.

Stockpiles

(All Weights in Short Tons.)

It is estimated that there will remain unexported as of the 30th June, 1943, the following:

Metals, Chemicals and Other Products.

Stockpile: 617,000 tons. Shipping Weight: 662,000.

Industrial Equipment.

Stockpile: 107,000 tons. Shipping Weight: 108,000.

Food Products

(Equal Monthly Installments.)

(All Weights in Short Tons.)

(The amounts offered below include quantities to be delivered during the Third Protocol Period.)

Wheat, Flour, Cereals, Rice and Beans.

Requested: 1,680,000 tons.

Offered: ⁴ 1,180,600 tons. ⁴ 473,280 tons wheat.

293,440 tons flour.

179,200 tons cereals.

49,280 tons rice.

151,200 tons beans.

33,600 tons peas.

Sugar.

Requested: 436,800 tons.

Offered: 436,800 tons.

112,000 tons United States Mainland.

324,800 tons other sources.

The possibilities of supplying a larger proportion from the United States Mainland are being studied.

Canned Meats.

Requested: 470,400 tons.

Offered: 224,000 tons.

Meat Products (Cured and Smoked Meats).

Requested: 0.

Offered: 20,000 tons.

Animal Fats and Fat Cuts.

Requested: 246,400 tons.

Offered: 327,200 tons.

288,000 tons animal fats and fat cuts.

39,200 tons butter.

Vegetable Oil and Products, including Shortening and Margarine.

Requested: 280,000 tons.

Offered: 225,000 tons.

Concentrates.

Requested: 178,080 tons.

Offered: 252,000 tons.

17,920 tons dry skim milk.

8,960 tons dry whole milk.

39,200 tons dried eggs.

13,440 tons sweetened condensed milk.

28,000 tons dehydrated vegetables.

26,880 tons dehydrated soups and cereals.

89,600 tons soya products.

16,800 tons cheese.

5,600 tons tomato paste.

5,600 tons concentrated juices.

Soap.

Requested: 22,400 tons.

Offered: 11,200 tons.

⁴ Other parties to the protocol will supply the balance of the request. [Footnote in original.]

UNITED KINGDOM SCHEDULE OF SUPPLIES AND SHIPMENTS

The Government of the United Kingdom undertake, subject to the provisions of the Protocol and to the marginal comments in respect of particular items, to make available for despatch to the Government of the Union of Soviet Socialist Republics during the period the 1st July, 1943, to the 30th June, 1944, the supplies set out below.

The Government of the United Kingdom undertake, subject to the provisions of Article II of the Protocol, to provide the shipping tonnage necessary, with any Soviet tonnage which may be available, to lift the supplies set out below save that such undertaking will not apply to lead and wool originating in Australia and New Zealand, nor to supplies originating in North America, which, by agreement between the Governments of the United States and United Kingdom, are to continue to be carried in United States ships. These supplies will be despatched either to the Persian Gulf or to Soviet Northern ports, whichever, in the light of changing circumstances, proves from time to time to be more practicable. In the choice of routes for the despatch of particular supplies, regard will be had to the wishes of the Soviet Government so far as the factors mentioned in Article II of the Protocol permit.

Except where otherwise stated, the amounts offered include any outstanding balances of items agreed to be supplied under the Second Protocol which were not shipped or booked for shipment on a named vessel before the 1st July, 1943, as well as any quantities of such items which have been lost in transit to the Union of Soviet Socialist Republics before the 1st July, 1943, where agreement to replace such losses has not been communicated to the Soviet authorities before the said date.

It is appreciated that reasonable stockpiles of stores must be maintained, so that the Union of Soviet Socialist Republics can, as shipping opportunities occur, select cargo for shipment that is most needed to meet the ever changing requirements of war. However, the United Kingdom reserves the right to limit the size of such individual stockpiles either by control of production or diversion of product or both, when in its judgment such action is in the best interest of the common cause. In taking such action due consideration will be given to the expressed needs of the Union of Soviet Socialist Republics.

Programme of Supplies From the United Kingdom to the Union of Soviet Socialist Republics During the Period 1st July, 1943, to 30th June, 1944

(All weights in long tons unless otherwise stated)

Group I.—Armaments and Military Equipment

1. Aircraft.—For the first six months, 150 Airacobras and 50 Hurricanes a month. In the second six months 150 Airacobras or type P. 63 and 50 fighter aircraft of British type.

(The aircraft of American type will be supplied in accordance with agreements made with the Government of the United States involving an exchange of certain aircraft from United Kingdom production.)

2. Tanks.—1,000 tanks (Valentines). Maintenance spares for twelve months will be supplied both for tanks and their guns in accordance with a generous comprehensive spare parts schedule based upon experience of the normal replacement requirements of the parts concerned.
3. Propellant.—
 - (a) R.S. type—2,250 short tons during the first six months in addition to about 2,500 short tons which had not been shipped by the 1st July, 1943.
 - (b) W.M. 017—1,600 short tons which had not been shipped by the 1st July, together with such surplus as is subsequently manufactured while production is being brought to an end.
4. Aviation Spirit.—10,000 tons a month to be made available at Abadan in accordance with an agreement with the United States Government, whereby the latter will make a similar quantity available to the United Kingdom Government out of the amount of aviation spirit allocated by the United States Government to the Government of the U.S.S.R.

Group II.—Various Materials

1. Tin.—6,000 tons. (Less any amounts over 6,000 tons received by the U.S.S.R. from China.)
2. Lead.—12,000 tons from Australia.
3. High-speed steel.—60 tons subject to specification.
4. Cobalt.—72 tons in second six months.
5. Industrial diamonds.—2,400,000 dollars, subject to specification.
6. Rubber.—12,000 tons for first six months from Ceylon so long as that source is open, and in addition to any balance of supplies under Second Protocol not shipped from Ceylon before the 1st July, 1943. Subsequent supply to be considered.
- * 7. Jute.—36,000 tons to be provided in whole or in part as articles made of jute so far as manufacturing capacity in India permits production of the articles desired by the U.S.S.R.
8. Sisal.—6,000 tons for second half of 1943, of which whole or part may be taken in manufactured goods subject to specifications being agreed, including 1,720 long tons already agreed to be supplied, but excluding any part of 1,000 short tons of Mexican Henequin which is being supplied by the United States.
- * 9. Shellac.—2,400 tons.
10. Wool.—24,000 tons. On a "scoured" basis from various sources.
11. Graphite.—1,200 tons. Dependent upon conditions in Ceylon.
12. Cresol.—190 tons in the first six months, subject to acceptance of the specification offered.

* Dependent upon Indian conditions. [Footnote in original.]

Group III.—Industrial Equipment

	<i>Quantity.</i>	<i>Specifica- tion No.</i>	<i>Delivery Date.</i>
1. Machine Tools.....	3,000		
2. Steam-driven electric power units complete with boilers—			Items 2, 3, 4, 5, to be delivered by 31st March, 1945.
25,000 k. w.	67		
12,000 k. w.			
4,500 k. w.			
3. Small Stations—			Items 2, 3, 4, 5, to be delivered by 31st March, 1945.
100/500 k. w.	50 (Average 400 k.w.)		
4. Mobile Stations—			Items 2, 3, 4, 5, to be delivered by 31st March, 1945.
5,000 k. w.	6		
2,500 k. w.	20		
1,000 k. w.	10		
5. Turbo-alternators—			Items 2, 3, 4, 5, to be delivered by 31st March, 1945.
25,000 k. w.	2		
12,000 k. w.	2		
3,000 k. w.	2		
2,500 k. w.	5		
1,500 k. w.	5		
6. Steam Armature.....	75 per cent. in value of 7,650 units	183N, 184N 185N, 189N 196N, 197N 207N, 218N 258N	By November 1944. Delivery of the the remaining 25 per cent. will be con- sidered in six months' time.
7. Pumps.....	66 of which:		By June 1944. By February 1945. By October 1944. By November 1944. In accordance with agreement to be reached.
	12	250N	
	34	294N	
	8	“	
	12	“	
	Remaining units	206N, 212N 253N, 294N	
8. Compressors.....		199N, 211N 214N, 228N	Delivery in accord- ance with agree- ment to be reached.
9. Electrical Equipment—			By March 1945.
(a) Power transformers....	144	194N, 210N 251N, 256N	
(b) Current and Potential Transformers	529	210N, 215N 216N	By April/May 1944.

* One Station containing two 25,000 k.w. Turbo-alternators and five Stations each containing one 25,000 k.w. Turbo-alternator. [Footnote in original.]

	<i>Quantity.</i>	<i>Specifica- tion No.</i>	<i>Delivery Date.</i>
9. Electrical Equipment—Con.			
(c) Oil Circuit Breakers . . .	500 of which:	225N	
	100 against item 2		} By March 1945. Delivery in accordance with agreement to be reached.
	25 against item 3		
	75 against item 4		
	100 against item 5		
	125 against item 6		
	75 against item 1		
(d) Isolating Switches	1,000	227N	By March 1945.
(e) Storage Batteries	10	234N	By April/May 1944.
(f) Relays	1,000		} By March 1945.
(g) Metal-clad Switchgears	500	187N, 259N	
(h) Alternators	90 of which:	230N	
	5 against item 1		} By July 1944.
	5 against item 2		
	15 against item 3		
	15 against item 4		
	15 against item 5		
	25 against item 1		} By December 1944.
	10 against item 2		
(i) Heavy Current Generators.	40 (36 per cent. of Soviet request) of which:	229N	
	10 against item 1		} By December 1944.
	10 against item 2		
	10 against item 3		
	10 against item 4		
(j) Motors and Starters.	85 per cent. in value of 20,000 motors and starters	219N, 245N 220N, 246N	By July 1944.
(k) Motors and Starters	30 per cent. in value of	221N 222N 223N	By July 1944.
	55 per cent. in value of	222N 223N	By December 1944.
(l) Sub-stations	150	235N	Delivery in accordance with agreement to be reached.
10. Mining and other Equipment—			
Electric Locomotives . .	150	165N, 198N 209N	By March 1945.
Electric Trucks	150 of which:	226N	} By September 1944. Delivery in accordance with agreement to be reached.
	130		
	20		
Drill Sharpeners	50	203N	By May 1944.
Magnetic Separators . .	26	205N, 207N	By March 1945.

	<i>Quantity.</i>	<i>Specifica- tion No.</i>	<i>Delivery Date.</i>
10. Mining and other Equip- ment—Continued			
Shell Forging Installations.	2	200N	By November 1944.
Conveyors.....	40	244N	} Delivery in accord- ance with agree- ment to be reached.
Portal Cranes.....	20	231N	
Rolling Mills.....	5	232N	
11. Hydro-electric Plants—	30,000 k.w.	192N (part)	To be delivered by 31st March, 1945.

Group IV.—Quartermaster Goods—Nil

Group V.—Medical Supplies

The detailed list of Soviet requirements attached hereto is under examination. No overall commitment in terms of money can, however, be given.

[Group VI.]—Food Supplies

To be delivered in quantities to be agreed upon between the respective parties in accordance with shipping space in the tonnage referred to in the preamble to this schedule, and supplies available.

LIST OF SOVIET REQUIREMENTS FOR MEDICAL SUPPLIES MENTIONED
IN GROUP V

Medical Instruments and Equipment

	<i>Quantity</i>
1. Syringes "Record" with two needles, sizes 2.0 c.c.—20.0 c.c.....	95,000
2. Syringes for tuberculin injection, sizes 0.5 c.c.—1.0 c.c.....	5,000
3. Needles with cannulae "Record," various sizes.....	1,000,000
4. Needles for blood transfusion.....	50,000
5. Pean's artery forceps.....	50,000
6. Halstead's artery forceps.....
7. Adson's artery forceps.....
8. Scissors, "Cooper".....	25,000
9. Straight, blunt-pointed scissors.....	50,000
10. Quartz-mercury-vapour lamp, portable, "Bach".....
11. Straight dental handpieces for dental drilling machine.....	25,000
12. Angular dental handpieces for dental drilling machine.....	25,000
13. Hose for dental drilling machine.....	5,000
14. Portable Primus stoves.....	1,000
15. Electrocardiographs with accessories.....sets..	25
16. Electromagnets for removal of foreign substances from eyes, with rectifier for 110–220 volt. type Millinger.....	50
17. Electric dental drilling machine with hoses and handpieces, 110–220 volt.....	500
18. Electric centrifuges (Sharpless) of different powers.....	10
19. Supercentrifuges of different powers.....	10
20. Portable X-ray units with generators.....	100
21. X-ray units, stationary.....	200

	<i>Quantity</i>
22. Large optometric glasses ⁷ sets	1, 000
23. Dental forceps sets	3, 000
24. Glasses for spectacles of different diopters (plus and minus) pairs	2, 000, 000
25. Cases of trial lenses	
26. Frames for spectacles	1, 000, 000
27. Eye prosthesis	
28. Observation cystoscopes with lamps and 12 spare lamps for each separately	300
29. Irrigation cystoscopes with lamps and 12 spare lamps for each separately	300
30. Catheteric cystoscopes with lamps and 12 spare lamps for each separately	200
31. Children's cystoscopes with lamps and 12 spare lamps for each separately	200
32. Diagnostic tubes for X-ray units	1, 000
33. Diagnostic Kenatron valves	1, 000
34. Saws, "Olivechrona"	
35. Conductors, "Martel," for saws, "Olivechrona"	
36. Leaden glasses for translucent screens, 30 x 40 cm	1, 000
37. Dental caoutchouc (Dentalit) tons	2
38. Dental cement, type Ercadent portions	20, 000
39. Dental cement, oxy-phosphate portions	20, 000
40. X-ray films boxes	10, 000
41. Safety pins	100, 000, 000
42. Rubber-proofed material for first-aid outfits metres	1, 000, 000
43. Pot-stills ⁷	
44. Forceps, "Borchard"	

Medicaments

45. Ascorbic acid	
46. Aspirin tons	100
47. Medical glucose tons	100
48. Insulin, 40 units per 1 c.c. botts	200, 000
49. Insulin, zinc, protamine botts	50, 000
50. Pure caffenin tons	10
51. Pure codeine tons	2
52. Codeine phosphate ton	1
53. Novocaine (procaine hydrochloride) (see item 78)	
54. Luminal (Phenobarbitone) tons	3
55. Peptone tons	5
56. Chinosol (Pot. Hydroxyquinoline Sulphate) tons	0. 5
57. Nicotinic Acid tons	0. 1
58. Arabinose	
59. Mannite ton	1
60. Maltose	
61. Pancreatin tons	0. 5
62. Lactose	
63. Citric acid tons	15
64. Caustic potash tons	12. 5
65. Digalen tons	3
66. Pyridine (pure) tons	30
67. Salicylic acid tons	50
68. Acetanilide tons	100
69. Cocoa-butter tons	10
70. Peppermint oil ton	1
71. Calcined magnesia ton	1

⁷Precise definition of these items awaited. [Footnote in original.]

	<i>Quantity</i>
72. Sodium citrate..... tons..	5
73. Sodium salicylate (theobromine diuretin) (see item 88)..... tons..	25
74. Gold and sodium thiosulphate..... ton..	1
75. Sodium bromide..... tons..	20
76. Pyramidon (Amidopyrin)..... tons..	20
77. Phenacetin.....	2
78. Procaine hydrochloride (see item 53)..... tons..	2
79. Rivanol.....	20
80. Sulphanilamide (streptocide)..... tons..	20
81. Sulphapyridine.....	100
82. Soda crystals..... tons..	1
83. Lead acetate..... ton..	25
84. Salol..... tons..	5
85. Sulphathiazole..... tons..	3
86. Seeds of Nux vomica (Strychnine)..... tons..	3
87. Strophantus seeds..... tons..	10
88. Theobromine sodium salicylate (Diuretin) (see item 73)..... tons..	5
89. Tannin..... tons..	50
90. Chloramine..... tons..	500,000
91. Hexobarbitone sodium (Evipan sodium), 0.5 cc..... ampoules..	10,000,000
92. Lobeline in ampoules..... ampoules..	500,000
93. Magnesium sulphate, 50 per cent. in ampoules 2.0 cc..... ampoules..	10,000,000
94. Camphor in ampoules..... ampoules..	2,000,000
95. Ethyl chloride in ampoules..... ampoules..	1,000,000
96. Cardiamine (metrazol) in ampoules (see item 98)..... ampoules..	10,000,000
97. Morphia in ampoules..... ampoules..	500,000
98. Cardiazol in ampoules (see item 96)..... ampoules..	500,000
99. Fuchsine (Magenta).....	
100. Eosin.....	
101. Serums for Catalepsy and gangrene (subject to specifications).....	

CANADIAN SCHEDULE OF SUPPLIES

Subject to the provisions of the Protocol, the Canadian Government undertakes to make available at Canadian ports of exit during the period the 1st July, 1943, to the 30th June, 1944, for shipment to the Union of Soviet Socialist Republics the supplies set out below. The items in this schedule of supplies are offered subject to the ability of Canada to meet the specifications requested by the Union of Soviet Socialist Republics.

It is appreciated that reasonable stockpile of stores must be maintained, so that the Union of Soviet Socialist Republics can select cargo for shipment that is most needed to meet the ever-changing requirements of war. However, Canada reserves the right to limit the size of such individual stockpiles either by control of production or diversion of product, or both, when in its judgment such action is in the best interest of the common cause. In taking such action due consideration will be given to the expressed needs of the Union of Soviet Socialist Republics:

1. Powder..... Up to 1,600 short tons per month.
 (a) Cordite WM017 32" and 16" (16" not to be more than one-third of total). 300 short tons, August.
 300 short tons, September.
 600 short tons, October.
 600 short tons, November.
- From November 1943 to 30th June, 1944, Canada will endeavour to supply at least 600 short tons per month (see note).
- (b) Pyroxyline powder for 3" gun, Pyroxyline powder for 90-mm. gun. 500 short tons per month (see note).
- (c) Nitroglycerine powder..... (Stick propellant) up to 400 short tons per month (see note).
- (d) Rifle Pyroxyline powder..... 100 short tons per month.

NOTES (a), (b) AND (c).—If arrangements can be worked out with the Government of the United States to increase the supply of (b) to the U.S.S.R., and if as a consequence the Canadian commitment under (b) is reduced, this may make it possible to increase the Canadian commitment under (a). The supply under (c) is dependent upon solving production problems.

2. Machine Tools..... } Maximum amount \$12,000,000 (covering
 3. Industrial Machinery..... } machine tools and industrial machinery).
 4. Medical Supplies..... Dependent upon supply position.
 5. Aluminium Ingots..... 1,500 short tons per month.
 6. Nickel..... 150 short tons per month.
 7. Cadmium..... Up to 224 short tons for Protocol period.
 8. Ferrosilicon..... 336 short tons per month.
 9. Ferrochrome..... 224 short tons per month.
 10. Wheat and Flour..... 300,000 short tons of wheat—to be included in this quantity up to 200,000 short tons of wheat flour. The tonnage of flour included is dependent upon production possibilities in Canada and upon firm shipment commitment from the U.S.S.R. Any flour or wheat shipments will be charged against the Wheat Credit Agreement dated the 8th September, 1942, until the credit provided by Canada under this agreement is exhausted.
11. Signal Cartridges 1"..... 90,000.
 12. Lead..... 10,000 short tons in Protocol period. The provision of additional 10,000 tons will be considered in December 1943.
13. Flat Cars..... 2,000. The provision of an additional 2,000 will be considered in November 1943.
14. Rails (75 lbs. less accessories)..... 40,000 tons (10,000 per month in September, October, November and December). The provision of additional quantities will be considered in October 1943.
15. Snowmobiles..... 6.
 16. Ship Repairs..... The maximum dollar value is subject to negotiations.
 17. Cranes..... In an amount to be negotiated.

18. Lorries
 (a) Mobile machine shops, work shops, &c.—up to 1,370 units. These items are included in a previous nonprotocol agreement between the U.S.S.R. and the United Kingdom and are being manufactured in Canada.
 (b) 220 trailer gas welding units to accompany KL units in (a) above. This is an additional offer.
19. Bofors 40-mm. Guns and Ammunition... A firm offer cannot be made at present; if production of ammunition can be increased, the number of equipments and rounds of ammunition to be provided will be subject to negotiation.
20. Power Plants and Plant Equipment. . . . Supply and maximum dollar value are subject to negotiation.
21. Mosquito Bombers. The possibilities of supply are dependent upon production. The request will be reconsidered in December 1943.
22. Wooden Minesweepers. 10. The supply of this item depends upon the production programme of diesel motors which is under study. It will be reconsidered in December 1943.

NOTE.—Other items requested which, on account of production, and for other reasons, it will be necessary to review at a later date:

- (1) Locomotive.
- (2) 25-pdr. guns with self-propelled mounts.