

## WARTIME SUPPLIES FOR SOVIET UNION

*Ottawa protocol (fourth protocol) signed at Ottawa April 17, 1945<sup>1</sup>  
Operative July 1, 1944, to June 30, 1945  
Expired June 30, 1945*

Department of State, *Soviet Supply Protocols* (U.S. Government Printing Office, 1947), p. 87

### FOURTH PROTOCOL

The Government of the United States, the Government of the United Kingdom and the Government of Canada recognizing 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 meeting its war needs 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 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 fulfillment impracticable.

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<sup>1</sup> For text of London protocol (third protocol) signed Oct. 19, 1943, see *ante*, p. 785.

## ARTICLE III

The Government of the Union of Soviet Socialist Republics undertakes to make available to the Governments of the United States, the United Kingdom and Canada, within the period covered by the present Protocol, such raw materials, other supplies and services as may be available and as are desired by said Governments in the prosecution of the war.

## ARTICLE IV

The financial arrangements concluded between the Government of the Union of Soviet Socialist Republics and the Government of the United States in connection with supplies furnished in pursuance of the present Protocol may be in accordance with the terms and conditions of the Master Lend-Lease Agreement of June 11, 1942,<sup>2</sup> and with the terms and conditions of any amendment to said agreement which may hereafter be concluded by mutual agreement or the Government of the Union of Soviet Socialist Republics may elect to purchase from the United States schedules of supplies for cash.

The financial arrangements between the Government of the Union of Soviet Socialist Republics and the Government of Canada in connection with the supplies to be furnished by the Government of Canada in pursuance of the present Protocol shall be in accordance with the terms and conditions of the Mutual Aid Agreement of February 11, 1944, between the two Governments for such supplies as the Government of Canada may authorize under Articles I and III thereof, and for other supplies shall be in accordance with the terms and conditions of special agreements or understandings between the two Governments.

The financial arrangements under which supplies will be furnished by the Government of the United Kingdom to the Government of the Union of Soviet Socialist Republics in pursuance of this Protocol, shall be in accordance with the terms and conditions of the cash-credit agreement of the 16th August 1941, for civil supplies, and the agreement of the 27th June 1942, governing military supplies, or with the terms and conditions of any amendments to the said two agreements which may hereafter be concluded by mutual consent.

## ARTICLE V

The lists of supplies in the schedules annexed hereto shall be subject to reallocation among the three supplying countries as they may decide among themselves in order to meet strategic, supply, or shipping exigencies. The lists of supplies shall also be subject to review and variation by the three supplying countries in the event of major changes in the war situation. If shipping losses, production failures, or the necessities of other operations render the fulfill-

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<sup>2</sup> EAS 253, *post*, U.S.S.R.

ment of the schedules prohibitive, it may be necessary to reduce them or to make diversions therefrom. 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 authorized by their respective Governments, have signed the present Protocol.

Done in Ottawa in quadruplicate on the 17th day of April, 1945, in the English language.

For the Government of the United  
States of America:  
RAY ATHERTON

For the Government of Canada:  
W. L. MACKENZIE KING  
J. L. ILSLEY

For the Government of the United  
Kingdom of Great Britain and  
Northern Ireland:  
MALCOLM MACDONALD

For the Government of the Union of  
Soviet Socialist Republics:  
G. ZARUBIN

#### UNITED STATES SCHEDULES OF SHIPPING AND SUPPLIES

##### *Shipping*

Subject to the provisions of Article II of this Protocol, the Government of the United States undertakes to aid the Government of the Union of Soviet Socialist Republics in the shipment from the Western Hemisphere to the Union of Soviet Socialist Republics during the Protocol period of a minimum of 5,700,000 short tons of supplies, 2,700,000 short tons to be shipped via the Pacific route and 3,000,000 short tons to be shipped via the Atlantic routes.

In addition to the 5,700,000 short tons committed above the Government of the United States undertakes to aid the Government of the Union of Soviet Socialist Republics in the shipment of such material as can be made available to meet the requirements of a list of supplies submitted to the Government of the United States by the Government of the Union of Soviet Socialist Republics on October 17, 1944.

The above undertakings are intended to provide shipping from the Western Hemisphere for all supplies including supplies furnished by the Governments of the United States, the United Kingdom, and Canada and all relief supplies.

To insure accomplishment of the above objective, the Government of the United States undertakes to supplement the Soviet Flag shipping which is presently employed in the Pacific route to the extent necessary to maintain shipments at an average rate of 225,000 short tons a month, with the understanding that the Government of the Union of Soviet Socialist Republics

will use its best efforts in achieving the shortest possible turn-around in the Pacific trade which is consistent with prudent operation. It is further understood that should untoward events preclude or restrict the use of the Pacific route by the U.S.S.R., the United States shipping transferred to the Soviet Flag for employment on this route will be utilized on other routes from the Western Hemisphere to the U.S.S.R.

The Government of the United States undertakes to provide the shipping for movement by such Atlantic routes as may be available of an average of 250,000 short tons a month, provided such capacity proves to be available to the United States. The above undertaking for shipment by Atlantic routes is considered by the Government of the United States to be a minimum and, if conditions permit, every effort will be made to exceed this minimum.

In addition to the foregoing undertaking for ocean shipment, the Government of the United States will aid the Government of the Union of Soviet Socialist Republics in the movement through the Persian Corridor of Petroleum products originating in the Persian Gulf area in an amount not to exceed 350,000 short tons.

### *Supplies*

The Government of the United States will make available for shipment to the Government of the Union of Soviet Socialist Republics during the period of this Protocol, July 1, 1944 to June 30, 1945, from supplies made available under the Third Protocol but unshipped on July 1, 1944, and from quantities to be made available under this Protocol a minimum of 5,944,000 short tons of supplies as set forth in Annex I provided the quantities of specific items to be made available do not exceed the quantities of specific items offered in Annex II.

In addition to the supplies referred to above to be made available to the Union of Soviet Socialist Republics, the Government of the United States will endeavour to make available under the terms of this Protocol such additional material set forth in the list of supplies submitted to the Government of the United States by the Government of the Union of Soviet Socialist Republics on October 17, 1944 as can be provided within the limits of available resources. (To be designated after agreement on specifications as Annex III.)

Except as otherwise specified quantities will be made available at points of origin in the United States and as nearly as practicable in equal monthly installments. However, the Government of the United States reserves the right to make available from sources outside the United States such supplies as may be necessary to provide the specific items desired by the Government of the Union of Soviet Socialist Republics for delivery under this Protocol. The conditions under which specific items will be made available will be in accord-

ance with the conditions of the offerings in Annex II forming a part of this Protocol.

Undertakings as to supplies are subject to the provisions hereinafter contained relative to stockpiles and specifications.

#### *Stockpiles*

While the need for reasonable stockpiles of supplies in the United States is appreciated, it is also recognized that the accumulation of excessively large stockpiles of supplies is not consistent with the most effective utilization in the common cause of production facilities and supplies of raw materials. Accordingly, it will be necessary for the Government of the United States to limit the size of individual stockpiles either by control of production, by diversion of product, or by repossession, when in its judgment such action is in the best interest of the common cause. In taking such action, the Government of the United States will give due consideration to the expressed needs of the U.S.S.R.

#### *Specifications*

In order to produce and make available within the period of this Protocol the quantities of specific items desired by the Government of the Union of Soviet Socialist Republics, it is essential that specifications for such items be of such a nature and be submitted within such time as to adapt themselves to United States production policies and methods. In this connection, the United States stands ready to provide all possible information and assistance to the representatives of the Government of the U.S.S.R.

#### *Arrearages*

In the event of arrearages in the various items, the United States will, subject to shipping capabilities, the needs of the Soviet Government, other urgent war requirements and feasible production schedules, give all possible consideration to overcoming such arrearages.

#### *General*

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

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 and, then only, after due consideration is given to the needs of the U.S.S.R.

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.

## ANNEX I

*Group I.—Aircraft and Aircraft Equipment*

61,000 short tons shipping weight and aircraft to be flight-delivered.

*Group II.—Military Supplies*

1,441,000 short tons shipping weight.

*Group III.—Naval and Marine Supplies*

48,000 short tons shipping weight and vessels proceeding under their own power.

*Group IV.—Foodstuffs and Related Products*

1,602,000 short tons shipping weight.

*Group V.—Machinery and Equipment*

443,000 short tons shipping weight.

Quantities to be made available will be from the following offerings in Group V of Annex I:

Old orders undelivered from factories as of June 30, 1944, estimated at \$126,517,000 and \$223,229,000 of orders authorized during the Third Protocol period for delivery during the Fourth Protocol period in accordance with Group V, paragraph I . . . . .	\$349, 746, 000
New orders to be placed during the Fourth Protocol period in accordance with Group V, paragraph II . . . . .	\$300, 900, 000
New orders to be placed in accordance with Group V, paragraph III . . . . .	\$481, 807, 000

*Group VI.—Other Materials and Products*

2,349,000 short tons shipping weight.

## ANNEX II

*Specific items requested by the Government of the Union of Soviet Socialist Republics which may be made available during the period July 1, 1944, to June 30, 1945, in equal monthly installments, at points of origin in the United States unless otherwise specified. Quantities include supplies from all requisitions, assignments or other procurement authorizations unfilled on June 30, 1944:*

Due to changes in supply arrangements occasioned by the selections made by the Soviet Government in its note directed to the Secretary of State, dated

October 30, 1944, the quantities of specific items to be made available will be limited to the quantities required to meet these selections. However, such quantities may be increased from time to time as circumstances permit.

S.W.—Shipping weight packed for export.

N.W.—Net weight.

All tons are short tons of 2,000 lbs. each.

*Group I.—Aircraft and Aircraft Equipment*

U.S.

Ref. No.

I-1A1&A4 Pursuit Planes P-39 or P-63

Request: 2,450

(I A&M 1 part)

Offer: 2,450

2,400 from U.S.

50 from North African Theatre

For flight-delivery

I-1C Medium Bombers B-25

Request: 600

(I A&M 1 part)

Offer: 300

For flight-delivery

I-1D1 Heavy Bombers B-17

Request: 240

(I A&M 1 part)

Offer: 0

I-1D2 Heavy Bombers B-24

Request: 300

(I A&M 1 part)

Offer: 0

I-1E2 Transport Planes C-47

Request: 360

(I A&M 1 part)

Offer: 240

For flight-delivery

I-1E1 or E3 Transport Planes C-46 or C-57

Request: 120

(I A&M 1 part)

Offer: 0

I-1F Flying Boats

Request: 120

(I A&M 1 part)

Offer: 30

(60 additional will be supplied if conditions permit)

For flight-delivery

I-2 Spare Parts for Aircraft Furnished

Request: Spare engines and propellers—30% of those installed on planes.

(I A&M 1 part)

Airplane spare parts—20% of value of planes

Engine spare parts—15% of value of plane

Propeller spare parts—15% of value of propeller.

Offer: Spare parts will be supplied in accordance with U.S. Army standards which are in general equal to or in excess of amounts requested.

10,776 tons S.W.

U.S.  
Ref. No.

## I-6B Airplane Landing Mats

Request: 16,000,000 square feet

(Supplementary)

Offer: 16,000,000 square feet in first half (Seq. Rec. No. 5577)

8,000,000 sq. ft. Bar and Rod type

8,000,000 sq. ft. Pierced plank type

36,600 tons S.W.

*Group II.—Military Supplies*

## II-1A2 Medium Tanks

Request: 3,173

(I A&amp;M 2)

Offer: 3,173, M4A2

1,537 in first half

1,636 in second half

96,142 tons S.W.

## II-2A Field Repair Trucks

Request: 222

(I A&amp;M 3 part)

Offer: 222

82—2½ ton 6x6 small arms repair with signal repair load.

41 in first half

41 in second half

140—trucks, Couse type, field repair shops—in second half.

1,347 tons S.W.

## II-2C Tank Transporters

Request: 952

(I A&amp;M 3 part)

Offer: 400—40 tons (with trailers) in second half

10,603 tons S.W.

## II-3A1 Jeeps (¼ ton 4x4 trucks)

Request: 9,683—Spare parts 20% of "Jeep"

(I A&amp;M 4)

Offer: 9,300—truck ¼ ton 4x4 command in first half

9,270 tons S.W.

## II-3B1 Trucks, ¾ ton

Request: 28,144

(I A&amp;M 3 part)

Offer: 16,000 4x4 weapons carriers

4,800 in first half

11,200 in second half

41,304 tons S.W.

## II-3B2 Trucks, 1½ ton

Request: 41,821

(I A&amp;M 3 part)

Offer: 41,436

16,000 4x2 in first half

25,436 4x4

16,292 in first half

9,144 in second half

159,276 tons S.W.

## II-3B3 Trucks, 2½ ton

Request: 79,790

(I A&amp;M 3 part)

Offer: 73,560

30,000—6x4

14,473 in first half

15,527 in second half

43,560—6x6

19,157 in first half

24,403 in second half

434,787 tons S.W.

U.S.  
 Ref. No.

II-3B4 Trucks, 2½ ton Amphibian  
 Request: 1,200  
 (I A&M 3 part)  
 Offer: 300 in first half 2,700 tons S.W.

II-3C Trucks—5 ton and over  
 Request: 1,140  
 (I A&M 3 part)  
 Offer: 1,040 12,403 tons S.W.  
 240—6 or 7½ ton prime mover in second half  
 700—10 ton 6x4 (Mack) in second half  
 100—5-6 ton 4x4 cargo fwd-su (for mounting compressors) in second half

II-3D Trucks, Special Purpose  
 Request: 3,270  
 (I A&M 3 part)  
 Offer: 1,700 13,630 tons S.W.  
 1,500—4 ton or 5 ton dump  
 320 in first half  
 1,180 in second half  
 100—Snow-plows, rotary type gasoline engine driven, on 6 ton 6x6 truck mounting—in first half  
 100—5 ton 4x6 dump trucks in second half

II-31 Truck-Tractors With Trailers  
 Request: 1,275  
 (I A&M 3 part)  
 Offer: 1,275 11,253 tons S.W.  
 1,200—2½ ton 6x4 tractors with 7 ton semi-trailers  
 400 in first half  
 800 in second half  
 50—20 ton 6x4 tractors with Freuhauf T-88 semi-trailers with Gar Wood side dump bodies  
 25 in first half  
 25 in second half  
 25—20 ton 6x4 tractors with Freuhauf T-88 semi-trailers with Gar Wood end dump bodies  
 10 in first half  
 15 in second half

II-4A1 Motorcycles  
 Request: 12,000  
 (I A&M 7)  
 Offer: 12,000 Solo—U.S. standard 3,150 tons S.W.  
 6,969 in first half  
 5,031 in second half

II-4B1 Tractors (artillery prime movers)  
 Request: 5,000—4,000 medium  
 1,000 heavy  
 Spare parts 20% of value of item  
 Offer: 2,400 7,920 tons S.W.  
 360 Class II Heavy in first half  
 840 Class III Medium in first half  
 360 Class II Heavy in second half  
 840 Class III Medium in second half

U.S.  
 Ref. No.

II-4B3 Engines for Tractors  
 Request: 4,000 GMC 4/71  
 (I A&M 6)  
 Offer: 2,000 GMC 4/71 2,746 tons S.W.  
     450 in first half  
     1,550 in second half

II-5A1 A.A. Guns, 90 mm  
 Request: 240  
 (I A&M 10)  
 Offer: 240 complete with searchlights and fire control equipment 4,207 tons S.W.  
     but not including electronic gun-laying sets in first half  
     192—M1A1  
     48—M2

II-5H Ammunition  
 Request: 2,000 shells for each anti-aircraft gun  
 (I A&M 14)  
     4 sets for each tank  
     15 sets for each plane  
 Offer: Requests will be met in full except shells for 90 mm guns 62,938 tons S.W.  
     which can be supplied up to 1,650 rds. per gun

II-5K Howitzer, 240 mm  
 Request: 2  
 (Supplementary)  
 Offer: 2—M1 on carriage M1—in second half 90 tons S.W.

II-5L Gun, 8"  
 Request: 2  
 (Supplementary)  
 Offer: 2—M1 on carriage M2—in second half 32 tons S.W.

Spare Parts for Ordnance Materiel  
 Spare parts will be furnished in all instances in accordance with  
 U.S. Army standards

Estimated Tonnage of Replenishment

Spares for Ordnance Materiel  
 To be furnished during Protocol period 20,000 tons S.W.

II-6A1 Smokeless Powder  
 Request: 89,985 tons  
 (I A&M 11 part)  
 Offer: 65,000 tons N.W. 78,000 tons S.W.  
     30,000 tons 3 in.  
     15,000 tons in first half  
     15,000 tons in second half  
     26,000 tons 90 mm  
     13,000 tons in first half  
     13,000 tons in second half  
     9,000 tons .30 cal.  
     4,500 tons in first half  
     4,500 tons in second half

II-6A2 Stick Powder (solventless propelling)  
 Request: 7,500 tons  
 (I A&M 11 part)  
 Offer: 0

U.S.

Ref. No.

## II-6B T.N.T.

Request: 65,000 tons

(I A&amp;M 13)

Offer: 60,000 tons N.W.

30,000 tons in first half

30,000 tons in second half

68,400 tons S.W.

## II-6C Dynamite (including Ammonite)

Offer: 11,608 tons N.W.

5,804 tons in first half

5,804 tons in second half

13,350 tons S.W.

## II-6F Detonators, Blasting Supplies, etc.

Offer: \$3,248,000

\$2,818,000 (62,630,000 ft.) blasting fuse in first half

\$160,000 (6,415,000 ft. detonating cord) in first half

\$270,000 (20,000,000 blasting caps) in first half

691 tons S.W.

## II-7A2 Radio Stations Over 1 KW

Request: 191

(I A&amp;M 15-1)

Offer: 153

4—50 KW shortwave

1 in first half

3 in second half

30—15 KW

10 in first half

20 in second half

20—7.5 KW in second half

99—3 KW

39 in first half

60 in second half

14,851 tons S.W.

## II-7B2 Radio Stations 1 KW and under

Request: 12,100

(I A&amp;M 5-2)

Offer: 12,100

1,000 SCR-399

600 in first half

400 in second half

4,000 SCR-284 in first half

3,300 SCR-274N, aircraft

1,300 in first half

2,000 in second half

200 SCR-177B

150 in first half

50 in second half

3,600 Pilot V-100B

600 in first half

3,000 in second half

7,409 tons S.W.

## II-7C2 Radio Receivers

Request: 2,600

(I A&amp;M 15-5)

Offer: 2,600

400—RCA DR-89

50 in first half

350 in second half

1,200—National HRO in second half

500—Federal 128-A in second half

500—SP-210-X or SCR-244 in second half

398 tons S. W.

- U.S.  
Ref. No.
- II-7D1 Radio Locators—Marine  
Request: 250  
(I A&M 15—6 part)  
Offer: Under study
- II-7D2 Radio Locators—Ground  
Request: 220  
(I A&M 15—6)  
Offer: 196 units 2,542 tons S. W.  
98 AN/TPS-3 (with IFF-AN/TPX-3) in first half  
4\* SCR 271 DA in first half  
21\* SCR 527 in first half  
13\* SCR 627 in first half  
60 SCR 545 in first half  
\*Together with 15 filter centres AN/TTQ-1.
- II-7D3 Radio Locators, Aircraft  
Request: 500  
(I A&M 15—6 part)  
Offer: Under study
- II-7E Radio Direction Finders  
Request: 277  
(I A&M 15—4)  
Offer: 200 SCR—551 with power supply SCR—169 720 tons S. W.  
195 in first half (40 delivered in Third Protocol)  
5 in second half
- II-7F Radio Altimeters  
Request: 2,000  
(I A&M 15—7)  
Offer: 300 12 tons S. W.  
50—SCR 718 in first half  
250—AN/APN-1 in first half  
Additional offering will be considered upon receipt of specifications.
- II-7G Radio Beacons  
Request: 50  
(I A&M 15—8)  
Offer: Under study 518 tons S.W.
- II-7H Radio Tubes  
Request: 5,000,000  
(I A&M 15—9)  
Offer: 5,000,000  
2,500,000 in first half  
2,500,000 in second half  
Subject to availability of specific types.
- II-7I & J Radio Component Parts and Accessories and Radio Measuring and Testing Equipment  
Request: \$3,600,000  
(I A&M 15—10)  
Offer: \$3,438,000 1,000 tons S.W.  
\$1,000,000 in first half  
\$2,438,000 in second half

U.S.

Ref. No.

## II-7K Radio Compasses

Request: 1,200

(Supplementary)

Offer: 1,200

1,000 MN-26C in first half

200 SCR-269G in first half

35 tons S.W.

## II-8A Road and Airport Construction Equipment

Request: 1,438 units (\$7,368,500)

(I A&amp;M 8 &amp; 9 parts)

Offer: 670 units (\$2,925,000)

200 units (\$800,000) road rollers, gasoline engine driven, tandem 2 wheel, 5-8 ton, in second half.

100 units (\$565,000) road rollers, gasoline engine driven, 3 wheel 10 ton, in second half.

100 units (\$350,000) road rollers, 3½-5 ton and/or 5-8 ton 50 in first half

50 in second half

60 units (\$300,000) road rollers, gasoline, steam or diesel, 10 ton or over, new or reconditioned tandem, either 2 or 3 wheel.

30 in first half

30 in second half

100 units (\$750,000) road graders, motorized (moldboard, 12') gasoline or diesel in second half.

200 units (\$160,000) plow, snow, "V" type w/o trucks 150 in first half

50 in second half

6,140 tons S.W.

## II-8B Tractor Mounted Construction Equipment

Request: 208 (\$2,404,000)

(I A&amp;M 8 part)

Offer: 150 units (\$1,605,000) tractors Class II with dozer

25 in first half

125 in second half

525 tons S.W.

## II-8C Mixers and Pavers, Bituminous and Concrete

Request: 372 units (\$2,594,000)

(I A&amp;M 8)

Offer: 348 units (\$1,994,000)

160 units (\$896,000) distributor, bituminous material, trailer mounted, 1250 gallon.

40 in first half

120 in second half

12 units (\$300,000) mixer, asphalt, self-propelled, gasoline or diesel engine driven, with spreader-finisher unit, Jaeger Model MP-2, in second half.

40 units (\$100,000) heater, asphalt, trailer-mounted, 2 car, 28 H.P.

15 in first half

25 in second half

100 units (\$81,000) spreader, aggregate, towed type, traction-powered, 8' width w/o truck, in second half

33 units (\$594,000) mixer, asphalt, gasoline engine driven, semi-trailer mounted with pneumatic tires, 15-30 tons per hour, Barber-Green Model 841, in second half.

3 units (\$23,000) finisher, asphalt, crawler-mounted, 12 ft., Barber-Green Model No. 879A, in second half.

4,982 tons S.W.

- U.S.  
Ref. No.
- II-9A1 Steam Locomotives, R. R.  
Request: 1,564, (\$139,360,000)  
(III 1)  
Offer: 1,585 (\$139,010,000) 201,404 tons S.W.  
1,499—2-10-0, 105 ton 60" ga. includes 99 units repossessed  
during Third Protocol period.  
1,050 in first half  
449 in second half  
10—0-4-0 50 ton, 60" ga. in first half  
76—0-6-0 70 ton, 60" ga.  
20 in first half  
56 in second half
- II-9A2 Electric Locomotives, R. R.  
Request: 50 (\$12,500,000)  
(III 2)  
Offer: 50 (\$12,500,000)  
In accordance with the terms of paragraph "III" in Section  
V, "Machinery and Equipment". Financial assistance of the  
Lend-Lease Act will not be extended for this item.
- II-9A3 Diesel-Electric Locomotives  
Offer: 100 (\$12,400,000) 127 ton 60" ga. old orders 12,000 tons S.W.  
50 in first half  
50 in second half
- II-9B1 Flatcars, R. R.  
Request: 14,549 (\$36,372,500)  
(III 3)  
Offer: 12,244 (\$30,610,000) 50 m. t. 60" ga. 279,163 tons S.W.  
7,244 in first half  
5,000 in second half
- II-9B2 Dump Cars, R. R.  
Request: 2,000 (\$9,600,000)  
(III 4)  
Offer: 1,130 (\$5,424,000) 20 cu. yd. 60" ga. 29,154 tons S.W.  
630 in first half  
500 in second half
- II-9B4 Heavy Machinery Cars, R. R.  
Offer: 35 (\$280,000) 125 to 200 tons 60" ga., in first half 4,200 tons S.W.
- II-10 Medical Supplies  
Request: \$17,500,000  
(VII)  
Offer: \$17,500,000 maximum, provided Soviet requests are for 4,375 tons S.W.  
quantities and items acceptable to the War Department and  
are fulfilled to the greatest extent possible from available stand-  
ard U.S. Medical items.
- Additional Military Supplies  
Additional Military Supplies required for the U.S.S.R. war effort  
will be made available or placed in procurement as shipping  
conditions permit.

*Group III.—Naval and Marine Supplies*

U.S.  
 Ref. No.  
 III-1B Tankers  
 Request: 10—3,000 to 6,000 tons  
 (I N6)  
 Offer: Under consideration

III-1C Icebreakers  
 Requests: 2—“NORTH WIND” type, 12,000 H.P.  
 (IN5)  
 Offer: 0

III-1D Tugboats  
 Request: 45  
 (I N7)  
 Offer: 35  
 15—800 H.P. (old orders)  
 20—143' steel tugs in accordance with U.S. Navy specifications  
 and plans. These tugs are offered under the express con-  
 dition that when and as they are completed, they may be  
 retained by the Navy to fill urgent operational requirements.

III-1D1 Complete Mechanical and Electrical Equipment for Tugboats  
 Offer: Undelivered portion of equipment for 3 tugboats (\$206,-  
 000) (old orders only) 500 tons S.W.

III-1E Cable Ships  
 Request: 2  
 (1N10)  
 Offer: Under consideration

III-1G Pneumatic Pontoons  
 Request: 120—capacity 4 to 100 tons  
 Offer: 120 100 tons S.W.  
 80—capacity 40 tons  
 40—capacity 100 tons

III-1H Complete Mechanical and Electrical Equipment for Ferry  
 Boats  
 Offer: For 6 boats (old orders) 30 tons S.W.

III-2A Submarine Chasers—110'  
 Request: 72  
 (I N1)  
 Offer: 23 (old orders)  
 Balance under study.

III-2B Submarine Chasers—65'  
 Offer: 17 (old orders) 800 tons S.W.

III-2C Torpedo Boats  
 Request: 130  
 (I N2)  
 Offer: 130 9,260 tons S.W.  
 100 old orders of which 44 will be knocked down.  
 30—6 per month beginning in September (new orders)

- U.S.  
 Ref. No.  
 III-2D Minesweepers  
 Request: 30  
 Offer: 12 YMS—4 each month beginning in first quarter  
 1945
- III-2D1 Trawling Equipment for Minesweepers  
 Request: 120 sets  
 (I N3 part)  
 Offer: 90 sets 2,960 tons S.W.  
 20 old orders  
 70 new orders
- III-2E Escort Vessels  
 Request: 20 with displacement of from 200 to 1,200 tons  
 (I N4)  
 Offer: Under study
- III-2F Tenders  
 Request: 3—Boom tenders with carrying power of 25 to 30 tons  
 (I N8)  
 Offer: Under study
- III-3A Marine Diesel Engines  
 Request: 3,804  
 Offer: 3,529 24,039 tons S.W.  
 12—1,600 H.P. new orders (Tentative)  
 3—1,400 H.P. new orders (Tentative) from surplus  
 150—1,200 H.P.  
 50 old orders  
 100 new orders (Tentative)  
 45—650 H.P. old orders  
 1,142—101 to 500 H.P.  
 460 old orders  
 600 new orders limited to 125-400 to 500 H.P. and 60-300 to  
 399 H.P.  
 82 new orders from surplus  
 1,392—31 to 100 H.P.  
 564 old orders  
 625 new orders  
 203 new orders from surplus  
 785—9 to 30 H.P.  
 225 old orders  
 560 new orders
- III-3B Marine Gasoline Engines  
 Request: 1,943  
 (I N11 6 to 9)  
 Offer: 1,743 2,580 tons S.W.  
 535—1,200 H.P. "Packard", old orders  
 50—650 H.P. H-S Defender, new orders  
 434—101 to 300 H.P.  
 34 old orders  
 400 new orders  
 724—13 to 100 H.P.  
 524 old orders  
 200 new orders

U.S.

Ref. No.

III-3C Marine Wooden Gas Engines	
Offer: 200 (old orders only)	80 tons S.W.
III-3D Outboard Motors	
Request: 850	
Offer: 850 new orders	90 tons S.W.
300—22.5 quads.	
450— 9.7 quads.	
100— 5.4 quads.	
III-3E Shafting and Ship Propellers	
Offer: \$204,000 (old orders only)	165 tons S.W.
III-3F Steering Gears	
Request: \$784,000	
Offer: \$784,000	260 tons S.W.
\$284,000 old orders	
\$500,000 new orders consisting of 20 sets of electric steering engines with hand mechanisms for steering	
III-3G Storage Batteries for Submarines	
Offer: 18 (old orders only)	1,590 tons S.W.
III-4A Salvage Stations and Diving Gear	
Request: \$670,000	
Offer: \$670,000	280 tons S.W.
\$170,000 old orders	
\$500,000 new orders to consist of 50 diving stations 1 C.M. per min. at 25 ATM and 50 diving stations 1 C.M. per hour at 15 ATM.	
III-4B Jetting Equipment	
Request: \$28,000	
Offer: \$28,000, 28 sets	20 tons S.W.
III-4E Distilling Apparatus	
Request: \$1,200,000	
Offer: \$1,200,000—3 units for 500 tons of boiler water a day	600 tons S.W.
III-4G Miscellaneous Special Ship Equipment	
Request: \$500,000	
Offer: \$500,000—426 Machine Telegraphs	325 tons S.W.
Additional Naval and Marine Supplies	
Additional Naval and Marine Supplies required for the U.S.S.R. war effort will be made available or placed in procurement as shipping conditions permit.	

*Group IV.—Foodstuffs and Related Products*

To Be Made Available as Shipped

IV-1B Wheat Flour	
Request: 280,000 tons	
(VI-1, part)	
Offer: 280,000 tons, N.W.	298,760 tons S.W.
IV-1C3 Other Basic Grain Mill Products	
Request: 10,000 tons Semolina	
(VI-1, part)	
Offer: 10,000 tons, N.W. Semolina	10,500 tons S.W.

U.S.		
Ref. No.		
IV-1C4	Other Finished Cereals and Products	
	Request: 35,000 tons	
	(VI-1, part)	
	10,000 tons Rolled Oats	
	25,000 tons Rice	
	Offer: 25,000 tons, N.W. Rice	26,500 tons S.W.
	10,000 tons Rolled Oats will be supplied by Canada	
IV-1D	Dried Peas and Beans	
	Request: 75,000 tons Dried Beans	
	(VI-1, part)	
	Offer: 75,000 tons, N.W. Dried Beans	80,025 tons S.W.
IV-1E1	Seeds	
	Request: 34,000 tons	
	(Supplementary)	
	Offer: 34,000 tons, N.W.	35,700 tons S.W.
IV-2A	Sugar from the United States	
	Request: 350,000 tons from all sources	
	(VI-2)	
	Offer: 200,000 tons N.W.	206,200 tons S.W.
	(105,000 tons cube or tablet if possible)	
IV-2B	Sugar from Other Sources	
	Request: Included in IV-2A	
	Offer: 150,000 tons N.W. granulated from Cuba	151,500 tons S.W.
IV-3A	Canned Dehydrated Meat	
	Request: 12,000 tons	
	(VI-3, part)	
	Offer: 7,000 tons, N.W. Dehydrated Pork	9,100 tons S.W.
IV-3B & C	Tushonka and other Canned Meat	
	Request: 408,000 tons	
	(VI-3, part)	
	Offer: 351,000 tons N.W.	428,220 tons S.W.
	330,000 tons Tushonka, bulk Pork Sausage, Luncheon Meat, and Pork Sausage	
	21,000 tons Bacon	
IV-4A & D	Lard and other Animal Fats and Oils	
	Request: 150,000 tons	
	(VI-5, part)	
	Offer: 170,000 tons, N.W.	200,600 tons S.W.
	(Lard, tallow and oleo oil)	
IV-4B1	Fat Cuts	
	Request: 80,000 tons	
	(VI-5, part)	
	Offer: 100,000 tons N.W.	130,000 tons S.W.
	80,000 if shipped at the rate of 6,700 tons a month	
	20,000 if shipped prior to Nov. 1, 1944	
IV-4B2	Smoked Meats, Except Meat Preparations	
	Request: 10,000 tons	
	(VI-4)	
	Offer: 10,000 tons N.W.	13,000 tons S.W.
	10,000 tons smoked ham and bacon	

U.S.	
Ref. No.	
IV-4B3 Meat Preparations	
Request: 10,000 tons	
Offer: 10,000 tons	13,000 tons S.W.
10,000 tons Smoked Hard Salami	
IV-4C Butter, Butter Oil and Carter's Spread	
Request: 90,000 tons	
(VI-5, part)	
Offer: 40,000 tons, N.W.	49,652 tons S.W.
IV-5A1 Vegetable Oil in Bulk	
Request: 181,000 tons	
(VI-6, part)	
Offer: 181,000 tons, N.W.	181,000 tons S.W.
93,500 tons Soybean Oil	liquid cargo in
81,850 tons Linseed Oil	bulk
5,650 tons Sunflower Oil	
IV-5B Shortening	
Request: 22,000 tons	
(VI-6, part)	
Offer: 22,000 tons, N.W.	25,300 tons S.W.
IV-5C Oleomargarine	
Request: 22,000 tons	
(VI-6, part)	
Offer: 22,000 tons, N.W.	26,180 tons S.W.
IV-6A Canned Milk	
Request: 8,000 tons	
(IV-7, part)	
Offer: 15,000 tons, N.W. Condensed Milk	18,600 tons S.W.
IV-6B Dried Milk	
Request: 20,000 tons	
(VI-7, part)	
Offer: 35,000 tons N.W.	39,200 tons S.W.
7,000 tons dried whole milk	
28,000 tons non-fat dry milk solids	
IV-6C Dried Eggs	
Request: 40,000 tons	
(VI-7, part)	
Offer: 60,000 tons N.W.	69,000 tons S.W.
IV-6D Cheese	
Request: 10,000 tons	
(VI-7, part)	
Offer: 17,000 tons N.W.	20,910 tons S.W.
12,000 tons natural	
5,000 tons processed	
IV-6E Soya Flour and Grits	
Request: 60,000 tons full-fat soya flour	
(VI-7, part)	
Offer: 60,000 tons N.W. full-fat soya flour	60,600 tons S.W.
IV-6F Fruit and Vegetable Pastes and Purees	
Request: 6,000 tons	
(VI-7, part)	
Offer: 6,000 tons N.W. Tomato Paste	7,500 tons S.W.

U.S.	
Ref. No.	
IV-6G Concentrated Juices	
Request: 2,000 tons	
(VI-7, part)	
Offer: 2,000 tons N.W.	2,280 tons S.W.
1,400 tons Concentrated Orange Juice	
500 tons Concentrated Lemon Juice	
100 tons Concentrated Grapefruit Juice	
IV-6I Dried and Dehydrated Vegetables	
(except Peas and Beans)	
Request: 5,263 tons	
(VI-7, part)	
Offer: 5,263 tons N.W.	7,368 tons S.W.
2,000 tons Dehydrated Onions	
1,000 tons Dehydrated Garlic	
2,000 tons Dehydrated Tomatoes	
157 tons Dehydrated Potatoes	
53 tons Dehydrated Cabbage.	
53 tons Dehydrated Beets	
IV-6J Dried Soups	
Request: 4,300 tons	
(VI-7, part)	
Offer: 4,300 tons N.W.	4,945 tons S.W.
1,000 tons Dehydrated Tomato Soup	
2,000 tons Dehydrated Soya Mix Soup	
1,000 tons Dehydrated Vegetable Mix Soup	
300 tons Dehydrated Chicken Noodle Soup	
IV-6K Concentrated Cereals	
Request: 4,437 tons	
(VI-7, part)	
Offer: 4,437 tons N.W.	5,413 tons S.W.
1,000 tons Oatmeal Cereal	
3,000 tons Buckwheat and Oat Cereal	
437 tons other Concentrated Cereals	
IV-8E Vitamins	
Request: 608.5 tons	
(Supplementary)	
Offer: 608.5 tons N.W.	1,035 tons S.W.
10 tril. USP units (55 tons) Fish oil over 200,000 units per gram	
10 tril. USP units (110 tons) Fish oil under 200,000 units per gram	
15 tons Thiamin (Aneurin, Vit. B <sub>1</sub> ) 2.5 tons Riboflavin (Vit. B <sub>2</sub> )	
100 tons Niacin (Nicotinic Acid)	
1 ton Ergosterol	
175 tons Ascorbic Acid	
600 Mil (150 tons) Multi-vitamin tablets	
IV-8F Yeast	
Request: 1,200 tons	
(Supplementary)	
Offer: 600 tons N.W.	714 tons S.W.
400 tons Bakers' dry action	
200 tons Nutritional tablets	
Additional Foodstuffs and Related Products	
Offer: 30,000 tons dependent upon availability of specific items	36,000 tons S.W.

*Group V.—Machinery and Equipment*

Requests of the U.S.S.R., listed below, total approximately \$1,818,168,000. This total includes \$126,517,000 estimated as undelivered from old orders on June 30, 1944, \$224,369,000 authorized under the terms of the Third Protocol for delivery during the Fourth Protocol period and \$1,467,282,000 of new requests.

Offerings of the United States, listed below, total approximately \$1,132,453,000. Where specific units are mentioned in the following offerings the estimated values are included for memorandum purposes only. Such equipment will be supplied in accordance with the units and types mentioned and the designs and specifications agreed upon by representatives of the two Governments. In all other instances deliveries will be made or orders considered for placement in production up to the actual values shown.

I. Offerings designated by the symbol "I" represent quantities of old orders undelivered from factories as of June 30, 1944, estimated at \$126,517,000 and \$223,229,000 of orders authorized during the Third Protocol period for delivery from factories during the Fourth Protocol period. Offerings in this class will be made available during the period of the Fourth Protocol.

II. In order to assist the U.S.S.R. in maintaining its production for the successful prosecution of the War, the United States will, from time to time during the Protocol period, consider placement of new orders in quantities not to exceed a total of \$300,900,000. The quantities listed below and designated by the symbol "II", will be considered to the extent justified by the overall quantities in production. It is understood that, where feasible, such new orders will be filled from items available from U.S. surpluses or from orders cancelled by other claimants whenever in the judgment of responsible U.S. authorities such items are comparable to those specified by the U.S.S.R., account always being taken of conditions peculiar to the U.S.S.R. which will affect the use of this equipment. It is also understood that where new orders are accepted at a time too far advanced in the Fourth Protocol year for delivery to be effected under the regular Protocol rating, before June 30, 1945, the U.S.S.R. will accept a delivery date after June 30, 1945. On the basis of a continuing review, the U.S. will, from time to time, inform the U.S.S.R. as to the extent to which it will consider new orders under this paragraph. Offerings under this paragraph are for supplies requiring a relatively short period of time to produce or to reproduce, if already constructed.

III. Items designated by the symbol "III" in the following schedules totaling approximately \$481,807,000 represent supplies requested by the Union of Soviet Socialist Republics for its war production programs, which require a long period to produce, or to reproduce if already constructed, and have a long period of useful life. Items under this paragraph will not be financed under the Lend-Lease Act but may be purchased by the U.S.S.R. if it so

elects. All items under this paragraph are also subject to the following conditions.

*Conditions*

1. Individual applications for such equipment will first be reviewed by appropriate U.S. Government agencies.

2. After approval of individual applications it will be necessary for the U.S.S.R. to complete arrangements under which patent or other property rights are protected to the satisfaction of their owners.

3. New production of equipment covered by this offer will not be undertaken whenever in the judgment of responsible U.S. authorities such equipment can be supplied from U.S. surpluses or from cancelled orders, account always being taken of conditions peculiar to the U.S.S.R. which will govern use of the equipment.

4. Approval for new production will be given only to the extent that equipment required for U.S. programs of comparable urgency is being approved and priority ratings, where required, will correspond to ratings granted such U.S. programs.

5. The U.S. will not undertake to effect delivery of the equipment during a fixed time period.

U.S.

Ref. No.

V-1 Engines and Turbines, General Purpose

Request: \$5,368,000

(IV 15)

Offer: I—\$4,368,000

II—\$1,000,000

2,315 tons S.W.

V-2A Compressors (Air and Gases), Marine

Request: \$4,375,000

Offer: II—\$4,375,000—1,224 units

V-2B Compressors (Air and Gases), Other

Request: \$34,868,000 (including Fan and Blower Equipment, Industrial)

(I-8 part and IV-7E)

Offer: I—\$4,534,000

II—\$4,100,000 including 100 skid-mounted gasoline engine driven 500 C.F.M. (\$1,100,000) 10 to be made available in first half and 90 in second half.

6,076 tons S.W.

See V-6B for Fan and Blower offering.

V-3A Pumps (Liquid), Marine

Request: \$3,041,000

Offer: I—\$1,168,000

II—\$1,873,000—1,421 units

1,174 tons S.W.

V-3B Pumps (Liquid), Other

Request: \$28,571,000

(IV 7F)

Offer: I—\$7,778,000

II—\$1,000,000

7,816 tons S.W.

U.S.

Ref. No.

- V-4 Crushing, Pulverizing, Screening and Mixing Machinery and Equipment  
 Request: \$140,948,000  
 (I A&M 8, II-28 and IV-7G including Mining and Quarrying Machinery, Earth and Rock Boring and Drilling Machinery and Accessories and Well and Blast Hole Drilling Machinery.)  
 Offer: I—\$10,240,000 including V-49 Mining and Quarrying Machinery 13,363 tons S.W.  
 II—\$11,295,000 including V-49 Mining and Quarrying Machinery and 10-25 cu. yd. trailer-mounted Rock Crushers and Screening Plants (\$335,000) to be made available in second half  
 III—\$2,500,000 and one coal washing plant. Additional items are under study  
 See V-50 and V-51 for offering of Earth and Rock Boring and Drilling Machinery and Well and Blast Hole Drilling Machinery.
- V-5 Conveyors and Conveying Systems  
 Request: \$13,927,000  
 (IV 7H including Mine Type Locomotives, Rail Cars and Parts, Industrial Trucks, Tractors, Trailers, Stackers and Accessories)  
 Offer: I—\$1,114,000 1,454 tons S.W.  
 See V-6B, V-7 and V-59B for offerings of Mining Hoists, Industrial Trucks, Tractors, Trailers, Stackers and Accessories and Mine Type Locomotives, Cars and Parts.
- V-6A Winches, etc., Marine  
 Request: \$2,637,000  
 Offer: I—\$97,000 81 tons S.W.  
 II—\$1,340,000—294 units
- V-6B Cranes, Derricks, Hoists and Winches, Other  
 Request: \$98,323,000  
 (I N9, IV-7B, C, and D and \$64,049,000 from IV-7H)  
 Offer: I—\$16,973,000 36,491 tons S.W.  
 \$8,049,000 Mining Hoists  
 \$8,924,000 Other Cranes, Derricks, Hoists and Winches.  
 II—\$9,527,000  
 \$451,000 Mining Hoists  
 \$9,076,000 Other Cranes, Derricks, Hoists and Winches.
- V-7 Industrial Trucks, Tractors, Trailers, Stackers and Accessories  
 Request: See V-5  
 Offer: I—\$788,000—155 units to be made available in first half. 875 tons S.W.  
 II—\$4,046,000—796 units  
 303 units to be made available in first half  
 493 units to be made available in second half
- V-8A Fan and Blower Equipment, Marine  
 Request: \$66,000  
 Offer: I—\$66,000 88 tons S.W.
- V-8B Fan and Blower Equipment, Other  
 Request: See V-2B  
 Offer: I—\$4,234,000 5,674 tons S.W.  
 II—\$3,500,000 not to include turbo-blowers for blast furnaces.  
 III—Items under study.

- U.S.  
Ref. No.
- V-9 Mechanical Power Transmission Equipment  
Request: \$572,000  
(II-28 part)  
Offer: II—\$286,000 Roller chains
- V-10 Bearings  
Request: \$27,337,000  
(IV-12)  
Offer: I—\$15,337,000 5,752 tons S.W.  
II—\$2,000,000
- V-11 Valves and Steam Specialties  
Request: \$21,595,000  
(IV-7J)  
Offer: I—\$4,195,000 5,032 tons S.W.  
II—\$10,805,000
- V-12 Miscellaneous General Purpose Industrial Machinery and Equipment  
Request: \$2,720,000  
(IV-15)  
Offer: I—\$720,000 608 tons S.W.  
II—\$2,000,000
- V-13A1 Electrical Rotating Equipment, Marine  
Request: \$1,772,000  
Offer: I—\$1,772,000 2,277 tons S.W.
- V-13A2 Electrical Rotating Equipment, Excluding Generator Sets, Including Motor Generator Sets, Other  
Request: \$32,628,000  
(IV 3 part)  
Offer: I—\$9,128,000 11,729 tons S.W.  
II—\$6,000,000 subject to types, sizes, and characteristics.
- V-13B1 Generator Sets, Military  
Request: 17,500 units (\$5,080,000)  
Offer: II—2,500 units (\$2,080,000)  
500 (\$750,000) 5 KW in second half  
2,000 (\$1,330,000) 1½ KW  
500 in first half  
1,500 in second half
- V-13B2 Generator Sets, Marine  
Request: \$6,758,000  
Offer: I—\$5,404,000 2,567 tons S.W.  
II—\$1,354,000—691 units
- V-13B3 Generator Sets, Other  
Request: \$286,407,000  
(IV 3 part)  
Offer: I—\$ 74,035,000 35,166 tons S.W.  
II—\$ 34,484,000  
III—\$154,770,000 as follows:  
Complete Stationary Steam Plants  
4—100,000 KW plants with 2—50,000 KW units each.  
1—50,000 KW plant with 1—50,000 KW unit.  
4—50,000 KW plants with 2—25,000 KW units each.  
8—6,000 KW plants with 1—6,000 KW unit each.

U.S. Ref. No.		
	Steam Turbines Only	
	2—50,000 KW units	
	23—25,000 KW units	
	12—12,000 KW units	
	15—6,000 KW units	
	14—3,000 KW units	
	Back Pressure Power Plants	
	9—1500 to 1650 KW units	
	Hydro-Electric Plants	
	1 plant of 9 units for Dneprostoi	
	Financial assistance of the Lend-Lease Act will be provided for the first three (3) units of this nine unit project. The remaining 6 units, although programmed together with those financed under the Lend-Lease Act, must be obtained with other resources	
	1 37,000 KW plant with 2—18,500 KW units	
	1 11,000 KW plant with 1—11,000 KW unit	
	1 75,000 KW plant with 2—37,500 KW units	
	1 96,000 KW plant with 4—24,000 KW units	
	1 48,000 KW plant with 2—24,000 KW units	
	1 24,000 KW plant with 1—24,000 KW unit	
V-14	Primary Electric Power Transmission and Distribution Equipment	
	Request: \$42,653,000 including secondary Distribution Equipment and wiring devices	
	Offer: I—\$4,771,000 include V-16 A+B	2,338 tons S.W.
	II—\$10,276,000 include V-16 A+B	
V-15	Power Conversion Equipment (Non-rotating rectifiers)	
	Request: \$9,744,000 (IV-3 part)	
	Offer: I—\$1,073,000	525 tons S.W.
	II—\$5,000,000	
V-16A	Secondary Electric Distribution Equipment and Wiring Devices, Marine	
	See V-14	
V-16B	Secondary Electric Distribution Equipment and Wiring Devices, Other	
	Request: See V-14	
	Offer: See V-14	
V-17	Motor Starters and Controllers	
	Request: \$15,300,000 (IV 3, part)	
	Offer: I—\$1,957,000	1,810 tons S.W.
	II—\$2,843,000	
V-19	Miscellaneous Electrical Equipment	
	Request: \$600,000 (IV-15)	
	Offer: I—\$321,000	297 tons S.W.
	II—\$279,000 includes 40 metal finding detectors \$100,000	

U.S.

Ref. No.

## V-20 Food Products Machinery

Request: \$22,276,000

(IV 7M and 13)

Offer: I—\$224,000

47 tons S.W.

II—\$1,700,000 (equipment for existing plants only)

III—\$5,000,000 as follows:

26 complete vegetable dehydration plants

4 complete spray process drying plants

20 presses for briquetting dry vegetables

3 complete vacuum installations with vacuum pans

2 continuous automatic potato chip and Julienne machinery

(Financial assistance of the Lend-Lease Act will not be extended for this item.)

5 lines for drying and processing vegetables and fruits.

Additional items under study.

## V-21 Textile Industries Machinery

Request: \$6,913,000

(IV 7 M)

Offer: I—\$13,000

6 tons S.W.

II—0

III—Under study

## V-22 Pulp and Paper Industry Machinery

Request: \$6,000

Offer: I—\$6,000

10 tons S.W.

## V-23 Printing Trades Machinery and Equipment

Request: \$150,000

(IV 7M)

Offer: I—\$7,000

6 tons S.W.

II—\$100,000 Additional quantities under study

## V-25 Woodworking Machinery

Request: \$3,309,000

(IV 7M)

Offer: I—\$309,000

405 tons S.W.

II—\$1,000,000

III—Items under study

## V-26 Metal Melting and Heating Furnaces

Request: \$12,640,000

(IV 5)

Offer: I—\$5,140,000

5,474 tons S.W.

II—\$2,860,000

## V-27 Roasting, Sintering, Blast and Reverberatory Furnaces

Request: \$34,743,000

(IV 4 part)

Offer: I—\$4,743,000

4,956 tons S.W.

II—0

III—\$30,000,000 as follows:

Equipment for 8 blast furnaces 42 air and gas blowers

Equipment for 20 open-hearth furnaces

4 Bessemer converters

2 Bessemer mixers

8 units ore sintering equipment

Miscellaneous Equipment for production of non-ferrous metal  
miscellaneous by-product, refinery and tar distillation  
equipment

U.S.

Ref. No.

## V-28 Foundry Equipment

Request: \$2,594,000

(IV 4 part)

Offer: I—\$1,544,000

1,536 tons S.W.

II—\$1,000,000

## V-29 Special Industry Furnaces, Kilns and Ovens

Request: \$12,027,000

(IV-4 part)

Offer: I—\$2,027,000

3,314 tons S.W.

II—\$0

III—\$10,000,000 Equipment for ten coke oven batteries.

## V-30A Petroleum Refinery Plants

Request: \$39,000,000

(IV 6D &amp; R)

Offer: I—\$29,000,000 Specific items ordered prior to June 30, 1944, 105,162 tons S.W.

II—0

III—Items under study

## V-30B Petroleum Refinery Machinery and Equipment

Request: \$25,000

Offer: I—\$25,000

28 tons S.W.

## V-31 Special Machinery for the Glass Industry

Request: \$9,357,000

(IV 6Q)

Offer: I—\$1,357,000

2,042 tons S.W.

II—0

III—\$8,000,000—one continuous plate glass manufacturing plant (Financial assistance of the Lend-Lease Act will not be extended for this item)

## V-32 Special Machinery for Chemical Manufacturing Industry

Request: \$79,901,000

(IV 6A through G and F through P)

Offer: I—\$1,011,000

1,521 tons S.W.

II—\$1,500,000 equipment for existing plants only

III—\$90,090,000 as follows:

2 complete plants for production of nitric acid (\$34,000,000)

1 complete plant for production of synthetic ammonia (\$3,500,000)

1 complete plant for production of synthetic phenol (\$4,500,000)

2 complete plants for production of synthetic acetone and butyl alcohol (\$3,000,000)

1 complete plant for production of ethyl alcohol (\$5,000,000)

1 complete plant for production of styrene (\$5,000,000)

1 complete plant for production of acetic acid (glacial) (\$250,000)

1 complete plant for production of glucose (\$500,000)

1 complete coke benzol plant (\$800,000)

U.S.  
Ref. No.

- 1 complete plant for production of asphalt roofing (\$700,000)
- 1 complete plant for production of urea (\$700,000)
- 1 complete plant for production of electrolytic hydrogen (\$90,000)
- 1 complete plant for the regeneration of sulphuric acid (\$500,000)
- 1 complete installation for production of cellulose acetate (\$1,350,000)
- 1 complete installation for production of synthetic varnish (\$500,000)
- 1 complete installation for production of synthetic soap detergent (\$2,000,000)
- 1 complete installation for production of chlorine by the electrolytic method (\$500,000)
- 1 complete plant for production of catalysts for cumene process (\$200,000)
- 1 complete plant for production of catalyst for hydrogenation process (\$400,000)
- Hydro-stabilization units for hydrogen plants (\$400,000) (Girbitol units)
- 1 plant for production of Butadiene by Houdry method (\$7,000,000) capacity 15,000 tons a year
- 2 plants for the production of synthetic rubber (neoprene) (\$15,000,000) capacity 10,000 tons a year for one plant and 15,000 tons a year for the second. The installation will include facilities for manufacturing hydrochloric acid and acetylene.
- 1 installation for the production of phthalic anhydride (\$700,000), 3,000 tons a year capacity
- 1 plant for the production of Houdry catalysts (\$500,000) capacity to be adequate to meet requirements of four Houdry units in operation in U.S.S.R. or presently being produced in the U.S.A. for use in the U.S.S.R.
- Raw Film and Paper producing equipment (\$3,000,000). Financial assistance of the Lend-Lease Act will not be extended for this item.

V-33 Gas Generating, Conditioning and Other Gas Producing Apparatus

Request: \$21,398,000

(I N13D and IV 6S)

Offer: I—\$6,548,000

II—\$11,540,000 units with capacity up to and including 100 CM per hour.

III—\$3,310,000 2 units—3500 to 5000 CM per hour capacity.

5,533 tons SW.

U.S.

Ref. No.

V-34A Miscellaneous Special Industry Machines

Requests: \$78,747,000

(IV 6Q)

Offer: I—\$997,000

1,500 tons S.W.

II—\$1,500,000 equipment for existing radio tube manufacturing plants only.

III—\$76,250,000 as follows:

- 4 plants for production of roofing and wall tile (\$2,400,000)<sup>3</sup>
- 5 plants for production of piping (\$3,000,000)<sup>3</sup>
- 2 plants for production of roofing and facing tile (\$1,600,000)<sup>3</sup>
- 5 plants for production of sheets and planks for interior finish (\$3,500,000)<sup>3</sup>
- 13 plants for production of loose and rolled wool and insulating cork for piping (\$5,850,000)<sup>3</sup>
- 1 plant for production of floor tile and linoleum (\$600,000)<sup>3</sup>
- 1 plant for production of rolls and shingles (\$1,250,000)<sup>3</sup>
- 3 plants for production of gypsum for making gypsum parts (\$600,000)<sup>3</sup>
- 1 plant for production of wall blocks (\$200,000)<sup>3</sup>
- 18 plants for production of plywood 2 to 55 mm thick (\$12,600,000)<sup>3</sup>
- 18 plants for production of windows, doors, sashes, wood flooring and other details for housing construction (\$6,300,000)<sup>3</sup>
- 5 plants for production of insulating board or panel (\$3,250,000)<sup>3</sup>
- 2 plants for production of ceramic hollow tile and roofing tile (\$1,600,000)<sup>3</sup>
- 2 plants for production of toilet bowls, lavatories, kitchen sinks, facing and tile (\$1,600,000)<sup>3</sup>
- 33 plants for production of slag and cinder blocks (\$4,950,000)<sup>3</sup>
- 3 plants for production of metal structures for bridges and industrial buildings (\$7,500,000)<sup>3</sup>
- 3 plants for production of toilet bowls, kitchen ranges, lavatories, kitchen sinks, etc. (\$2,400,000)<sup>3</sup>
- 2 plants for production of builders' hardware (\$2,000,000)<sup>3</sup>
- Equipment for manufacturing of radio tubes (\$14,500,000)
- 1 shop for repair of precision instruments (\$550,000)<sup>3</sup>

V-35 Machine Tools

Request: \$265,000,000

(IV 1)

Offer: I—\$30,000,000

18,750 tons S.W.

II—\$90,000,000

<sup>3</sup> Financial assistance of the Lend-Lease Act will not be extended to these items. [Footnote in original.]

U.S.	
Ref. No.	
V-36 Rolling Mills and Auxiliary Equipment	
Request: \$92,172,000	
(IV 2)	
Offer: I—\$12,172,000	20,510 tons S.W.
II—0	
III—\$80,000,000 as follows:	
2—40" Blooming mills	
1—40" Bloom mill with 28"—32" continuous billet mill	
1—26" Bar and structural mill	
1—14"—10" Merchant mill	
1—28/32" Bar mill	
1—72" Plate mill	
1—Shape mill	
5—Small strip stands	
1—Steiffel mill 3"—8 $\frac{5}{8}$ "	
2—Steiffel mill 5"—14"	
15—Tube reducing machines	
V-37 Drawing Machines	
Request: \$1,950,000	
(IV 15)	
Offer: I—\$950,000	921 tons S.W.
II—\$1,000,000	
V-39 Secondary Metal Forming and Cutting Machinery and Equipment	
Request: \$85,528,000	
(IV 2)	
Offer: I—\$15,500,000	23,405 tons S.W.
II—\$3,500,000	
III—\$1,270,000 as follows:	
1—8,000 ton bending press	
1—4,500 ton flanging press	
1—1,500 ton straightening press	
Additional items under study.	
V-40A Welding Machinery—Marine	
Request: \$10,000	
Offer: II—\$10,000	
V-40B Welding Machinery—Other	
Request: \$17,483,000	
(IV 71)	
Offer: I—\$4,583,000	3,804 tons S.W.
II—\$3,000,000	
V-41 Testing and Measuring Machines (Metal-working)	
Request: \$3,735,000	
(IV 8)	
Offer: I—\$1,835,000	808 tons S.W.
II—\$665,000	
V-43A Portable Metalworking Machines and Tools (Power Driven—Marine Underwater Types)	
Request: \$943,000	
Offer: I—\$143,000	70 tons S.W.
II—\$800,000	

U.S.

Ref. No.

- V-43B Portable Metalworking Machines and Tools (Power Driven),  
Other  
Request: \$1,250,000  
(IV 15)  
Offer: I—\$477,000  
II—\$773,000  
236 tons S.W.
- V-44A Cemented Carbide Cutting Tools for Machine Tools  
Request: \$5,350,000  
(IV 9)  
Offer: I—\$1,350,000  
II—\$1,050,000  
115 tons S.W.
- V-44B Metal Cutting Tools—Including Threading Tools and Metal  
Cutting Hack and Band Saw Blades, Hand and Machine Operated  
Request: \$27,462,000  
(IV 9)  
Offer: I—\$10,962,000  
II—\$4,038,000  
2,631 tons S.W.
- V-45 Cutting and Forming Tools for Metal Forming Machines  
Request: \$13,000  
Offer: I—\$13,000  
3 tons S.W.
- V-46 Attachments and Accessories for Machine Tools  
Request: \$3,598,000  
(IV 15)  
Offer: I—\$2,348,000  
II—\$1,250,000  
1,621 tons S.W.
- V-46 Tool Room Specialties and Attachments and Accessories for  
Other Metal Working Tools  
Request: \$4,000  
Offer: I—\$4,000  
3 tons S.W.
- V-48 Agricultural Machinery and Implements Except Tractors  
Request: \$190,000  
Offer: I—\$190,000  
360 tons S.W.
- V-49 Mining and Quarrying Equipment  
Request: See V-4  
Offer: See V-4
- V-50 Earth and Rock Boring and Drilling Machinery and Accessories  
Request: See V-4  
Offer: I—\$2,013,000  
II—\$136,000—260 tons drill rods and couplings  
2,939 tons S.W.
- V-51 Well and Blast Hole Drilling Machinery  
Request: See V-4  
Offer: I—\$2,180,000  
3,009 tons S.W.

- U.S.  
Ref. No.
- V-52A Excavating and Dredging Machinery and Equipment  
Request: \$32,128,000  
(IV-7A and I-8 part)  
Offer: I—\$9,818,000  
II—\$4,872,000—398 units as follows: 19,488 tons S.W.
- 200 Crawler Shovels and Cranes (\$4,219,000)
    - 104 Class 3 (\$1,768,000)
      - 50 in first half
      - 54 in second half
    - 21 Class 4 (\$441,000)
      - 10 in first half
      - 11 in second half
    - 15 Class 5 (\$720,000)
      - 5 in first half
      - 10 in second half
    - 30 Class 11, Mobile (\$660,000)
      - 10 in first half
      - 20 in second half
    - 30 Class 12, Mobile (\$630,000)
      - 10 in first half
      - 20 in second half
    - 100 Hammers, pneumatic or steam pile driver, double acting, 5,000 lbs. (\$146,000)
      - 10 in first half
      - 90 in second half
    - 78 Road Scrapers, towed type, cable operated, 8 cu. yds. type III without tractor (\$335,000)
      - 28 in first half
      - 50 in second half
    - 20 Ditching Machines, crawler mounted gasoline engine driven (\$172,000)
      - 10 wheel type, digging depth 5' 6" width 23" (\$72,000) in second half
      - 10 ladder type, digging depth 8' width 18" to 24" (\$100,000) in second half
- V-53 Miscellaneous Construction Equipment  
Request: \$1,200,000  
(IV-7M)  
Offer: II—\$800,000
- V-55 Miscellaneous Machinery  
Request: \$255,000  
Offer: I—\$255,000 265 tons S.W.
- V-58B Teletype Apparatus  
Request: \$2,333,000  
(I A & M 16)  
Offer: I—\$888,000  
II—\$1,308,000 225 tons S.W.
- I and II include equipment valued at (\$2,058,000) as follows:
    - 550 teletypewriters Model 15 (\$605,000) in second half
    - 300 teletypewriters Model 19 (\$600,000) in second half

U.S.  
Ref. No.

400 telegraph printer sets EE-97 (\$540,000)  
185 in first half  
215 in second half  
High speed keying equipment (\$313,000) in second half

V-58C1 Field Telephones

Request: 100,000 (\$5,000,000)  
(IA and M17)  
Offer: II—100,000 (\$5,000,000) EE8 Soviet type  
30,000 in first half  
70,000 in second half

V-58C2 Other Telephone and Telegraph Equipment

Request: \$15,651,000  
(IA and M19, 20 and 21)  
Offer: I—\$9,211,000 4,422 tons S.W.  
II—\$1,110,000 as follows:  
300 telephone central office sets TC-4 (\$360,000)  
150 in first half  
150 in second half  
20 3-channel telephone carrier package C with  
power units PE-95 (\$750,000) in second half

V-58D Sound Equipment (Public Address, Recording and Reproducing)

Request: \$43,000  
Offer: I—\$43,000 21 tons S.W.

V-58E Automatic Block Signal System

Request: \$12,809,000  
(IV-7L)  
Offer: I—\$2,809,000 980 tons S.W.  
II—\$0  
III—\$10,000,000 as follows:  
1,600 KM double-track steam road floating charge  
system with conventional track circuits and wire  
line circuits  
200 KM double-track steam road coded track circuits  
without line wire  
340 KM double-track electric traction road, A.C.  
signalling

V-59A Industrial Type Locomotive, Cars and Parts

Request: \$6,293,000  
(IV-7H)  
Offer: I—\$3,293,000 including 116 units (\$677,000) as follows: 4,973 tons S.W.  
16 steam locomotives (\$512,000) 27 ton, 0-8-0, 750  
mm. ga. in first half  
50 dump cars (\$90,000) 20 ton 750 mm. ga. in first  
half  
50 flat cars (\$75,000) 12 ton 750 mm. ga. in first  
half

V-59B Mine Type Locomotives, Rail Cars and Parts

Request: See V-5  
Offer: I—\$885,000 2,673 tons S.W.  
II—\$975,000 (not to include locomotives)

- U.S.  
Ref. No.
- V-60 Passenger Vehicles and Parts  
Request: \$190,000  
Offer: I—\$65,000 55 tons S.W.  
II—\$125,000  
200 Chevrolets in first half
- V-61 Air Conditioning and Refrigeration Equipment  
Request: \$1,005,000  
Offer: I—\$12,000 11 tons S.W.  
II—\$993,000 as follows:  
80 ice plants, 1 ton (\$117,000)  
50 in first half  
30 in second half  
95 ice plants, 3.6 ton (\$293,000)  
65 in first half  
30 in second half  
50 prefabricated refrigerating warehouses, (620 cu. ft.) (\$90,000) in first half  
100 refrigerated semi-trailers (\$493,000)  
50 in first half  
50 in second half
- V-62A Lighting Fixtures—Marine  
Request: \$748,000  
Offer: I—\$644,000 209 tons S.W.  
II—\$2,000—50 navigation sidelights
- V-62B Lighting Fixtures—Other  
Request: \$1,094,000  
Offer: I—\$94,000 61 tons S.W.  
III—\$1,000,000—Studio lighting equipment. Financial assistance of the Lend-Lease Act will be not extended for this item.
- V-63 Photographic Equipment  
Request: \$6,036,000  
(IV-7M)  
Offer: I—\$36,000 10 tons S.W.  
III—\$3,500,000—Sound recording equipment, motion picture cameras and accessories, film processing equipment, cutting equipment, and projection equipment. Financial assistance of the Lend-Lease Act will not be extended for this item.
- V-64A Optical, Indicating, Recording and Control Instruments Except Radio and Radar Test Equipment, Aircraft Engine and Flight Instruments and Nautical and Navigation Instruments and Apparatus  
Request: \$11,089,000  
(IV-8 part)  
Offer: I—\$2,035,000 743 tons S.W.  
II—\$2,965,000—not to exceed 20% electrical equipment.  
III—\$500,000—Control and Measuring equipment for motion picture production. Financial assistance of the Lend-Lease Act will not be extended for this item.

U.S.  
 Ref. No.

V-64B Navigation Instruments  
 Request: \$3,006,000  
 Offer: I—\$6,000  
       II—\$3,000,000  
 5 tons S.W.

V-65 Professional and Scientific Instruments Except Dental, Medical, Surgical, Operating Room Equipment, Other Hospital Equipment and X-Ray Equipment, Medical and Dental  
 Request: \$1,585,000  
 (IV 8 part)  
 Offer: I—\$928,000  
       II—\$500,000  
 107 tons S.W.

V-67 Hand Tools, Non-Powered Except Dies, Taps, Hack and Band Saw Blades  
 Request: \$867,000  
 Offer: I—\$867,000  
 286 tons S.W.

V-68 Mechanics' Measuring Tools  
 Request: \$8,037,000  
 (IV 9)  
 Offer: I—\$3,032,000  
       II—\$218,000  
 1,000 tons S.W.

V-69A Boilers, Marine  
 Request: \$168,000  
 Offer: I—\$81,000  
       II—\$87,000—25 units  
 12 tons S.W.

V-69B Power Boilers, Other  
 Request: \$16,394,000  
 (IV 3 part)  
 Offer: I—\$7,000,000  
       II—\$2,040,000  
       III—\$5,617,000  
 10,570 tons S.W.

V-70 Agricultural Tractors Except Track-Laying  
 Request: \$9,375,000 (5,000 Diesel track-laying) (Supplementary)  
 Offer: II—\$5,000,000—5,000 steel wheel, equipped to burn kerosene or distillate in models and sizes available from U.S. production.

Other Machinery and Equipment  
 Request: \$50,798,000  
 (IV 15 balance)  
 Offer: II—\$25,000,000 representing additional offerings in categories for which no specific offerings are shown above or increases in specific offerings where such offerings are found to be inadequate to meet urgent unforeseen requirements.

Estimated Shipping Weight of Offerings Designated "II" Above Expected to Become Available During the Protocol Period  
 131,941 tons S.W.

*Group VI.—Other Materials and Products*

U.S.  
Ref. No.  
VI-1 Steel

Request: 951,486 tons including 50,000 tons requested of Canada  
(II-16 to 27 incl. and II-28 part)

Offer: 860,421.5 tons N.W. as follows:

877,300 tons S.W.

VI-1-10	24,000 tons	Copper Clad Strip
VI-1-16A	140 tons <sup>4</sup>	Polished Drill Rods, plain carbon
VI-1-16B	140 tons <sup>4</sup>	Polished Drill Rods, high speed alloy
VI-1-16C	200 tons <sup>4</sup>	Polished Drill Rods, plain alloy
VI-1-17	6,700 tons <sup>4</sup>	High Speed Tool Steel, alloy
VI-1-18A	6,280 tons <sup>4</sup>	Tool Steel, plain carbon
VI-1-18B	1,000 tons <sup>4</sup>	Tool Steel, alloy X-12
VI-1-18C	1,500 tons <sup>4</sup>	Tool Steel, alloy X-12M
VI-1-18D	9,500 tons <sup>4</sup>	Tool Steel, other alloy
VI-1-19E	10,000 tons <sup>4</sup>	Cold Finished Bars, electric and BOH alloy
VI-1-19F	43,000 tons	Cold Finished Bars, SAE 1015-1050 and other plain carbon
VI-1-20	70,000 tons <sup>4</sup>	H.R. Alloy Bars and Plates
VI-1-21	15,000 tons <sup>4</sup>	Cr-Si-Mn Billets (alloy)
VI-1-22	17,000 tons	Cold Rolled Sheets, carbon
VI-1-22A	9,000 tons	Cold Rolled Strip, carbon
VI-1-23A	3,000 tons <sup>4</sup>	Stainless Steel Sheets and Plates
VI-1-23C	1,000 tons <sup>4</sup>	Stainless Steel Bars
VI-1-24	50,000 tons	Tinplate, carbon
VI-1-25A	500 tons <sup>4</sup>	Ball Wire, alloy
VI-1-25B	800 tons <sup>4</sup>	Chrome Vanadium Wire (alloy)
VI-1-25C	800 tons <sup>4</sup>	Alloy Wire 4140
VI-1-25D	200 tons	Music Wire, carbon
VI-1-25E	1,300 tons	Spring Wire, carbon
VI-1-25F	2,000 tons	Rope Wire, carbon
VI-1-25G	200 tons	Card Wire, carbon
VI-1-25I	15,000 tons	Galvanized Tel. and Tel. Wire
VI-1-25J	10,700 tons	Low Carbon Wire
VI-1-25K	100 tons	Square Wire, carbon
VI-1-25M	2,000 tons	Miscellaneous Carbon Wire
VI-1-26A	10,000 tons	Wire Rope
VI-1-27A	1,950 tons	Alloyed Tubes 18% Cr.-8% Nickel
Subject to receipt of satisfactory specifications and in addition to undelivered balances as of June 30, 1944, of stainless tubing and hot rolled ball bearing tubing.		
VI-1-27B	7,000 tons <sup>4</sup>	Alloyed Tubes, 4-6% Cr.
VI-1-27C	4,360 tons	Alloyed Tubes, carbon 5% Molybdenum, pipe size
VI-1-27E	2,200 tons <sup>4</sup>	Steel Alloyed Tubes, carbon 5%, H.R. tubes
VI-1-27F	4,500 tons <sup>4</sup>	H. R. Ball Bearing Tubes, alloy
In addition to undelivered balances as of June 30, 1944, of stainless tubing and hot rolled ball bearing tubing.		
VI-1-28	2,000 tons <sup>4</sup>	Stainless Steel Wire
VI-1-29	1,000 tons <sup>4</sup>	Special Alloy Steel Wire
VI-1-32B	1,000 tons	Seamless Press. and Mech. Tubing, Carbon
VI-1-32C	4,000 tons	C.D. Press. and Mech. Tubing, carbon
VI-1-32D	10,000 tons	Hot Finished Press. and Mech. Tubing, carbon
VI-1-32F	15,000 tons	Electrical Weld Line Pipe, carbon
VI-1-32G	20,000 tons	Seamless and Electric Weld Casing, carbon

<sup>4</sup>To be reduced by quantities supplied by the United Kingdom and Canada. [Footnote in original.]

U.S.		
Ref. No.		
VI-1-32H	12,000 tons	Seamless and Electric Weld Line Pipe, carbon
VI-1-32I	6,600 tons	Seamless Drill Pipe, carbon
VI-1-32J	5,000 tons	Seamless and Electric Weld Oil Well Tubing, carbon
VI-1-32K	1,751.5 tons	Tool Joints
VI-1-33A	40,000 tons	H. R. Sheets, carbon
VI-1-33B	16,000 tons	H. R. Galvanized Roofing Sheets, carbon
VI-1-33C	20,000 tons	H. R. Plates, carbon
VI-1-33D	8,000 tons	H. R. Bars and Bar Mill Shapes, carbon
VI-1-33E	30,000 tons	H. R. Structural Shapes, carbon
VI-1-33F	6,000 tons	H. R. Hoopes and Strip, carbon
VI-1-33G	5,000 tons	H. R. Terne Plate and Long Ternes, carbon
VI-1-34	6,000 tons	Wire Nails and Tacks
VI-1-101A&B	300,000 tons	R. R. Rails and Accessories
Additional quantities will be supplied by other parties to the Protocol.		
VI-1-104	20,000 tons	Locomotive Car Wheel Tires
VI-2D Ferro-Vanadium		
Request: 1,200 tons		
(II 13)		
Offer: 200 tons N.W.		214 tons S.W.
Other Parties to the Protocol will supply the balance.		
VI-2E Ferro-Tungsten		
Request: 1,500 tons		
(II 15)		
Offer: 560 tons N.W.		571 tons S.W.
Other parties to the Protocol will supply the balance.		
VI-2F Ferro-Molybdenum		
Request: 1,200 tons		
(II 14)		
Offer: 1,200 tons N.W.		1,284 tons S.W.
Copper Contained		
Request: 150,000 tons		
(II 6)		
Offer: As contained in offerings under VI-3A1, A2, A3, and A4 below.		
VI-3A1 Electrolytic Copper		
Request: 60,000 tons		
(II 6)		
Offer: 0		
Will be supplied by other parties to the Protocol.		
VI-3A2 Copper Tubes, Etc.		
Request: 5,000 tons		
(II 8)		
Offer: 5,000 tons N.W.		5,750 tons S.W.
VI-3A3 Copper Base Alloys		
Request: 80,000 tons		
(II 9)		
Offer: 80,000 tons N.W.		82,400 tons S.W.
VI-3A4 Bare Copper Cable and Wire		
Request: 20,000 tons		
(II 10)		
Offer: 19,000 tons N.W. (copper content)		19,190 tons S.W.

U.S.	
Ref. No.	
VI-3B Aluminum—All Shapes	
Request: 87,200 tons (17,200 tons from request on Canada)	
(II 1)	
Offer: 87,200 tons N.W.	88,950 tons S.W.
Additional quantities will be supplied by other parties to the Protocol.	
VI-3C Magnesium Metal	
Request: 4,000 tons	
(II 4)	
Offer: 4,000 tons N.W.	4,000 tons S.W.
Nickel Contained in Products	
Request: 2,000 tons	
(II 3 part)	
Offer: 2,000 tons N.W. maximum	
As contained in Steel VI-1 and other products containing nickel.	
VI-3D1 Pig Nickel	
Request: 11,000 tons	
(II 3)	
Offer: 5,480 tons N.W.	5,754 tons S.W.
VI-3D3&4 Resistance Wire and Strip (Nickel Chromium)	
Request: 600 tons	
(II 11)	
Offer: 538 tons N.W.	600 tons S.W.
VI-3D5&6 Nickel Foil and Other Pure Nickel Shapes	
Offer: 28 tons N.W. (old orders only)	35 tons S.W.
VI-3E1 Tin	
Offer: 5 tons N.W. (old orders only)	1 ton S.W.
VI-3F Zinc	
Request: 10,000 tons	
(II 7)	
Offer: 0	
Will be supplied by other parties to the Protocol.	
VI-3G Lead	
Request: 20,000 tons (from request upon U.K. and Canada)	
Offer: 20,000 tons N.W.	21,000 tons S.W.
VI-3H1 Cadmium	
Request: 224 tons (from request upon Canada)	
Offer: 224 tons N.W.	235 tons S.W.
VI-3H3 Cobalt	
Request: 180 tons	
(II 2)	
Offer: 90 tons N.W.	95 tons S.W.
Additional quantities to be supplied by other parties to the Protocol.	
VI-4A Molybdenum Concentrates	
Request: 4,480 tons	
(II 5)	
Offer: 4,480 tons N.W.	4,794 tons S.W.

- U.S.  
Ref. No.
- VI-6A1 Marine Cable  
Request: 1,200 km.  
(I A&M 24)  
Offer: See VI-6A4
- VI-6A2 Submarine Cable  
Request: 600 km.  
(I A&M 23)  
Offer: See VI-6A4
- VI-6A3 Field Telephone Wire  
Request: 250,000 miles  
(I A&M 18)  
Offer: 186,000 miles WS-1/TS 12,830 tons S.W.  
Delivery schedule not yet available
- VI-6A4 Other Insulated Wire and Cable  
Request: 4,000 km.  
(IV 14)  
Offer: "Marine Cable," VI-6A1, "Submarine Cable," VI-6A2, 80,000 tons S.W.  
and "Other Insulated Wire and Cable," VI-6A4, containing  
12,000 tons N.W. of copper
- VI-6A5 Copper Magnet Wire  
Request: See VI-6G  
Offer: See VI-6G
- VI-6B1 Wire Cloth and Screen  
Offer: \$385,000 (old orders only) 193 tons S.W.
- VI-6B2 Wire Netting and Fencing  
Request: 450 tons  
(II 28)  
Offer: 450 tons N.W. 508 tons S.W.
- VI-6C Fabricated Structural Iron and Steel  
Offer: 1,237 tons (old orders only) 1,237 tons S.W.
- VI-6D Chains and Attachments  
Request: 4,280 tons  
(II 28)  
Offer: 4,280 tons N.W. 4,280 tons S.W.
- VI-6E Bolts, Nuts, Screws, Washers, Rivets  
Request: 8,000 tons  
(II 28)  
Offer: 8,000 tons N.W. 8,320 tons S.W.
- VI-6F Other Fabricated Metal Basic Products  
Request: 200 tons shoe nails  
(II 28)  
Offer: \$26,500 from old orders and 200 tons N.W. shoe nails. 232 tons S.W.  
See offer for "Other Materials, including Metals and their  
Products"
- VI-6G Special Fine Wires, Strip, etc.  
Request: 600 tons  
(II 12)  
Offer: Consideration will be given to the supply of 336 tons 386 tons S.W.  
(including copper magnet wire VI-6A5) subject to acceptable  
specifications and arrangement of production schedules

U.S.	
Ref. No.	
VI-6H Sucker Rods	
Request: 4,000 tons	
(II 28)	
Offer: 4,000 tons N.W.	5,080 tons S.W.
VI-7A Anchors	
Request: 1,002 tons	
(II 28)	
Offer: 1,002 tons N.W.	1,002 tons S.W.
VI-7B Other Metal End Products	
Offer: \$135,600 (old orders only)	21 tons S.W.
See offer for "Other Materials, including Metals and their Products"	
Other Metals and Products	
Request: 12,068 tons	
(II 28, balance)	
Offer: See offer for "Other Materials, including Metals and their Products."	
VI-9A Aviation Gasoline Over 99 Octane from U.S. <sup>5</sup>	
Request: 100,000 tons	
(II 29)	
Offer: 100,000 tons—100 Octane	75,000 tons S.W.
75,000 tons in bulk	liquid cargo in
25,000 tons N.W. in drums	bulk
(To be made available as shipped)	28,250 tons S.W.
	dry cargo
VI-9E Gasoline Blending Agents from U.S.	
Request: 300,000 tons	
(II 29)	
Offer: 300,000 tons alkylates	288,000 tons S.W.
288,000 tons in bulk	liquid cargo in
12,000 tons N.W. in drums	bulk
(To be made available as shipped)	13,920 tons S.W.
	dry cargo
VI-9H Lubricating Oils and Greases from U.S.	
Request: 25,000 tons	
(II 29)	
Offer: 25,000 tons	20,000 tons S.W.
20,000 tons in bulk	liquid cargo in
5,000 tons N.W. in drums	bulk
(To be made available as shipped)	5,650 tons S.W.
	dry cargo
VI-9J Chemical Additives from U.S.	
Request: 1,000 tons	
(II 29)	
Offer: 1,000 tons N.W.	1,130 tons S.W.
(To be made available as shipped)	dry cargo

<sup>5</sup> Quantities of aviation gasoline and blending agents offered by the United States will be reduced to the extent that such materials are furnished to the U.S.S.R. from Abadan by the U.K. without replacement to the U.K. from U.S. controlled sources.

The U.S. reserves the right to reduce quantities of blending agent on a ton for ton basis to compensate for any increase of supply from the U.S. over 100,000 tons of aviation gasoline over 99 octane. [Footnote in original.]

U.S. Ref. No. VI-9B, C, D, F, G, I, and K Other Petroleum Products from U.S. Request: 74,000 tons (II 29) Offer: 74,000 tons 60,000 tons in bulk 14,000 tons N.W. in drums (To be made available as shipped)	60,000 tons S.W. liquid cargo in bulk 15,820 tons S.W. dry cargo
VI-9 Petroleum Products from Abadan Request: 300,000 tons (II 29) Offer: 300,000 tons to be delivered for U.S. account from U.K. stocks at Abadan and to be replaced to U.K. by U.S. (Dependent upon ability to provide type of product requested.)	
VI-10A6 Calcium Carbide Offer: 124 tons N.W. (old orders only)	131 tons S.W.
VI-10A7 Calcium Chloride Offer: 45 tons N.W. (old orders only)	46 tons S.W.
VI-10A8 Caustic Soda Request: 30,000 tons (II 35) Offer: 30,000 tons N.W.	31,800 tons S.W.
VI-10A9 Phosphorus Offer: 175 tons N.W. (old orders only)	177 tons S.W.
VI-10A10 Potassium Carbonate Offer: 56 tons N.W. (old orders only)	60 tons S.W.
VI-10A12 Potassium Dichromate Request: 2,000 tons (includes other Dichromates) (II 44 part) Offer: 1,500 tons N.W.—Dichromates In addition, 500 tons N.W. will be made avail- able for production of Saccharin (VI-10B20) and Resistance Wire (VI-3D3)	1,620 tons S.W.
VI-10A15 Potassium Tetraoxide Request: 350 tons (II 44 part) Offer: 350 tons N.W.	560 tons S.W.
VI-10A17 Sodium Cyanide Request: 1,500 tons (II 44 part) Offer: 900 tons N.W.	972 tons S.W.
VI-10A20 Sodium Dichromate Request: See VI-10A12 Offer: See VI-10A12	
VI-10A99 Miscellaneous Inorganic Chemicals Offer: 607 tons N.W. (old orders only)	700 tons S.W.

U.S.		
Ref. No.		
VI-10B1	Acetone Request: 6,000 tons (II 37) Offer: 6,000 tons N.W.	7,020 tons S.W.
VI-10B4	Butyl Acetate Request: 6,000 tons (II 39) Offer: 4,000 tons N.W.	4,480 tons S.W.
VI-10B5	Butyl Alcohol Request: 8,000 tons (II 38) Offer: 6,000 tons N.W.	6,840 tons S.W.
VI-10B6	Camphor Request: 800 tons (II 43) Offer: 800 tons N.W.	928 tons S.W.
VI-10B7	Casein Request: 1,700 tons (II 41) Offer: 1,700 tons N.W.	1,700 tons S.W.
VI-10B8	Citric Acid Request: 800 tons Offer: 0 Will be supplied by U.K.	
VI-10B10	Dibutylphthalate Request: 2,000 tons (II 44 part) Offer: 1,500 tons N.W.	1,665 tons S.W.
VI-10B14	Diphenylguanidine Offer: 64 tons N.W. (old orders only)	75 tons S.W.
VI-10B15	Ethyl Acetate Request: 5,000 tons (II 40) Offer: 5,000 tons N.W.	5,600 tons S.W.
VI-10B16	Ethyl Alcohol Request: 180,000 tons (II 36) Offer: 180,000 tons N.W. in bulk	180,000 tons S.W. liquid cargo in bulk
VI-10B19	Ethylene Glycol Request: 4,000 tons (II 30) Offer: 4,000 tons N.W.	4,400 tons S.W.
VI-10B21	Furfural Offer: 820 tons N.W. (old orders only)	902 tons S.W.
VI-10B22	Glycerine Request: 4,400 tons (II 34) Offer: 4,400 tons N.W.	5,192 tons S.W.

U.S.  
 Ref. No.

VI-10B23 Hexamine (Urotropine) Request: 4,400 tons (II 33) Offer: 3,000 tons N.W.	3,300 tons S.W.
VI-10B24 Methanol Request: 12,000 tons (II 32) Offer: 9,200 tons N.W. 950 tons in bulk 8,250 tons in drums	950 tons S.W. liquid cargo in bulk 9,075 tons S.W. dry cargo
VI-10B26 Phenol Request: 12,000 tons (II 31) Offer: 12,000 tons N.W.	13,440 tons S.W.
VI-10B27 Potassium Butyl Xanthate Request: 1,350 tons (II 42) Offer: 1,350 tons N.W.	1,485 tons S.W.
VI-10B30 Saccharin Request: 560 tons (II 44) Offer: 372 tons N.W.	446 tons S.W.
VI-10B32 Toluol Request: 40,000 tons (I A&M 12) Offer: 39,574 tons N.W. in bulk	39,574 tons S.W. liquid cargo in bulk
VI-10B34 Paraphenetidin and Paranitrochlorbenzol Request: 200 tons (II 44 part) Offer: 158 tons N.W. 38 tons Paraphenetidin 120 tons Paranitrochlorbenzol	179 tons S.W.
VI-10B99 Miscellaneous Organic Chemicals Offer: 878 tons N.W. (old orders only) See offering "Other Chemicals"	983 tons S.W.
VI-10C Gases Offer: \$9,400 (old orders only)	30 tons S.W.
VI-10D1 Paints, Varnishes, Lacquers, Etc. Offer: 562 tons N.W. (old orders only)	607 tons S.W.
VI-10D2 Carbon and Lamp Black Offer: 2,240 tons N.W. (old orders only)	2,912 tons S.W.
VI-10D3 Other Pigments Offer: 406 tons N.W. (old orders only)	422 tons S.W.
VI-10F Insecticides Offer: 23 tons N.W. (old orders only)	25 tons S.W.
VI-10G2 Vulcanized Fibre Request: 1,000 tons (II 49) Offer: 1,000 tons N.W.	1,180 tons S.W.

U.S.

Ref. No.

VI-10G3 Cellulose Film Base Offer: 2,795,000 ft. (677 tons N.W.) (old orders only)	812 tons S.W.
VI-10G9 Miscellaneous Plastics Offer: 13 tons N.W. (old orders only)	15 tons S.W.
VI-10H1 Ammonia Rubber Paste Offer: 216 tons N.W. (old orders only)	237 tons S.W.
VI-10H2 Ethyl Centralite Request: 800 tons (II 44 part) Offer: 350 tons N.W.	466 tons S.W.
VI-10H3 Boiler Compounds Offer: 51 tons N.W. (old orders only)	57 tons S.W.
VI-10H4 Miscellaneous Flotation Reagents (Aerofloats) Request: 400 tons (II 44 part) Offer: 400 tons N.W.	440 tons S.W.
VI-10H6 Photogelatine Request: 250 tons (II 44 part) Offer: 250 tons N.W.	300 tons S.W.
VI-10H99 Miscellaneous Chemicals Offer: 435 tons N.W. (old orders only)	500 tons S.W.
Other Chemicals Request: 9,700 tons (II 44 balance) Offer: Consideration will be given to the acceptance of orders for 10,200 tons of various chemicals which will be in addition to the offerings listed above.	10,670 tons S.W.
VI-11A Cotton Cloth Request: 25,084,000 yds. including 25,000,000 yds. uniform cloth Offer: 25,000,000 yds. uniform twill and 84,000 yds. calico (old orders)	7,520 tons S.W.
VI-11B Woollen Cloth Request: 21,662,000 yds. (V 4) Offer: 20,712,000 yds. 10,000,000 yds. overcoating, Army type 7,050,000 yds. suiting, Army type 1,750,000 yds. in first half 5,300,000 yds. in second half 1,364,000 yds. Navy type, old orders 2,000,000 yds. Navy type, new orders 298,000 yds. miscellaneous, old orders.	19,443 tons S.W.
VI-11C Webbing Request: 12,000,000 yds. (V 7) Offer: 0 NOTE: Approximately 21,000,000 yds. available for export on June 30, 1944.	

U.S.		
Ref. No.		
VI-11D	Tarpaulin and Duck	
	Request: 3,000,000 yds. 54" to 72" width	
	(V 6)	
	Offer: 3,000,000 sq. yds.	2,833 tons S.W.
	500,000 in first half	
	2,500,000 in second half	
VI-11F	Cordage and Twine	
	Request: 8,000 tons—4,000 tons sisal rope	
	4,000 tons binder twine	
	(II 50)	
	Offer: 4,000 tons N.W. sisal rope	9,200 tons S.W.
	4,000 tons N.W. binder twine	
VI-11G	Other Basic Textiles	
	Offer: \$1,493,000 (old orders only)	960 tons S.W.
VI-12A	Fish Nets	
	Offer: 386 tons N.W. (old orders)	394 tons S.W.
	Additional quantities under study.	
VI-12B	Other Textile Products	
	Offer: \$56,000 (old orders only)	35 tons S.W.
VI-13	Leather	
	Request: 22,000 tons—18,000 tons sole leather	
	4,000 tons retanned upper leather	
	(V 1 & 2)	
	Offer: 11,963 tons N.W.	12,322 tons S.W.
	509 tons N.S. sole leather	
	9,481 tons sole and innersole leather from South America	
	780 tons U.S. upper leather	
	1,193 tons upper leather from South America	
VI-14	End Products of Leather	5 tons S.W.
	Offer: \$8,800 (old orders only)	
VI-15	Crude Rubber	
	Offer: 168 tons N.W. (\$162,000) (old orders only)	170 tons S.W.
	See VI-18C	
VI-16A	Vistanex	
	Offer: 410 tons N.W. (\$336,000) (old orders only)	447 tons S.W.
VI-16B	Other Synthetic Rubber	
	Offer: 112 tons N.W. (\$20,000) (old orders only)	128 tons S.W.
	See VI-18C	
VI-17B	Other Rubber Materials	
	Offer: \$506,000 (old orders only)	1,316 tons S.W.
	See VI-18C	
VI-18A	Tires and Tubes	
	Request: 40,320 tons of rubber in tires and tubes and other rubber products.	
	(II 45)	
	Offer: No firm offer can be made. The U.S. will attempt to supply up to 100,000 tires and tubes each month subject to acceptable size distribution and the maintenance of U.S. production goals.	27,000 tons S.W.
VI-18B	Rubber Hose	
	Request: See VI-18A	
	Offer: \$1,532,000 (old orders only)	1,992 tons S.W.
	See also VI-18C	

U.S.	
Ref. No.	
VI-18C Other Rubber Products	
Request: See VI-18A	
Offer: \$15,320,000	21,448 tons S.W.
\$5,450,000 (old orders only)	
\$9,870,000 (new orders including VI-15, VI-16B, VI-17B, VI-18B, VI-19C, and VI-20D)	
VI-19A Army Boots	
Request: 5,000,000 pair	
(V 3)	
Offer: 5,000,000 pair	13,250 tons S.W.
VI-19C Rubber Boots and Shoes	
Offer: \$125,000 (old orders only)	162 tons S.W.
See VI-18C	
VI-19D Other Boots and Shoes	
Offer: \$952,000 (old orders only)	190 tons S.W.
VI-20A Leather Jackets	
Offer: 20,000 (old orders only)	132 tons S.W.
VI-20B Leather Belts	
Offer: 42,000 (old orders only)	13 tons S.W.
VI-20C Miscellaneous Leather Apparel	
Offer: \$121,000 (old orders only)	42 tons S.W.
VI-20D Rubber Apparel	
Offer: \$27,000 (old orders only)	5 tons S.W.
VI-20E Other Apparel	
Offer: \$496,000 (old orders only)	100 tons S.W.
VI-21A Abrasive Grain	
Request: 4,000 tons	
(IV 9, part)	
Offer: Up to 8,700 tons N.W.	8,790 tons S.W.
VI-21B Abrasive Products	
Request: 6,000 tons	
(IV 9, part)	
Offer: \$6,000,000	4,800 tons S.W.
VI-22A Graphite Powder	
Request: See VI-22B	
Offer: Up to 1,913 tons N.W.	2,085 tons S.W.
VI-22B Graphite and Carbon Electrodes	
Request: 9,000 tons graphite electrodes and other graphite products	
(IV 11)	
Offer: 6,350 tons N.W.	7,810 tons S.W.
VI-22C Other Graphite Materials	
Request: See VI-22B	
Offer: \$550,000	55 tons S.W.
VI-23A Parchment Paper	
Request: 3,000 tons	
(II 47)	
Offer: 1,680 tons N.W.	1,865 tons S.W.
VI-23B Map Paper	
Request: 3,000 tons	
(II 46)	
Offer: 3,000 tons N.W.	3,300 tons S.W.

U.S.	
Ref. No.	
VI-23D Condenser Paper	
Request: 150 tons	
(II 48)	
Offer: 150 tons N.W.	175 tons S.W.
VI-23E Other Pulp, Paper, Etc.	
Request: 4,713 tons	
(IV 13)	
Offer: 4,713 tons N.W.	5,302 tons S.W.
189 tons old orders	
2,912 tons ammunition paper, new orders	
1,368 tons wrapping paper, new orders	
132 tons writing paper, new orders	
112 tons coated white paper, new orders	
New orders subject to acceptable specifications.	
VI-24 Paper Products	
Offer: \$12,000 (old orders only)	25 tons S.W.
VI-25A1 Photographic Film and Paper	
Offer: \$24,000 (old orders only)	140 tons S.W.
VI-25A2 Reproduction Paper Stock	
Request: 824 tons	
Offer: 824 tons N.W.	927 tons S.W.
224 tons old orders	
600 tons new orders	
VI-26B Asbestos Products	
Offer: \$100,000 (old orders only)	140 tons S.W.
VI-27 Buttons	
Offer: \$357,000 (old orders only)	320 tons S.W.
VI-98 Other Basic Materials	
Offer: \$21,000 (old orders only)	20 tons S.W.
VI-99 Other End Products	
Offer: \$10,000 (old orders only)	10 tons S.W.
Other Materials, including Metals and their Products (except Chemicals)	
Request: \$5,000,000	
(IV 13)	
Offer: \$9,575,000 new orders subject to acceptance of specifications, etc., after review by appropriate U.S. agencies where specific offers listed above are found inadequate for the realistic needs of the U.S.S.R.	12,925 tons S.W.

ANNEX III<sup>6</sup>

*Subject to the terms of the Fourth Protocol, of which this is a part, the supplies set forth below are to be made available in addition to those selected from Annex II.*

S.W.—Shipping weight packed for export.

N.W.—Net weight.

All tons are short tons of 2,000 pounds each.

Dollar valuations are estimates only.

<sup>6</sup> Annex III was transmitted by letter of Apr. 26, 1945 from Maj. Gen. John Y. York, Jr., U.S. Army, Executive of the President's Soviet Protocol Committee, to Lt. Gen. L. G. Rudenko, Chairman of the Government Purchasing Commission of the Soviet Union in the United States. [Footnote in original.]

The estimated shipping weights shown below are for those quantities to be made available by June 30 only, and total 798,637 short tons (567,917 short tons dry cargo and 230,720 short tons *liquid cargo* in bulk).

*Group I—Aircraft and Aircraft Equipment*

Estimated shipping weight of quantities to be made available by June 30, 1945—  
78,900 tons

U.S.  
Ref. No.  
I-1F Flying Boats—50 (30 by June 30, for flight-delivery) Catalina—PBV-5A  
I-6B Airplane Landing Mats—53,000,000 sq. ft. (30,000,000 sq. ft. by June 30, 78,900 tons S.W.)

*Group II—Military Supplies*

Estimated shipping weight of quantities to be made available by June 30, 1945—171,845 tons.

U.S.  
Ref. No.  
II-2A Field Repair Trucks—654 (174 by June 30,—1,231 tons S.W.)  
70—Automotive repair load B(M8) (after June 30)  
440—Machine shop load A(M16) (100 by June 30)  
70—Electrical repair (M18) (all by June 30)  
70—Welding (Ordnance maintenance set L) (all by June 30)  
4—Couse type field repair shops (all by June 30)  
With the exception of 170 G.M.C. trucks for mounting 100 machine shops, load A(M16) and 70 electric repair shops (M18), truck chassis will be taken from offerings in Annex II.  
II-3A1 Jeeps (¼ ton 4 x 4 trucks)—2,000 (all by June 30—3,000 tons S.W.)  
II-3A2 Jeeps (Amphibian)—500 (all by June 30,—1,114 tons S.W.)  
II-3B1 Trucks, ¾ ton—2,000 (all by June 30,—7,200 tons S.W.)  
4 x 4 Weapons Carriers  
II-3B2 Trucks, 1½ ton—23,000 (all by June 30,—114,490 tons S.W.)  
11,000—4 x 2 cargo  
12,000—4 x 4 cargo  
II-3B4 Trucks, 2½ ton Amphibian—1,000 (all by June 30,—8,000 tons S.W.)  
6 x 6 cargo DUKW  
II-3D Trucks, Special Purpose—2,382 (1,602 by June 30,—11,229 tons S.W.)  
104—1½ ton 4 x 4 dump (all by June 30)  
104—2½ ton 6 x 6 dump (all by June 30) (chassis to be taken from Annex II offering)  
4—Class 135, fire crash (all by June 30) (16 additional under study)  
100—Snow plows, rotary type, gasoline engine driven on 6 ton 6 x 6 truck mounting (20 by June 30)  
1,500—Tank trucks, gasoline, 2½ ton 6 x 6, 750 gal., gravity flow (chassis to be taken from Annex II offering) (1300 by June 30)  
300—Tank trucks, gasoline, 2½ ton 6 x 6, 750 gal. with pump (chassis to be taken from Annex II offering) (after June 30)  
200—Tank trucks, gasoline, 4 ton 6 x 6, 1200 gal. (after June 30)  
70—Wreckers, heavy M1A1 (all by June 30)  
II-31 Truck-Tractors With Trailers—300 (120 by June 30,—2,318 tons S.W.)  
F-1A Fuel servicing units  
(one tractor F-1 and one trailer F-1A, 4,000 gal.)

## U.S.

## Ref. No.

- II-4B1 Track-Laying Tractors—807 (614 by June 30—10,888 tons S.W.)  
 628—Class II Prime mover or construction type with winch and hook (435 by June 30)  
 179—Class III Prime mover or construction type, with winch and hook (all by June 30)
- II-7A2 Radio Stations Over 1 K.W.—15 (after June 30)  
 5—7½ K.W.  
 10—3 K.W.
- II-7B2 Radio Stations 1 K.W. and Under—235 (all by June 30,—980 tons S.W.)  
 50—SCR 177-B  
 185—SCR 399
- II-7D2 Radio Locators, Ground—30 (all by June 30—330 tons S.W.)  
 SCR 584
- II-8A Road and Airport Construction Equipment—280 units (\$1,784,320) (all by June 30,—4,139 tons S.W.)  
 250—Graders, motorized, 12 ft. Mold board, diesel engine driven (\$1,658,500)  
 30—Road rollers, 10 ton, gasoline engine driven (\$125,820)
- II-8B Tractor Mounted Construction Equipment—100 units (\$909,500) (all by June 30,—2,060 tons S.W.)  
 Tractors, class II with dozers.
- II-8C Mixers and Pavers, Bituminous and Concrete—35 units (\$278,820) (all by June 30,—410 tons S.W.)  
 10—Distributors, Bituminous, trailer mounted 1,250 gal. (\$46,440)  
 5—Loaders, aggregate, Barber Greene Model 82A (\$29,400)  
 5—Mixers, asphalt, 110-200 tons Barber Greene Model 848 (\$76,280)  
 5—Finishers, asphalt, Barber Greene Model 879A (\$38,500)  
 10—Asphalt and soil plants, 2 units each (\$117,600)
- II-9A1 Steam Locomotives, R.R.—500 (after June 30)  
 60" gauge, 2-10-0,—105 tons.
- II-9B1 Flat Cars, R.R.  
 5,000 have been added to Annex II offering to meet this requirement and will be made available after June 30.
- II-9B3 Tank Cars, R.R.—1,000 (after June 30)  
 60" gauge, 10,000 gal.
- II-10 Medical Supplies  
 Under study for supply from unused balance of Annex II offering.
- II-11C1 Portable Pipe Lines—3 units (after June 30)  
 Military 6", 100 mile units with pumps, etc.
- II-11C2 Portable Storage Tanks—56 (all by June 30—2184 tons S.W.)  
 Steel, gasoline or oil, horizontal, 10,000 bbl. capacity
- II-11E Pontoon Bridges—275 sets (all by June 30—1,902 tons S.W.)  
 25—Bridge, floating, pontoon, 10 ton  
 100—Trailers, 2-wheel utility, type II, trestle bay load, 10 ton pontoon  
 150—Semi-trailers, special drop frame, 10 ton, pontoon (tractors for semi-trailers under study)
- II-11H Tents, Military—10,000 (1,500 by June 30—270 tons S.W.)
- II-11I Truck Assembly Sets—2 (all by June 30,—100 tons S.W.)  
 TUP assembly sets per SNL-N-348 but without truck-mounted crancs.  
 In addition, 1 unit formerly at Khorramshahr, Iran.

*Group III—Naval and Marine Supplies*

Estimated shipping weight of quantities to be made available by June 30, 1945-3,900 tons.

U.S.

Ref. No.

- III-1B Tankers—10 (all by June 30, under own power)  
Wye—182 ft.
- III-1C Icebreakers—2 (all by June 30, under own power)  
CR 98 and CR 99
- III-1D Tug Boats—2 (all by June 30—100 tons S.W.)  
Fire tugs, 65 ft.
- III-1J Floating Repair Shops—6 (all by June 30—570 tons S.W.)  
2—Barges, steel, 104 ft. machine shop  
4—YR (to be towed)
- III-2A Submarine Chasers, 110 ft.—56 (43 by June 30, under own power)  
108 tons SC
- III-2C Torpedo Boats—48 (12 by June 30—202 tons S.W.)  
PT.
- III-2D Minesweepers—60 (36 by June 30, under own power)  
24—Am 625 ton (18 by June 30)  
36—YMS (18 by June 30)
- III-2E Escort Vessels—30 (10 by June 30, under own power)  
Frigates
- III-2G Landing craft—30 (all by June 30,—2,625 tons S.W.)  
15—LCI (L) (under own power)  
15—LCT (6)
- III-2J Cargo Barges 2 (all by June 30,—403 tons S.W.)  
6 x 18 twin motor pontoon barges
- III-4H Collapsible Piers  
Under consideration

*Group IV—Foodstuffs and Related Products*

(To be made available as shipped)

Estimated shipping weight of quantities to be made available by June 30,—188,185 tons.

- IV-1B Wheat Flour—67,200 tons N.W. (all by June 30,—71,702 tons S.W.)
- IV-1D Dried Peas and Beans—22,400 tons N.W. (all by June 30,—23,900 tons S.W.)  
Beans
- IV-2B Sugar from Other Sources—5,600 tons N.W. (all by June 30,—5,656 tons S.W.)  
Granulated from Cuba
- IV-3C Tushonka and Other Canned Meat  
Canned meat under study
- IV-4B1 Fat Cuts—6,720 tons N.W. (all by June 30,—8,736 tons S.W.)
- IV-6A Canned Milk—3,360 tons N.W. (all by June 30,—4,167 tons S.W.)  
Sweetened condensed
- IV-6I Dried and Dehydrated Vegetables—6,720 tons N.W. (all by June 30,—9,408 tons S.W.)  
3,360 tons N.W. Dehydrated potatoes  
1,680 tons N.W. Dehydrated carrot  
560 tons N.W. Dehydrated beets  
1,120 tons N.W. Dehydrated onions

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Ref. No.

IV-6J Dried Soups—3,360 tons N.W. (all by June 30,—3,864 tons S.W.)  
 1,120 tons N.W. Dehydrated tomato soup  
 2,240 tons N.W. Tomato flakes

IV-8N Feed—56,000 tons N.W. (all by June 30,—60,752 tons S.W.)  
 Barley fodder

IV-8 P Tobacco—2,240 tons N.W. (after June 30)  
 Smoking—dependent upon receipt of acceptable specifications.

*Group V—Machinery and Equipment*

Estimated shipping weight of quantities to be made available by June 30, 1945—10,536 tons.

V-2B Compressors, Other—100 units (\$395,800) (all by June 30,—350 tons S.W.)  
 Air compressors, trailer mounted, 210 C. F. M.

V-4 Crushing, Pulverizing, Screening and Mixing Machinery and Equipment—20 units  
 (\$528,520) (all by June 30,—374 tons S.W.)  
 Crushing and screening plants, 25 cu. yd.

V-5 Conveyors and Conveying Systems—120 units (\$190,140) (all by June 30,—279 tons S.W.)  
 30—Type I, portable, horizontal 20' sec. with electric drive (\$48,900)  
 30—Type II, portable horizontal 20' driven sec. (\$43,800)  
 60—Portable slat conveyors, Jeffrey type 220-D, with wood apron (stackers) (\$97,440)

V-6B Cranes, Derricks, Hoists and Winches, Other—21 units (\$2,465,000) (all by June 30,—6,105 tons S.W.)  
 4—Cranes, floating K.D., 60 tons (\$860,000)  
 1—Crane, floating, 100 tons (\$525,000)  
 16—Cranes, portal wharf, 45 tons, 32 ft. ga. (\$1,080,000)

V-13B1 Generator Sets, Military—115 units (\$216,155) (all by June 30,—190 tons S.W.)  
 100—Charging sets, 5 K.W. (\$150,000)  
 10—Generating sets, 30 K.W. (\$39,380)  
 5—Generating sets, 50 K.W. (\$26,775)

V-13B3 Generator Sets, Other—14 units (\$195,842) (6 by June 30,—120 tons S.W.)  
 Mobile electric stations 250 K.W.

V-25 Woodworking Machinery—520 units (\$371,400) (all by June 30,—480 tons S.W.)  
 20—Sawmills, portable, gas engine driven, 60" saw (\$142,900)  
 500—Chain saws, portable, gas engine driven, 36" saw (\$228,500)

V-33 Gas Generating, Conditioning and Other Gas Producing Apparatus—36 units  
 (\$1,400,000) (after June 30)  
 Oxygen plants, 100 C.F.M.

V-51 Well and Blast Hole Drilling Machinery—20 units (\$67,300) (all by June 30,—114 tons S.W.)  
 Well drilling machines, percussion, gas engine driven

V-52A Excavating and Dredging Machinery and Equipment—211 units (\$2,218,860)  
 (146 by June 30,—2,524 tons S.W.)  
 100—Cranes, truck mounted, class XI, XII or XIV (\$630,000) (35 by June 30)  
 40—Crawler cranes, shovels or combinations Class III, 7-10 ton (\$504,000) (all by June 30)  
 20—Scrapers, road, cable operated, towed type, 8 yd. (\$68,100) (all by June 30)  
 1—Pile driver, 40', 2000 lbs., gas engine drive (\$5,460) (by June 30)  
 50—Cranes, crawler mounted, Class III with attachments (\$1,011,300) (all by June 30)

*Group VI—Other Materials and Products*

Estimated shipping weight of quantities to be made available by June 30, 1945,—114,551 tons dry cargo and 230,720 tons liquid cargo in bulk.

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VI-1-25I Galvanized Tel. and Tel. Wire—4,500 tons N. W. (all by June 30,—4,950 tons S. W.)

VI-1-31 A & B Barbed Wire and Staples—5,850 tons N. W. (all by June 30,—5,982 tons S. W.)

VI-1-101 A & B R.R. Rails and Accessories—100,236 tons N. W. (all by June 30,—101,238 tons S. W.)

Includes turnouts and switches

VI-3A4 Bare Copper Cable and Wire—1,176 tons N. W. (all by June 30,—1,411 tons S. W.)

VI-6A3 Field Telephone Wire

To be supplied from Annex II

VI-6A4 Other Insulated Wire and Cable—72,167 ft. (\$47,604) (all by June 30,—221 tons S. W.)

VI-6C Fabricated Structural Iron and Steel—70 units (\$127,600) (all by June 30,—89 tons S. W.)

Quonset huts, 40' x 100' x 20', clear on inside.

VI-7B Other Metal End Products—1,000 units (\$23,000) (all by June 30,—60 tons S. W.)

Cylinders, gas, empty, oxygen, 220-240 cu. ft.

VI-9A Aviation Gas Over 99 Octane—134,400 tons N. W. (all by June 30,—134,400 tons S. W. liquid cargo in bulk)

VI-9D Automotive Gas—78,400 tons N. W. (all by June 30,—78,400 tons S. W. liquid cargo in bulk)

VI-9H Lubricating Oils and Greases—17,920 tons N. W. (all by June 30,—17,920 tons S. W. liquid cargo in bulk)

11,200 tons N. W. aviation oil

6,720 tons N. W. motor oil

VI-11A Cotton Cloth

Material for 100,000 pillow ticks and 13,200,000 yds. cotton cloth under study.

VI-11B Woolen Cloth—7,000,000 yds. (after June 30)

3,000,000 yds. overcoating

4,000,000 yds. uniform

VI-12B Other Textile Products—(all by June 30,—600 tons S. W.)

100,000 Blankets, wool

100,000 Mattress covers, heavy

100,000 Sheets, standard

100,000 Pillow cases, standard

VI-19A Army Boots

Under study.

UNITED KINGDOM SCHEDULE OF SUPPLIES AND SHIPMENTS  
FOR THE FOURTH SOVIET PROTOCOL

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, 1944, to the 30th June 1945, 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 supplies originating in Australia and New Zealand, nor to supplies originating in North America, which, by agreement between the Governments of the United States and the United Kingdom, are to continue to be carried in United States ships. These supplies will be despatched either to the Persian Gulf, the Black Sea 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 under Group II of the United Kingdom Schedule include any outstanding balances of items agreed to be supplied under the Third Protocol which were not shipped or booked for shipment on a named vessel before the 1st July, 1944, 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, 1944, where agreement to replace such losses had 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 FOR THE FOURTH PROTOCOL PERIOD

(Weights in long tons, unless otherwise stated; price in sterling)

*Group I.—Armaments and Military Equipment*

1. "Spitfire" Aircraft, . . . . . 1,050.  
50 aircraft monthly during the period July–September 1944, and 100 aircraft monthly during the period October 1944–June 1945 inclusive. Spare parts are to be supplied on the same scale as during the Third Protocol Period;
2. Propellants.—Cordite R.S. . . . . 3,000 tons. The possibility of supplying a further 1,000 tons will be considered.
3. Aviation Spirit and Components  
Aviation Spirit (100/130 Grade). . . . . 240,000 short tons;  
Aviation Spirit Components (alkylates). . . . . 60,000 short tons.  
Aviation spirit and components will be made available at Abadan in accordance with the Agreement with the Government of the United States by which the latter will make available a similar quantity to the Government of the United Kingdom out of the quantity of aviation spirit allocated to the Government of the Soviet Union by the Government of the United States.

4. Motor Spirit, 70 Octane..... 60,000 tons will be made available at Abadan from August to December 1944 inclusive. The monthly quantities will be fixed in accordance with available drumming and transport capacity across Persia.
5. Radar Equipment (Radio Location Sets)
- Item (i) *Army Equipments*
- A.A. No. 4 Mark III (vehicle)..... 25 sets.
- S.L.C. 150 cm. projectors with generators. 470 reconditioned sets: offer under consideration by the Government of the U.S.S.R.
- C.A. No. 1, Mark III\*..... 4 sets. To be supplied in April 1945.
- C.A. No. 1, Mark II\*..... 4 sets.
- Item (ii) *Navy Equipments*
- Type 271..... 10 sets.
- Type 277..... 40 sets.
- Item (iii) *Air Equipments*
- H.2.S., Mark II..... Under consideration by the Government of the United Kingdom.
- A.I., Mark VIII B..... 55 sets.
- Homing beacons A.I.
- Type TR 3236..... 10 sets.
- Type TR 3559..... 10 sets.
- I.F.F. Mark III (Ground)..... 10 sets.
- GEE, Mark II (Airborne)..... 300 sets.
- GEE, Mark II (Ground)..... 3 sets.
- Item (iv) *Radio Valves*..... 393,200, of which 186,200 will be released from stocks and 207,000 from production.
- Item (v) *Radio Test Equipment*..... Under consideration by the Government of the United Kingdom.
6. Naval Equipment
- Item (i) *Mine Trawling and Navigational Equipment*
- Asdic Sets*
- Type 144..... 80.
- Type 129..... 50.
- Item (ii) *Electromagnetic Trawls*..... 14 sets.
- Item (iii) *L. A. A. Sweeps*..... 10 sets.
- Item (iv) *Portable installations for trawling mines near piers and moorages*..... 3 sets.

### Group II.—Raw Materials

- Item
1. Rubber..... 24,000 tons from Ceylon.
2. Nickel..... 1,000 short tons.
3. Copper..... 3,000 tons.
4. Lead..... 500 tons.
5. Sisal Trawl Twine..... 500 tons.
6. Industrial Diamonds to the value of..... £48,321 9s. 11d

Requests by the Government of the U.S.S.R. for additional supplies of raw materials will be considered in relation to the supply position at the time the request is submitted.

*Group III.—Industrial Equipment*

Requests by the Government of the U.S.S.R. for Industrial Equipment will be considered in relation to the capacity and materials existing at the time the request is submitted.

*Group IV.—Medical Supplies*

## SECTION I: DRUGS

## Item

1. Aspirin.....	75 tons.
2. Atebrin.....	20 tons of Mepacrin Hydrochlor. 0.1 G Tablets 200 mill.
3. Acetanalide.....	100 tons.
4. Barium Sulphate (for X-Ray Apparatus).....	10 tons.
5. Hexonal.....	1,000,000 ampoules of Hexobarbitone Sol. 1 G.
6. Diuretin.....	4 tons of Teobromin Sod. Salicyl.
7. Insulin, 40 units per c.c. ....	200,000 x 5 c.c. bottles.
8. Insulin Zincprotamine.....	120,000 x 50 c.c. bottles.
9. Nicotinic Acid.....	300 kilog.
10. Citric Acid.....	1,000 kilog.
11. Potassium Bromide.....	5 tons.
12. Compolon.....	50,000 x 2 c.c. ampoules of Extract Hepatis.
13. Codein, Pure.....	1 ton.
14. Caffein, Pure.....	4 tons. The possibility of supplying the balance in an alternative substance is being considered.
15. Cocoa-Butter.....	20 tons.
16. Camphor in Oil (20 per cent).....	15,000,000 x 1 c.c. ampoules.
17. Chaulmoogra Oil.....	1 ton.
18. Alepol.....	10 kilog.
19. Magnesia (MgO).....	9 tons of Magnesium Oxide.
20. Novakain.....	3 tons of Procaine Hydrochlor.
21. Sodium Bicarbonate.....	50 tons.
22. Pyridine, Pure.....	20 tons.
23. Peptone.....	3 tons.
24. Pyridine Solvent.....	20 tons.
25. Papaverin.....	150 kilog. of synthetic equivalent. Further offer under consideration.
26. Rivanol.....	3 tons of Euflavine.
27. Sulphanilamide.....	30 tons.
28. Sulphidine.....	5 tons of Sulphapyridine.
29. Strophantus Seeds.....	2 tons.
30. Nux-Vomica Seeds.....	3 tons
31. Strychnine Nitras.....	50 kilog.
32. Salygran.....	250,000 ampoules x 2 c.c. of Inj. Mersalyl B.P.
33. Terpene Hydrate.....	3 tons.
34. Theobromine, Pure.....	5 tons.
35. Phenacetin.....	15 tons
36. Chloral-Hydrate.....	10 tons.
37. Cardiamin.....	1,300,000 x 2 c.c. ampoules of Inj Nikethamide B.P.
38. Codeine Phosphate.....	1 ton.
39. Maltose.....	½ ton of B.P.C.
40. Salicylic Acid, Technical.....	50 tons.

## Item

41. Sodii Citras.....	2 tons.
42. Sodii Salicylas.....	5 tons.
43. Moogrol.....	500 litres.
44. Neostibozan.....	35,000 x 15-gramme ampoules of Stilbamidine.

## SECTION II: NEUROSURGICAL INSTRUMENTS AND EQUIPMENT

1. Scissors, "Schmeidens".....	250.
2. Hooks, "Duramater," sharp and blunt.....	500.
3. Forceps, "Cairns," curved.....	4,000.
4. Forceps, "Halstead," straight.....	4,000.
5. Forceps, "Halstead," artery.....	5,000.
6. Scissors, "Schmidt," for brain membrane.....	600.
7. Forceps, "Borchard," for laminectomy.....	500.
8. Scissors, "Dural," curved.....	500.

## SECTION III: SURGICAL INSTRUMENTS

1. Oxygen Apparatus.....	50.
2. Pneumothorax Apparatus, Dr. Chandler's pattern, with accessories.....	150.
3. Spinal Manometer.....	10.
4. Stomach Tubes.....	1,000.
5. Laryngeal Mirrors.....	1,500.
6. Nasopharyngeal Mirrors.....	500.
7. Cautery Instruments for Lung Cauterisations...	350.
8. Clamps, "Mickulitz".....	750.
9. Towel Clips, "Backhaus".....	2,500.
10. Hooks, Four-Pronged, blunt.....	250.
11. Scissors, Surgical, blunt-pointed.....	25,000.
12. Scissors, "Cooper" 14.5-cm. length.....	12,000.
13. Scissors, "Sauerbruch," for the first rib.....	200.
14. Scissors for taking down the "Lister" Bandages (plaster scissors).....	25,000.
15. Shadowless Lamps.....	250.
16. Electrical Sterilising Units.....	2,000.
17. Thorascopes with Accessories.....	100.
18. Ice Bags.....	300,000.
19. Syringes, "Record," various.....	25,000.
20. Foulis Tourniquets.....	50,000.
21. Rubber Tourniquets, various.....	150,000.

## SECTION IV: OPHTHALMOLOGICAL INSTRUMENTS AND APPARATUS

1. Eye-Scalpels, "Landolts," various.....	3,500.
2. "Graefe's" Linear Cataract Knives, 3 sizes.....	1,500.
3. Needles for removing foreign bodies from eyes..	1,500.
4. "Weber" Knives for Lachrymal Duct.....	1,000.
5. Needles, Cataractic, straight.....	1,500.
6. Chisels for removing foreign bodies.....	3,000.
7. Hooks for Iris, sharp and blunt.....	500.
8. Hooks, Four-Pronged, for eye resection.....	750.
9. "Graefe" Cystitomes, right and left.....	250.
10. Loupes "Berger".....	500.
11. Ophthalmoscopes, Electrical, with A. C. Feeder..	150.
12. Ophthalmoscopes, "Lister-Loring".....	10.
13. Eye Diathermy Apparatus, "Moorfield" type...	7.
14. Large Optometric Glasses, various.....	1,000 sets.
15. "Hanovia" Lamps.....	5.

## SECTION V: OPTICS

## Item

1. Rims, "Diplomatic," for Spectacles.....	10,000.
2. Frames, various, for Spectacles.....	10,000.
3. Rims, Universal, "Zeiss," for Trying Spectacles . .	10.
4. Spherometers.....	15.

## SECTION VI: X-RAY EQUIPMENT

1. X-Ray Apparatus, Stationary.....	150.
2. X-Ray Apparatus, Portable.....	40.
3. X-Ray Apparatus, Mobile.....	10.
4. X-Ray Valves, Diagnostic, for 10 kw.....	500.
5. X-Ray Tubes, Diagnostic, for 10 kw.....	1,000.
6. Glass for Viewing Boxes.....	2,000.
7. Lead Rubber Aprons.....	200.
8. "Levy-West" Fluorescent Screens for X-Ray Examination, with Lead, Glass and Frame, 30 x 40.....	500.
9. X-Ray Apparatus for Deep X-Ray Therapy, 200 volts, 10-20 milliamper.....	2 units.

## SECTION VII: PHYSIO-THERAPEUTICAL EQUIPMENT

1. Clamps, for stretching.....	500.
2. Tables, Portables, for stretching and applying the Plaster of Paris Bandages.....	3.
3. Apparatus, Mechano-Therapeutical, for Upper and Lower Extremities.....	20 units.
4. Hospital Beds with "Hoskins" Suspension Ap- paratus.....	5.
5. Sets of Chisels, for Spinal Column, straight and grooved. "Putti" type.....	6 sets.
6. Chisels, for Spinal Column, straight and grooved, "Hibes" type.....	2.

## SECTION VIII: LABORATORY EQUIPMENT

1. Blood Register Chambers.....	1,500 "B" type, further supply under consideration.
2. Microscopes, large size, binocular, each with achromatic condensers and sets of accumu- lators.....	6.

## SECTION IX: DENTISTS INSTRUMENTS

1. Arms, Flexible, for Foot Engines.....	500.
2. Arms, Flexible, wall type.....	500.
3. Drills, Beutebrock's, assorted.....	10,000.
4. Mandrels, Screw-type.....	2,500.
5. Abrasive Points and Wheels.....	250,000.
6. Electric Lathes.....	500.
7. Handpieces.....	5.
8. Handpieces, straight.....	3,000.
9. Handpieces, contra-angle.....	3,250.
10. Magnifying Mirrors.....	3,000.
11. Dental Engine, upright type.....	100.
12. Dental Engine, wall type.....	160.
13. Dental Rubber.....	20 tons.

## SECTION X: OTOLARYNGOLOGICAL INSTRUMENTS AND EQUIPMENT

Item

1. Mouth Gags . . . . .	300.
2. Transilluminating Apparatus "Coakley's" . . . . .	500.
3. Lancets Laryngeal . . . . .	200.
4. Curettes "Beckman," various . . . . .	2,000.
5. Trocars . . . . .	500.
6. Aural Polypus Forceps . . . . .	2,500.
7. Syringes, Urethral, Glass . . . . .	1,500.
8. Bougies Oesophageal, Sizes 10-30 . . . . .	250 sets.
9. Bougies Urological, Sizes 8-20 . . . . .	250 sets.

## SECTION XI: REAGENTS

1. Ammonium Acetate . . . . .	100 kilog.
2. Ammonium Molybdate . . . . .	2 kilog.
3. Ammonium Vanadinat . . . . .	300 grammes.
4. Ammonium Rhodanid . . . . .	2 kilog.
5. Benzatrone . . . . .	50 grammes.
6. Benthazoline . . . . .	50 grammes.
7. Brucine . . . . .	2 grammes.
8. Bentiozolan . . . . .	Under consideration.
9. Hydroxylamin Muriatric . . . . .	100 kilog.
10. Galactose . . . . .	50 kilog.
11. Hydantoin . . . . .	Under consideration.
12. Diphenylamin . . . . .	100 kilog.
13. Diphenylantrone . . . . .	Under consideration.
14. Dimethylanilin . . . . .	50 kilog.
15. Dimethyl-Amino-Azo-Benzene . . . . .	50 grammes.
16. P-Dinitro-Phenol . . . . .	50 grammes.
17. Diethylamino-Sulpho-Naphtyl . . . . .	Under consideration.
18. Iosamilamin . . . . .	Under consideration.
19. Isonicotinic Acid . . . . .	25 kilog.
20. Lauric Acid . . . . .	10 kilog.
21. Ac. Oleic . . . . .	60 kilog.
22. Acidum Pyrogallicum . . . . .	200 kilog.
23. Acc. Trichloracetic . . . . .	120 kilog.
24. Kalinmoxalat . . . . .	50 kilog.
25. Kupferon . . . . .	150 kilog.
26. Viola Crystalline . . . . .	50 kilog.
27. Acid Sulphanilic . . . . .	10 kilog.
28. Potash Iodelum . . . . .	50 grammes.
29. Kobalt Piro Vinogradny . . . . .	50 grammes.
30. Potassium Tellurite . . . . .	0.5 kilog.
31. Litmus in Cubes . . . . .	150 kilog.
32. Lacmoid . . . . .	100 kilog.
33. Laevulosa . . . . .	5 kilog.
34. Oil Cedar . . . . .	500 kilog.
35. Methyl Violet . . . . .	50 kilog.
36. Carbamide . . . . .	200 kilog.
37. Magnesium Chloride . . . . .	250 kilog.
38. Manganese Sulphate . . . . .	200 kilog.
39. Methylbenzothiosol Methylodide . . . . .	Under consideration.
40. Naphthalen—Alpha . . . . .	50 kilog.
41. Naphthalen—Beta . . . . .	100 kilog.
42. Naphtol-Sodium-Sulphonate . . . . .	Under consideration.
43. Sodium Dihydroxythionate . . . . .	Under consideration.
44. Sodium Alisarin-Sulphonate . . . . .	5 kilog.
45. Natrium Wolframate . . . . .	5 kilog.

Item	
46. Natrium Nitroprusside.....	10 kilog.
47. Natrium Sulphurium.....	3 kilog.
48. Natrium Oxalate.....	5 kilog.
49. M-Nitro-Phenol.....	1 kilog.
50. P-Nitro-Phenol.....	1 kilog.
51. Ninhydrine.....	50 grammes.
52. Natrium Stearate.....	10 kilog.
53. Oropon.....	100 kilog. alternative offered.
54. Indol Oxide.....	Under consideration.
55. Paranitrophenol.....	50 kilog.
56. Permutit.....	1 kilog.
57. Pentose Nucleotide.....	50 kilog.
58. Palladium Sulphate.....	0.5 kilog.
59. Palladium Bromum.....	0.5 kilog.
60. Peloidin.....	Under consideration.
61. Palladium Iodinum.....	0.5 kilog.
62. Piperidine.....	0.5 kilog.
63. Dichlorophenolindophenol.....	200 grammes.
64. Triacetoneimid.....	25 grammes.
65. Thymol.....	75 kilog.
66. Thiopene.....	15 kilog.
67. Phenylpropyl-Alcohol.....	10 kilog.
68. Phenetole.....	25 kilog.
69. Phenyl diamine (Basic).....	25 kilog.
70. Phenolphthalein.....	1.8 kilog.
71. Quinoxyl.....	200 grammes.
72. Cholesterin.....	20 kilog.
73. Eosin.....	300 grammes.
74. Eukonogen.....	Under consideration.

## SECTION XII: HOMOEOPATHIC DRUGS

1. Aurum Metal.....	100 grammes.
2. Gold Potassium Iodide.....	40 grammes.
3. Aurum Muriat.....	20 grammes.
4. Arsenic Iodide.....	2,000 grammes.
5. Moschus.....	40 grammes.

## CANADIAN SCHEDULE OF SUPPLIES

Subject to the provisions of this Protocol, the Canadian Government offers in the following Schedule, for shipment during period July 1, 1944 to June 30, 1945, supplies totalling approximately 490,000 short tons, shipping weight dry cargo. It will be necessary for the Government of the Union of Soviet Socialist Republics to select, for shipment during the Protocol period a program which, together with other supplies to be shipped from the Western Hemisphere, does not exceed the shipping capacity to be made available from this area. The items which comprise the unshipped balance of the Third Protocol, amounting to approximately 100,000 short tons, are to be included in the selection.

It is appreciated that reasonable stockpiles 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 interests of the common cause. In taking such action due consideration will be given to the expressed needs of the Union of Soviet Socialist Republics.

Except as specified, supplies for the Government of the Union of Soviet Socialist Republics from Canadian schedules will be made available as nearly as practicable in equal monthly instalments. The items in these schedules of supplies are offered subject to the ability of Canada to meet the specifications requested by the Union of Soviet Socialist Republics.

*Group I.—Military*

1. Lorries CZ2.....	5 units
2. Valentine Tank Spares.....	6 sets
3. Early Warning Radar Sets.....	5 units
4. Radar R.X.C. Spares.....	10 units
5. Radar Equipment CDX (R.E.X.).....	5 units
6. I.F.F. Equipment for G.L. Mk. III.....	13 units
7. Explosives..... up to	10,662 short tons

*Naval Equipment*

1. Oxygen Producing Plants.....	20 units
2. Wooden Minesweepers.....	5 units

*Group II.—Metals, Etc.*

1. Aluminum ingots.....	21,000 short tons
2. Duraluminum	
(a) Rods.....	680 short tons
(b) Tubes.....	120 short tons
3. Nickel.....	2,740 short tons
4. Ferro-tungsten.....	150 short tons
5. Zinc.....	5,000 short tons
6. Alloy Steel.....	16,159 short tons
7. Magnesium.....	1,000 short tons

*Group III.—Railway Equipment*

1. Flat Cars.....	1,000 units
2. Steel Rails.....	41,900 short tons

*Group IV.—Industrial Equipment*

1. Machine Tools.....	up to \$ 7,000,000
2. Hammersmith's and Press Equipment.....	up to \$ 4,000,000
3. Power and Electric Equipment.....	up to \$21,000,000
4. Miscellaneous Equipment.....	up to \$12,000,000

*Group V.—Foodstuffs*

1. Wheat and Flour (minimum).....	199,000 short tons
2. Soya Bean Flour.....	6,000 short tons
3. Rolled Oats.....	10,000 short tons
4. Lard.....	10,000 short tons

*Group VI.—Services*

1. Ship repairs and servicing of vessels (as approved by Canadian Mutual Aid Board from time to time)	
Estimated Tonnage of Fourth Protocol.....	391, 371 short tons
Unshipped Balance of Third Protocol.....	100, 000 short tons
(Estimated carry-over at June 30, 1944)	
Total of the Estimates of Fourth Protocol Tonnage and of the Unshipped Tonnage of Third Protocol.....	491, 371 short tons