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SUPPORTING APPLICATION
FOR
THE CANCER CENTER BUILDING CONSTRUCTION

April, 1972

Seoul National University Hospital

Ministry of Education

The Government of the Republic Korea

Seoul, Korea

April 10, 1972

Project Scheme

Name of project : Cancer center Building construction

- Proposed project :
- 1) Building area 1,800 pyung
 - 2) Bed number 70 beds
 - 3) Construction team FY 1973 -1974

Estimate Amount Total - W2,195,199,620 \$5,776,841

Break Down

追加

- ① Building work W 185,200,000 \$1,276,842
- ② Mechanic & Electrical work W 347,364,840 \$ 914,118
- 3) Medical Equipment W1,362,634,780 \$3,185,881

Purpose :

As the medical organization of research and medical treatment the cancer to an early diagnosis which is terrible enemy against to the human-being so contraeeling of public health that aimed to develop to the peoples prosperity.

Result :

Up-the-date commonly the medical facilities of general hospital were developed, but still up-progressed in the cancer researching facilities for an early diagnosis and medical treatment yet, because that were required a huge budgetary fanance and medical men-power.

By the establish of this cancer center enable realized and early deagnosis and patient treatments which is terrible enemy anginst to the human-being.

BUILDING AREA CALCULATION

Patient Care Unit - 70 beds	622	pyung
Surgical Facilities	48	"
Central Laboratories	72	"
Diagnostic Radiology	210	"
Radiation Therapy	100	"
Nuclear Medicine	160	"
Central Research Lab.	40	"
Central Services	58	"
OPD	110	"
Administration	69	"
Animal Surgery	60	"
Autopsy	20	"
Mechanical & Utilities	211	"

TOTAL 1,800 pyung

BUILDING AREA AND COST SUMMARY

FOR PROPOSED CANCER CENTER

DEPT.	UNIT	AREA	UNIT PRICE	TOTAL
Patient Care	py.	622	W 230,000	W 143,060,000
Surgical	py.	48	300,000	14,400,000
Central Lab.	py.	72	230,000	16,560,000
Diag. Rad.	py.	210	230,000	48,300,000
Rad. Therapy	py.	180	460,000	82,800,000
Central Research Lab.	py	40	230,000	9,200,000
Nuclear Med.	py.	100	230,000	23,000,000
Central Serv.	py.	58	200,000	11,600,000
Administration	py.	69	200,000	13,800,000
O.F.D.	py.	110	230,000	25,300,000
Animal Surg.	py.	60	300,000	18,000,000
Autopsy	py.	20	300,000	6,000,000
Mech. & Utility	py.	211	180,000	37,980,000
Tunnel	m.	400	88,000	35,200,000
	py.	1,800	TOTAL	W 485,200,000
	m.	400		\$ 1,276,842

(Exchange ratio: W300 = U.S. \$1.00)

EQUIPMENT COST SUMMARY
FOR
PROPOSED CANCER CENTER

A. MEDICAL EQUIPMENT

1. Radio Therapy Equipment	\$ 1,115,000
2. Radium Therapy Equipment	\$ 261,000
3. Diagnostic Radiology Equipment	\$ 637,000
4. Nuclear Medicine Equipment	\$ 545,100
5. Biochemistry Lab. Equipment	\$ 325,050
6. Pathology Lab. Equipment	\$ 260,006.85
7. Hem., Bact., Cyt. Lab. Equipment	\$ 142,468
8. Internal Medicine Equipment	\$ 63,515
9. OB-Gyn. Equipment	\$ 7,174
10. Washing-Sterilization at CSSD	\$ 99,900
11. Sterilization Equip. at Operating and Treatment Rooms	\$ 28,900
12. Washing-Sterilization Equip, at Laboratories	\$ 28,308
13. Animal Experiment Equipment	\$ 44,500
14. Surgical Equipment	\$ 27,960

SUB-TOTAL \$ 3,595,681.85

B. BUILDING EQUIPMENT, FURNITURES AND MISCELLANEOUS

1. Medical Record and Data Processing Equipment	\$	79,118.15
2. Built-in Furniture	\$	110,000
3. Movable Furniture	\$	90,000
4. Heating, Ventilating, Air-Conditioning, Utility Equipment and Sanitary Fixtures	\$	420,000
5. Electrical & Communication Equipment, Elevators and Pneumatic Tube	\$	210,000
6. Scientific Medical Journals and Literature	\$	5,000

SUB-TOTAL \$ 914,118.15

TOTAL EQUIPMENT \$ 4,500,000

TOTAL BUDGET:

Building Construction Cost	\$	1,276,842
Equipment	\$	4,500,000

TOTAL \$ 5,776,842

RADIO-THERAPY EQUIPMENT

1. Linear Accelerator - 13 MEV		
1 each	.....	\$ 270,000
2. Linear Accelerator - 13 MEV		
1 each	.....	\$ 270,000
3. Betatron - 31 MEV		
1 each	.....	\$ 350,000
4. Cobalt 60 Unit - 8000 ci		
2 each	\$ 110,000
5. Simulator		
1 each	\$ 45,000
6. Superficial Units		
2 each	\$ 40,000
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SUB - TOTAL		\$ 1,115,000

RADIUM THERAPY

1. Large Radium Vault (100 MG)		
1 each	\$ 25,000
2. Radium Transport Carrier		
1 each	.....	\$ 700
3. Isodose Calculator		
1 each	.....	\$ 15,000
4. Mobile Breast Shield		
1 each	.....	\$ 500
5. Mobile Lead Shielded Surgical Chair		
1 each	.....	\$ 800
6. After Loading System for Radium		
1 set	.....	\$ 80,000
7. Radiation Survey Meter		
1 each	.....	\$ 7,000
8. Molding Room Equipment	.....	\$ 40,000
9. Monitoring Equipment	.....	\$ 15,000
10. Personnel Dosimeters	.....	\$ 7,000
11. Examination Instruments	.....	\$ 50,000
12. Photography Laboratory and Dark Room Equipment	.....	\$ 20,000

SUB - TOTAL \$ 261,000

DIAGNOSTIC RADIOLOGICAL EQUIPMENT

1.	Fluroscopy with Bi-plane Cine and Video 1 each	.....	\$ 120,000
2.	Fluroscopy - Standard 1 each	.....	\$ 40,000
3.	Radiography Equipment 3 each	.....	\$ 100,000
4.	Angiography Units with Bi-plane Cine 2 each	.....	\$ 200,000
5.	Polytomography Unit 1 each	.....	\$ 42,000
6.	Skull Unit & PEC Chair 1 each	.....	\$ 25,000
7.	Mass Chest X-Ray 1 each	.....	\$ 23,000
8.	Mass G.I. Unit 1 each	.....	\$ 23,000
9.	100mm Camera 1 each	.....	\$ 10,000
10.	Mamography Unit 1 each	.....	\$ 15,000
11.	Full Body Thermography Unit with Video and Recorder 1 each	.....	\$ 24,000
12.	Ultrasonic Equipment	.....	\$ 15,000

SUB - TOTAL \$ 637,000

NUCLEAR MEDICINE

1.	Scintillation Camera and Accessories with Data Analysis System		
	1 each	.....	\$ 80,000
2.	Dual Scanner with Data Analysis System		
	1 each	.....	\$ 49,000
3.	Advanced Digital Multi- prober		
	1 each	.....	\$ 24,000
4.	Universal Gamma Counting System		
	1 each	.....	\$ 23,000
5.	Uptake System - 3 channel		
	1 each	.....	\$ 14,600
6.	Uptake System - 1 channel		
	1 each	.....	\$ 6,500
7.	Human Radiation Counting System (Diagnostic Full-Body Scanner)		
	1 each	.....	\$ 200,000
8.	Whole Body Monitor		
	1 each	.....	\$ 6,700
9.	Low Background Beta Counter		
	1 each	.....	\$ 7,500
10.	Liquid Scintillation Counter		
	1 each	.....	\$ 29,000
11.	Multi-channel Analyzer		
	1 each	.....	\$ 24,000

BIOCHEMISTRY EQUIPMENT

1. Liquid Chromatograph 1 set	.....	\$ 15,600
2. Gas Chromatograph 1 set	.....	\$ 10,000
3. Infrared Spectrophotometer 1 set	.....	\$ 14,000
4. Rapid Scanning Spectrophotometer 1 set	.....	\$ 15,000
5. Recording Spectrophotometer 1 set	.....	\$ 15,000
6. Ultra Centrifuge, 55,00 rpm 1 set	.....	\$ 14,500
7. High Speed Ultra Centrifuge 65,000 rpm 1 set	.....	\$ 16,300
8. Analytical Ultra Centrifuge 1 set	.....	\$ 45,000
9. Refrigerated Ultra Centrifuge 20,000 rpm 1 set	.....	\$ 7,500
10. Anglet type Centrifuge 1 set	.....	\$ 1,000
11. Fluorescence Spectrophotometer 1 set	.....	\$ 15,000
12. Automated Analyzer - 4 channels 2 sets	.....	\$ 80,000
13. Atomic Absorption Spectrophotometer 1 set	.....	\$ 15,000

BIOCHEMISTRY EQUIPMENT (con.)

14. Visible Spectrophotometer - digital		
1 set	.....	\$ <u>2,000</u>
15. UV Spectrophotometer - digital		
1 set	.....	\$ <u>2,500</u>
16. Analytical Balance		
1 set	.....	\$ <u>650</u>
17. Warburg Apparatus		
1 set	.....	\$ <u>1,500</u>
18. Electrophoresis Apparatus		
1 set	.....	\$ <u>5,000</u>
19. Densitometer for Electrophoresis		
1 set	.....	\$ <u>2,000</u>
20. Refrigerator		
2 sets	.....	\$ <u>2,000</u>
21. PH Meter		
1 set	.....	\$ <u>700</u>
22. Torsion Balance		
1 set	.....	\$ <u>500</u>
23. Autotitrator		
1 set	.....	\$ <u>3,000</u>
24. Van slyke		
	.....	\$ <u>800</u>
25. Data Processing Machine		
1 set	.....	\$ <u>15,000</u>
26. Cold Room (Clean Room)		
1 set	.....	\$ <u>5,500</u>
27. Flame Photometer - digital		
1 set	.....	\$ <u>3,500</u>

BIOCHEMISTRY EQUIPMENT (con.)

28. Electrophoresis Apparatus with densitometer 1 set	.....	\$ <u>7,000</u>
29. Refeigerator 2 sets	\$ <u>2,000</u>
30. Refrigerated Ultra Centrifuge 20,000 rpm 1 set	\$ <u>7,500</u>
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SUB - TOTAL		\$ 325,050

PATHOLOGY EQUIPMENT

1. "Electone microscope"
1 each \$ 80,000

2. Six cadaver cabinets
6' 1" x 8' x 8' 2" (5,200
B.T.U.) (230 volts)
Prices upon application
2 each \$ 8,000

3. Autopsy table 260x 75x80cm.
Complete
2 each \$ 6,900

4. Cryostat microtome
cryocut for operation on
115 volts, 60cps
complete

5. Freezing microtome
2 each \$ 6,264

6. A.O. Spencer, microscope,
microstar series
2 each \$ 2,918

7. Photostar semi-automatic
camera out fit
2 each \$ 1,212

8. A.O. Spencer, microscope,
H20 Dual viewing microstar
2 each \$ 4,616

9. Ultratome III-Ultratome
Table-Knife Make-Pyramitome
combination
2 each \$ 16,298

10.	Trimming blocks (for use on microtome and for separate touch use) (\$10.00/15.00)	
	1 each	..... \$ <u>25</u>
11.	Photomicroscope, Zeiss complete, 115 volts Ac 60	
	1 each	..... \$ <u>5,829</u>
12.	Microscope, fluorescence, Zeiss, Model GFL, 658-633	
	1 each	..... \$ <u>2,769</u>
13.	Automatic tissue processor	
	1 each	..... \$ <u>1,700</u>
14.	Automatic tissue processor	
	2 each	..... \$ <u>3,390</u>
15.	Type MT2-B "Porter-Blum" Ultra-Microtome (without stereomicroscope)	
	1 each	..... \$ <u>3,490</u>
16.	Te-Her CO ₂ gas incubator, Automatic "HU"	
	2 each	..... \$ <u>1,600</u>
17.	Scanning Electron microscope	
	1 each	..... \$ <u>70,000</u>
18.	Automatic slide cytosedimentation machine auto smear	
	2 each	..... \$ <u>1,200</u>
19.	A.O. Spencer cycloptic Stereomicroscope series 55, M-2	
	1 each	..... \$ <u>465</u>
20.	Automatic slide stainer complete (Rotating system)	
	2 each	..... \$ <u>3,800</u>

21.	Slide Tray, stainless steel 12 each	.....	\$ 354
22.	Cabinet stand for No. 2000 Model Stainer 6' x 14" x 36" 1 each	.....	\$ 195
23.	Dissecting table, for surgical dissecting equipment Model WKD-50 disposal unit 2 each	.....	\$ 2,800
24.	Ventilated surgical table-Hood complete \$795.00 and Model WKD-50 Disposal Unit \$425.00 2 each	.....	\$ 2,440
25.	Large sliding microtome precision, with No. 822 knife holder No. 942 knife, 961 back, 955 Handle & 969 like oil 2 each	.....	\$ 2,150
26.	Microtome knife, 120mm 1 each	.....	\$ 295
27.	Microtome knife, 185mm 1 each	.....	\$ 495
28.	High Resolution stereostar zoom microscopes 1 each	.....	\$ 858
29.	Bionocular microscopes 5 each	.....	\$ 4,437
30.	Polarizer Unit 2 each	.....	\$ 164
31.	Automatic microtome knife sharpeners, complete 1 each	.....	\$ 640

32.	Covered cadaver carrier, (825) and standard Hospital body tray stainless (826) \$525.00/ 175.00 (complete)		
	2 each	.....	<u>\$ 1,400</u>
33.	Thomas-Franz Microtome Knife Sharpener for 115 volts 50 or 60 435 watts.		
	1 each	.....	<u>\$ 780</u>
34.	Post-mortem knife, extra-heavy patterns		
	4 each	.....	<u>\$ 124</u>
35.	Knife, Rib cutting		
	4 each	.....	<u>\$ 64</u>
36.	Fick's myelotome		
	4 each	.....	<u>\$ 44</u>
37.	Tissue forceps, stainless steel 1 x 2 teeth size 6"		
	3 each	.....	<u>\$ 75</u>
38.	Tissue forceps, 2 and 3 teeth stainless steel size 10"		
	2 each	.....	<u>\$ 104</u>
39.	Glucks Rib Shears, 8 $\frac{1}{2}$ "		
	6 each	.....	<u>\$ 135</u>
40.	Stainless steel covered container for carrying autopsy specimens 2 gallon capacity		
	4 each	.....	<u>\$ 94</u>
41.	Surgical dissecting tray complete with No. 356 Dissecting board		
	3 each	.....	<u>\$ 66</u>

42.	Surgical dissecting board 3 each	.....	\$ 37.50
43.	Brain sectioning Knife 250mm long x 40mm wide 6 each	.....	\$ 132
44.	Adjusts headrest in aluminum 2 each	.....	\$ 42
45.	Surgical blades size 22 101.00 per gross 12 each	.....	\$ 126
46.	Cryotome lamp with magnetic base 2 each	.....	\$ 39.90
47.	Hand sealer, polyethylene plastic specimen bags (Model 204) 2 each	.....	\$ 38
48.	Tissue capsules without separators \$18.70 (doz) No. 330-5 separators for same. 20 set & 2.20 (doz set) 10 each	.....	\$ 209
49.	Autopsy Table Rinser (Flush) 2 each	.....	\$ 37
50.	Straight shank objective discs, 1 1/8 4 each	.....	\$ 66
51.	Morone pans (Heavy gauge) 1 1/2 Qt (20 3/4 x 12 3/4 x 4 1/8) 20 each	.....	\$ 324

52.	Lens. Achromatic Objective, Infinity Corrected 45 x 6 each	.....	\$ 330
53.	Mayo dissecting scissors 9" size 2 each	.....	\$ 220
54.	Bone cutting forceps, stainless 6" size 6 each	.....	\$ 84
55.	Plain bone shears 9" size, stainless each	.....	\$ 114
56.	Scissors fine pointed stainless steel, straight 4½" size 12 each	.....	\$ 300
57.	Enterotomy Scissors 8" stainless steel 6 each	.....	\$ 63
58.	Doyen's Abdominal curved 7½, stainless steel. 12 each	.....	\$ 112
59.	Dubois Scissors Heavy pattern, 10½" long, stainless steel 6 each	.....	\$ 102
60.	Director, grooved, 5" Nickel Flated steel 2 each	.....	\$ 20
61.	Probe, Filexible, 6" Chromium plated nickel silver 2 each	.....	\$ 10
62.	Kelly's curved, 5½, 2 each	.....	\$ 106
63.	Rochester-Oxchmer's straight 7¼" 12 each	.....	\$ 84

64.	Rochester-Oschner's curved 8" size		
	12 each	.....	\$ 120
65.	Hammer, steel 1 1/8" face, 9" long		
	2 each	.....	\$ 24
66.	Osteotome, stainless steel		
	6 1/2" x 13mm \$8.00		
	" x 12mm \$8.00		
	4 each	.....	\$ 64
67.	Bone chisels		
	stainless 6 1/2"	.....	\$ 64
68.	Rochiotome, chrome 6" long x 1 1/2"		
	2 each	.....	\$ 21
69.	Costotome, stainless, 8" long		
	4 each	.....	\$ 62
70.	Virchow's skull breaker, stainless		
	steel, size 5/8" Heavy patterns		
	4 each	.....	\$ 42
71.	Rachiotomy, single, chrome plate		
	2 each	.....	\$ 50
72.	Knives, postmortem complete set		
	(250, 200 & 150mm)		
	4 each	.....	\$ 132
73.	Diamond print glass marking pencil		
	6 x 150mm		
	2 each	.....	\$ 130
74.	Microscope slide staining rack		
	2 each	.....	\$ 120
75.	Lipshaw electric paraffin knife		
	110 210 volts, 50-60 cycle. AC		
	Complete \$59.50		
	2 each	.....	\$ 119
76.	Tissuemat water bath fisher		
	2 each	.....	\$ 130

77.	Instrument dissecting table 3 each	.....	\$ 173.25
78.	Process/embedding rings, tissue Tak II. (Per pkg of 1500) 2 each	.....	\$ 105
79.	Gross specimen and Brain microtome, complete, without knife 2 each	.....	\$ 86.90
80.	Morgue pans, heavy gauze 32Qt (21 3/4 x 13 3/4 x 8") 10 each	.....	\$ 392
81.	Woll Drain Dissecting tray, complete with dissecting board (No. 361) 3 each	.....	\$ 117
82.	Lipshaw clinical staining unit for frozen sectioning complete 4 each	.....	\$ 155
83.	Sink basket 2 each	.....	\$ 60
84.	Laboratory Lamp with magnifier 2 each	.....	\$ 59
85.	Lipshaw surgical handle, stainless steel, No. 4 1 each	.....	\$ 25
86.	Morgue pans (Heavy gauge) 22Qt (20 3/4 x 12 3/4 x 6 1/8") 20 each	.....	\$ 480
87.	Voltage Regulating Transformer 117 volts, 60 cycle capacity 80 watts 2 each	.....	\$ 78
88.	Hand saw & blade Nickel plated 3 each	.....	\$ 60

89.	Lens, Achromatic Objective, Infinity corrected, x 10 6 each	.....	\$ 204
90.	Lens, Achromatic Objective, infinity corrected 4 x (N.A. 0.12) 6 each	.....	\$ 204
91.	Lens, Achromatic Objective, Infinity corrected, x 20 6 each	.....	\$ 294
92.	Lens, Achromatic Objective, infinity corrected, 100 x 6 each	.....	\$ 570
93.	Lipshaw bone decalcifier complete 2 each	.....	\$ 254
94.	Glass Jar, 72 of capacity ground top, heavy duty 10 each	.....	\$ 35
95.	Basket, Acid resistant plastic 4 x 5" 10 each	.....	\$ 125
96.	Lipshaw warming plate (complete) (\$142.50) 2 each	.....	\$ 285
97.	Lipshaw Dual-tem warming 115 volts AC 500 watts complete, 2 each	.....	\$ 285
98.	Circulating Hot Air Laboratory Drier 110/120 volts 50/60 cycle A.C. 2 each	.....	\$ 275
99.	Lipshaw autopsy scales, double dial, 9 kilos 3 each	.....	\$ 396
100.	Lipshaw portable autopsy scale stand \$52.75 (complete without scale). 3 each	.....	\$ 158.25

101.	1. Stainless steel beaker 2. No. 2003-G cover 1 each	.....	\$ <u>118.25</u>
102.	Automatic slide cytosedimentation macline "Sakura" Autosmear Model 6F-12 11 1/4 x 36 x 29cm 1 each	.....	\$ <u>100</u>
103.	Teflon Jaw Heat Sealer, polyethylene plastic specimen bags, with complet foot pedal assembly 110AC 500 watt (Model 235) (\$105.00 (complete without stand) 3 each	.....	\$ <u>210</u>
104.	Adjustable stand for model 235 sealer 24 x 11 1/4 x 29-39" 2 each	.....	\$ <u>105.80</u>
105.	Tissue float (Bath) Debuxa Model, complete 3 each	.....	\$ <u>238.50</u>
106.	Transformers, variable power (stat, 2.5K watts) Type No. 2FF 236B 4 each	.....	\$ <u>288</u>
107.	Electric paraffin pitcher 500 cc 115 volt, 60 cycle AC 200 watt 3 each	.....	\$ <u>208.50</u>
108.	Micro slide drier 110 volt 2 each	.....	\$ <u>139.50</u>
109.	No. 460 bone dust collector \$2.50 (pkg of 6) 20 each	.....	\$ <u>50</u>
110.	Arbor for blades, lipshaw electric autopsy saw, 5.00 each 6 each	.....	\$ <u>30</u>
111.	Large sectioned blade, autopsy saw, for general purpose 12 each	.....	\$ <u>60</u>

112.	Small sectioned blade, autopsy saw, for use special laboratory work 12 each	.....	<u>\$ 60.</u>
113.	Spinal column saw blade, autopsy electric saw 6 each	.....	<u>\$ 30</u>
114.	Mastoid saw blade, electric autopsy saw 6 each	.....	<u>\$ 30</u>
115.	Carrying case for No. 450 Autopsy electric saw 10 x 12 x 1 1/2 2 each	.....	<u>\$ 75</u>
116.	G.E. Refrigerator 11.5 cu. ft; 110volt/60C 2 each	.....	<u>\$ 516</u>
117.	G.E. freezer 11.6 cu. ft; 110v/60C 2 each	.....	<u>\$ 370</u>
118.	Lipshaw safe-section bone saw, (complete with one 25 x saw blade and set of 25-C spring clamps) 1 each	.....	<u>\$ 168.85</u>
119.	Extrasets of spring clamps for No. 25 bone saw 6 each	.....	<u>\$ 48</u>
120.	Extrablade, 1/4" in diameter, for No. 25 bone saw 6 each	.....	<u>\$ 61.50</u>
121.	Lipshaw electric autopsy saw 110volt, 60 cycle A.C. 1 each	.....	<u>\$ 137.50</u>
122.	Autopsy saw standard 1 portable 1 each	.....	<u>\$ 60</u>

123.	Electric utility instrument sharpener complete, with one No. 737 NW wheel and plastic cover 2 each	.....	\$ 255
124.	MW grinding wheels, five medium grade for general purpose work (for No. 737) 6 each	.....	\$ 60
125.	Hume Hood, for surgical dissecting equipment, \$750.00 No. 201 Exhaust fan \$49.50 2 each	.....	\$ 1,599
126.	35mm camera for X - L 20TUQW Microscope 2 each	.....	\$ 1,130
127.	Angular Dissecting Table 2 each	.....	\$ 990
128.	Lipshaw Cryo-plate for tissue technology complete \$395.00 2 each	.....	\$ 790
129.	Electric laboratory incubator- ovens, "chief" complete with 250-T thumoneta 2 each	.....	\$ 754.90
130.	Sanitary base cabinets for "chief" No. 250 Incubator- Oven 110 volt 60 cycle 2 each	.....	\$ 174.90
131.	Mortuary lift complete with No. 809-X stainless steel autopsy tray 1 each	.....	\$ 344.40
132.	Extra autopsy tray for use with No. 809 mortuary lift 2 each	.....	\$ 103.80

133.	Mortuary hoist (without scale No. 824) 90 x 38 x 43 1 each	.....	\$ 305
134.	Mortuary hoist scale 1 each	.....	\$ 177.50
135.	Dry sterilizer, complete 115 volts Ac 2 each	.....	\$ 295
136.	Electric vacuum infiltrator and paraffin dispenser, complete 1 each	.....	\$ 275
137.	Waxet replacement parts for 22" paraffin infiltrator 10 each	.....	\$ 50
138.	Balance, fisher brand direct reading, improved. 1 each	.....	\$ 260
139.	Dictating and conference cassetts tape record (\$125), complete with AC adapter, foot control, ear piece set, autoconverta and Telephone pick-up. (\$76.00) (Model F 101) \$201.00 (complete with optional accessories) 6 each	.....	\$ 1,206
140.	Stainless steel covered container for carring autopsy specimens. 1 gallon capacity 6 each	.....	\$ 93
141.	Lipshaw slide viewer 2 each	.....	\$ 26
142.	Neoprene Cork Dissecting Board 23 x 16" 10 each	.....	\$ 140

143.	Morgue pans (Heavy gauge) 7½Qt (20 ¾ x 12 ¾ x 2½") 3 each	.....	\$	<u>115</u>
144.	Covered Instrument Tray, autopsy 17 1/16 x 4 1/16 x 2 1/8 3 each	.....	\$	<u>33.75</u>
145.	Instrument tray, autopsy 19 x 12½ x 5/8 6 each	.....	\$	<u>63</u>
146.	Instrument tray, laboratory, stainless steel 18 1/8 x 12 1/8 x 2 3/8 6 each	.....	\$	<u>60</u>
147.	Edisshaw utility Razor Blade Knife, complete with 5 blades 12 each	.....	\$	<u>117</u>
148.	Graduated measure, stainless steel, laboratory 1Qt 6 each	.....	\$	<u>54</u>
149.	Funnels, stainless steel, laboratory Qt 6 1/4 x 7¼" 6 each	.....	\$	<u>45</u>
150.	Graduated measure, stainless steel laboratory 1/2 Qt 6 each	.....	\$	<u>40.80</u>
151.	Instrument tray, autopsy 15 1/8 x 10½ x 5/8" 6 each	.....	\$	<u>39</u>
152.	Covered Instrument tray, autopsy 8½ x 3 x 1½ 6 each	.....	\$	<u>36</u>
153.	Polyethylene plastic tissue capsules, Acid resistant 10 each	.....	\$	<u>55</u>

154. Post-mortem Needles, double curved
 5" long.
 3½" long
 10 each \$ 90
155. Tape measure, steel, in metal case
 4 each \$ 16
156. Handles, scalypel, dissecting,
 Bard-parker No. 6
 12 each \$ 300
157. Durham Duplex blades for use
 with No. 527 utility knife
 100 each \$ 55

SUB - TOTAL \$260,006.85

HEMATOLOGY, BACTERIOLOGY, CYTOLOGY EQUIPMENT

1.	Stereoscopic zoom microscope 2 set	.....	\$ 1,200
2.	Microscope 4 set	.....	\$ 2,800
3.	Microscope with accessories 3 set	.....	\$ 5,100
4.	Inverted Microscope with accessories 1 set	.....	\$ 4,000
5.	Profile projector 1 set	.....	\$ 2,000
6.	Fluorescent Microscope 1 set	.....	\$ 2,000
7.	Constant Voltage Transformer 3 set	.....	\$ 450
8.	Automatic Cell Counter 1 set	.....	\$ 15,000
9.	TE-HER shaking Incubator 1 set	.....	\$ 1,000
10.	Drying oven- Hot Air 1 set	.....	\$ 800
11.	Humidity Controlled Incubator 1 set	.....	\$ 1,000
12.	Ultra Low Temperature Cabinet 1 set	.....	\$ 7,741
13.	Ultrasonic Cleaner (Large Type) 1 set	.....	\$ 9,100
14.	Vibrator (slide cleaner) 1 set	.....	\$ 165

HEM., BACT. LAB., EQUIPMENT (con.)

15.	Freezing Microtome (Coldtome) 1 set	.....	\$ 2,900
16.	Water Still (electric) 1 set	.....	\$ 749
17.	Clinical Rotator (Syphilis Test) 1 set	.....	\$ 261
18.	Freezing Chamber 1 set	.....	\$ 3,782
19.	Automatic Cyto (Slide) Stainer 1 set	.....	\$ 4,687
20.	Automatic Cytosedimentation Machine (Autosmear) 1 set	.....	\$ 1,007
21.	Automatic Tissue Processor (sliding system) 1 set	.....	\$ 2,400
22.	Automatic Microtome Knife Sharpener 1 set	.....	\$ 1,210
23.	Shakers (for Tissue Fixation) 1 set	.....	\$ 336
24.	Incubator 1 set	.....	\$ 2,208
25.	Shaking Incubator 1 set	.....	\$ 2,316
26.	Carbon Dioxide Incubator 1 set	.....	\$ 3,534
27.	Low Temperature Incubator 1 set	.....	\$ 2,240
28.	Water Bath 3 set	.....	\$ 1,050

HEM., BACT., CYTO., EQUIPMENT (con.)

29.	Laboratory Sterilizer (Autoclave) 1 set	.....	\$ 1,166
30.	Hot Air Sterilizer (Electric) 1 set	.....	\$ 473
31.	Paraffin Oven 1 set	.....	\$ 999
32.	Slide Warmer (hot plate) 2 set	.....	\$ 700
33.	Hot Air Circulating Oven 1 set	.....	\$ 1,807
34.	Constant Oven for Electric Micro- scope Slide 1 set	.....	\$ 730
35.	Coagulator 1 set	.....	\$ 833
36.	Cabinet Type Sterilizer with Boiler 1 set	.....	\$ 4,389
37.	Large Microprojector, Zoom Lens 1 set	.....	\$ 2,230
38.	Ion-Exchange Resin Demineralizer 2 set	.....	\$ 700
39.	Voltstat Relay - TRIAC Type 1 set	.....	\$ 120
40.	Refrigerated Thermostat 1 set	.....	\$ 1,300
41.	Thermostatic Culture Shaker Rotating Type 1 set	.....	\$ 3,950
42.	Incubath Shaker - Water Bath Type 1 set	.....	\$ 850

HEM., BACT., CYTO., EQUIPMENT (con.)

43.	Automatic Ice Cuber 1 set	.....	\$ 1,500
44.	Centrifuge - Bench Type 3 set	.....	\$ 1,560
45.	Universal High Speed Refrigerated Centrifuge 1 set	.....	\$ 8,800
46.	Colony Counter 1 set	.....	\$ 250
47.	Blood Cell Calculator - 12 keys 4 set	.....	\$ 600
48.	Pipette Shaker - 10 place 3 set	.....	\$ 540
49.	Hand Tally Counter 5 set	.....	\$ 250
50.	Photoelectric Colorimeter 1 set	.....	\$ 450
51.	Hemoglobin Meter 1 set	.....	\$ 110
52.	Microhematocrit centrifuge 2 set	.....	\$ 500
53.	Automatic Coagulation factor analyzer 1 set	.....	\$ 15,000
54.	Laboratory Washer 1 set	.....	\$ 960
55.	Detergent - 15 kg. no. 21 1 set	.....	\$ 24
56.	Cleaners, ultrasonic 1 set	.....	\$ 960

57.	Thermometer Set (8)		
	1 set	.....	\$ 680
58.	Water Bag for mag mixer		
	1 set	.....	\$ 46
59.	Auto-mixer		
	3 set	.....	\$ 112
60.	Aspirator		
	1 set	.....	\$ 134
61.	Rotary Evaporator		
	1 set	.....	\$ 172
62.	Calculator Adaptor		
	1 set	.....	\$ 5,600
63.	Stop watch - digital		
	1 set	.....	\$ 448
64.	Clean Benches		
	1 set	.....	\$ 2,440

SUB - TOTAL \$ 142,468

MEDICAL EQUIPMENT

1.	Gastro-camera w/integral Fiberscope 2 set	\$ <u>4,460</u>
2.	Gastro-camera w/integral Fiberscope for cytology 1 set	\$ <u>2,700</u>
3.	Gastrofiberscope for Biopsy 1 set	\$ <u>2,770</u>
4.	Esophago Fiberscope 1 set	\$ <u>2,770</u>
5.	Colonic Fiberscope 1 set	\$ <u>4,050</u>
6.	Duodeno Fiberscope 1 set	\$ <u>3,780</u>
7.	Choledochofiberscope 1 set	\$ <u>2,835</u>
8.	Gastrointestinal Fiberscope 1 set	\$ <u>3,130</u>
9.	Feritonescope 1 set	\$ <u>2,100</u>
10.	Bronchoscope 1 set	\$ <u>2,300</u>
11.	Cystoscope 1 set	\$ <u>7,900</u>
12.	Sigmoidiscope 1 set	\$ <u>3,920</u>

13.	EEG - 16 channel unit	\$ 12,000
14.	EMG - 1 set	\$ 7,000
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	TOTAL		\$ 63,515

GYNECOLOGY EQUIPMENT

1.	Colposcope with photo-attachment 2 each	\$ 2,400
2.	Culdoscope 2 each	.....	\$ 1,224
3.	Hysteroscope, Laparoscope, Electric Knife for cone biopsy 1 each	.....	\$ 2,150
4.	Brown-Buerger convertible cystoscope 1 each	.....	\$ 1,400

SUB - TOTAL \$ 7,174

WASHING STERILIZATION EQUIPMENT

A. CSSD

1.	Cart Washer - 1 each	.....	\$ 18,580
2.	Utensil Washer - 1 each	.....	\$ 3,110
3.	Washer Sterilizer - 1 ea	.....	\$ 15,400
4.	Ultrasonic Cleaner -1 ea	.....	\$ 9,200
5.	Gas Aerator - 1 ea.	.....	\$ 1,200
6.	Gas Sterilizer - 1 ea.	.....	\$ 8,000
7.	30 GH Ultrajare Stills 3 each	.....	\$ 9,410
8.	Gen. Purpose Sterilizer 24 x 36 x 48" - 1 each	.....	\$ 16,000
9.	High Speed Sterilizer 24 x 26 x 48" - 1 each	.....	\$ 19,000

SUB - TOTAL \$ 99,900

B. OPERATING ROOMS & TREATMENT ROOMS

1.	Instrument Sterilizer 20 x 20 x 36" - 2 each	.....	\$ 16,500
2.	Portable Autoclave 8 x 8 x 16" - 4 each	.....	\$ 3,200
3.	Solution Warming Cabinets 2 each	.....	\$ 9,200

SUB - TOTAL \$ 28,900

C. LABORATORY WASH AND STERILIZATION ROOM

1.	Lab Glass ware washer 16" x 16" 1 each	.....	\$ <u>4,200</u>
2.	Pipette Washer 1 each	.....	\$ <u>4,500</u>
3.	12 G/HR Deionizer 1 each	.....	\$ <u>200</u>
4.	Hot Air Sterilizer 19"x 14" x 19" - 1 each	\$ <u>1,800</u>
5.	Lab. Sterilizer 20" x 20" x 30" - 1 each	\$ <u>15,800</u>
6.	Drying Cabinet	\$ <u>1,800</u>
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SUB - TOTAL			\$ 28,300

D. ANIMAL EXPER. EQUIPMENT

1.	Cage and Bottle Washer 1 each	\$ <u>6,100</u>
2.	Gen. Purpose Sterilizer 1 each	.....	\$ <u>14,500</u>
3.	Washer Sterilizer 1 each	.....	\$ <u>7,000</u>
4.	Animal Autopsy Tables 2 each	.....	\$ <u>3,100</u>
5.	Animal Surgery Tables 2 each	\$ <u>2,100</u>
6.	Animal Mortuary Refrig. 1 ea	\$ <u>3,500</u>
7.	Incinerator - 1 each	\$ <u>8,200</u>
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SUB-TOTAL			\$ 44,500

SURGICAL EQUIPMENT

1.	O.R. Lamps with Satellite Lamps 2 each	\$ 3,800
2.	Operating Light for Endoscopy and Cysto. Rooms	.....	\$ 1,890
3.	Transformer - 1 each	.....	\$ 2,200
4.	Operating Tables 2 each	.....	\$ 5,310
5.	Electro. Surg. Equip. 3 sets	.....	\$ 2,180
6.	Cysto Room Tables and Accessories 2 each	.....	\$ 9,400

SUB- TOTAL \$ 27,960