

Mr. P.B. Dunthorne,
Southern Works Organisation,
Tadley.

21st December 1959

N.I.R.N.S.

Phase II - Building Estimates

I attach the revised estimates of costs on each of the Phase II Sanction Numbers as agreed at the Rutherford Laboratory Building Committee Meeting held in Mr. Bowles' office on Thursday, the 17th December 1959.

In all cases the revised estimate is within the sum approved by the Treasury.

G.N. VENN
Estimates & Sanctions Group
Rutherford Laboratory.

Copies to: Mr. P. Bowles,
Mr. J.C. Louth,
Mr. M. Snowden,
Mr. A. Miller,
Mr. G.M. Harbert,
Mr. H.J. Smith,
Mr. R.D. Oliver,
Mr. L. Carter.

N.I.R.N.S. - Phase II

Extension to Engineering Laboratory (Arcon) - including Heavy Equipment Stores

Sanction 703

Revised Estimate of Costs agreed by

Rutherford Laboratory Building Committee on 17.12.59.

<u>Item</u>	<u>Estimate</u>	<u>Remarks</u>
<u>ARCHITECTS</u> Building	48,000	
<u>ENGINEERS</u> Mechanical Services and Heating	2,000	
Modification to existing Crane	3,000	
Elec. Services	7,000	
	<hr/>	
	12,000	
<u>ROADS</u>		£3,500 to be charged to Sanction 702
<u>DRAINAGE</u>		£1,000 to be charged to Sanction 702
<u>FEES</u>	6,000	
<u>TOTAL</u>	£66,000	

G.N. VENN
Estimates & Sanctions Group
Rutherford Laboratory

Building 412.

21st December 1959

U. I. R. U. S. - Phase II

Laboratory and Office Building - (Building Nos. 470.11 and 470.12)
Sanction Nos. 702, 705 and 706

Estimate of Costs agreed by Rutherford Laboratory Building Committee

Item	Estimate	Remarks
<u>ARCHITECTS</u> Building	187,000	Revised scheme accepted with accommodation reduced by one bay only on the original scheme.
<u>ENGINEERS</u> (Mechanical Services) Heating and hot water) Lift	15,600 5,000	
Lighting and small power Switchgear Cable feed	15,700 2,500 <u>1,500</u>	
<u>ROADS</u>	40,300	
<u>DRAINAGE</u>	10,500	This figure includes £3,500 transferred from H ₂ Bubble Chamber Estimate and £3,500 from the Arcon Extension Estimate.
<u>FURNITURE</u>	8,000	This figure includes £1,000 transferred from H ₂ Bubble Chamber Estimate and £1,000 from Arcon Extension Estimate.
<u>FEES</u>	15,000	
<u>TOTAL</u>	27,000	
<u>TOTAL</u>	£287,800	

F.B. Total Approved Sum on Sanctions 702, 705 and 706 is £270,000 + £27,000 for fees.
 The above estimate leaves £9,200 in hand for painting, attendance on other trades, etc.

Building 412.
 21st December 1959

G. H. VENN
 Estimates & Sanctions Group

ESTIMATES
 Hydrogen Bubble Chamber Plant Building - Sanction No. 701
 Estimate of Costs agreed by Rutherford Laboratory Building Committee

Item	Estimate	Charged to Building Sanction No. 701	Charge to H ₂ Bubble Chamber Plant	Plant Project No.	Charged to Hired Sanction No. 026	Remarks
<u>ARCHITECTS</u>						
Safety Vessel Pit	3,000	-	3,000	NR0/20/55	-	
Tunnel to Annexe	3,500	1,580	-		3,500	Not to be charged to Sanction 701. Separate approval will be sought.
General Excavation	1,580	34,320	-			
Plant Building	34,320	3,600	-			
L.T. Annexe	3,600	3,600	-			
H.T. Annexe	3,500	3,500	-			
<u>ENGINEERS</u>						
8 ton Crane	5,000	-	5,000	NR0/20/81		
Cooling of Motor-generators	6,500	-	6,500	NR0/20/14		
Heating & hot water services	1,300	1,300	-			
H ₂ Detection	1,500	-	1,500	NR0/20/28		
Incoming mains (tech.)	1,400	1,400	-			
Tech. services (air)	200	200	-			
Lighting & small power	2,500*	2,500*	-			* Not agreed to be reconsidered by Herz & Caldwell
A.G. Switchgear (415V)	3,000	-	3,000	NR0/20/71		
A.G. Transformer (L.T.)	1,600	-	1,600	NR0/20/72		
A.G. Cabling	5,000	-	5,000	NR0/20/73		
D.C. Cabling	8,000	-	4,500	NR0/20/15	3,500	8,000 amp. cabling to annexe charged to Plant. 4,000 amp. cabling to Magnet. Octants charged to Sanction No. 026.
002 Fire Protection	1,000	-	1,000	NR0/20/83		
<u>ROADS</u>						
<u>DEBRIDGE</u>						
<u>FEES</u>						
	37,000	5,400	-) Transferred to Lab. & Office Building) on Sanction No. 702.
	8,500	4,100	-			
<u>TOTAL</u>	£95,000	£52,500	£35,500		£7,000	

Building 412.
 1st December 1959.

G.M. VERN
 Estimates & Sanctions Group
 Rutherford Laboratory