

July 29th, 1959.

NI(GP)(59) 18

NATIONAL INSTITUTE FOR RESEARCH IN NUCLEAR SCIENCE

Proposed Contracts for Approval

Note by the Chairman.

1. The NIMROD Project Committee request approval for placing a contract for drift tube assemblies with Messrs. B. O. Morris, the lowest tenderers. The Project Committee's report and recommendation is enclosed (PSPC/50). The cost is £55,703. 9. Od. and is covered by approved estimates.
2. Dr. Pickavance requests approval for placing with Messrs. R. Brotherhood, the lowest tenderers, a contract for hydrogen compressors, part of the approved project for bubble chamber services (G.P.C. fourth 1958 meeting, minute 5). A report on the tenders is enclosed (NEPC/P2) (This report has been prepared by a Nuclear Equipment Project Committee, recently formed at the Rutherford Laboratory under the chairmanship of Mr. L. B. Mullett, to consider proposals which are outside the scope of the NIMROD Project Committee) The total cost is not to exceed £17,500 and is covered by approved estimates.
3. It is desired to place these contracts before the next meeting of the General Purposes Committee (July 29th). I would be grateful, therefore, if members of the General Purposes Committee, would let the Secretary know by 20th July whether they approve the placing of the two contracts as recommended.

If there are no objections to these proposals, I will approve them on behalf of the Committee.

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For the attention of members of the General Purposes Committee, and for the information of members of the Governing Board.

DRIFT TUBE ASSEMBLIES FOR NIMROD INJECTOR

TENDER SUMMARY AND RECOMMENDATION

1. INTRODUCTION.

A survey of possible manufacturers was made and those considered competent were invited to tender. The tender schedule called for separate quotations for

- (a) supply of materials, manufacture of all components partial assembly and testing
- (b) development of copper welding techniques necessary for final assembly
- (c) final assembly and testing.

This breakdown was made to allow, if desirable, the use of two firms, one responsible for manufacture of components and the other for the final assembly.

A tender summary is given in Table I.

2. DISCUSSION.

The lowest quotation is from Messrs. B. O. Morris Ltd., of Coventry and includes all aspects of the tender schedule; it is technically acceptable and meets delivery requirements. They propose to sub-contract the copper welding work to a specialist firm, Messrs. Freeman & Proctor of Nuneaton, who would carry out the final welding at the works of Messrs. B. O. Morris Ltd., A visit has been made to Messrs. Freeman & Proctor and they are considered to be technically suitable.

3. FINANCIAL IMPLICATIONS.

The figure of £55,703. 9. 0 quoted by Messrs. B. O. Morris Ltd., does not call for any adjustment to the estimate for the injector. The majority of the expenditure will be incurred during the financial year 1959/60.

4. RECOMMENDATION

It is recommended that the contract be placed with Messrs. B. O. Morris Ltd.,

D. W. FRY

CHAIRMAN, PROJECT COMMITTEE

TABLE I.

SUMMARY OF TENDERS.

	TENDERER	PRICE	DELIVERY
GROUP 1	Messrs. B. O. Morris Ltd.,	£55,703. 9. 0	As required
	Vickers Armstrong (Aircraft) Ltd.,	£62,228.18. 4	"
	Messrs. H. M. Hobson Ltd.,	£65,599.13. 3	"
	Sir W. G. Armstrong-Whitworth Aircraft Ltd.,	£92,265. 0. 1	Late
	Messrs. D. Napier & Son Ltd.,	£106,227. 0. 0	Unspecified
	De Havilland Engine Co. Ltd.,	No offer	
	Messrs. Moore's(Bournemouth) Ltd.,	"	
GROUP 2	Dowty Nucleonics Ltd.,	£92,307. 7.10	Late
	Test Equipment Ltd.,	£103,560. 0. 0	As required
GROUP 3	London Aluminium Co. Ltd.,	£2,900. 0. 0 (ceiling price)	As required

GROUP 1

Invited to tender for manufacture of all components, development of copper welding techniques, final assembly and testings.

GROUP 2

Invited to tender for manufacture, partial assembly and testing.

GROUP 3

Invited to tender for development of copper welding techniques, final assembly and testing.

The relevant specification is PS.247 - 028

Nuclear Equipment Project Committee
Hydrogen Bubble Chamber Services

Hydrogen Compressors- CON/HAR/2C/40380/PS (PQ/PS/1405)

1. This contract relates to the manufacture, delivery, installation, and testing of two compressors, each capable of aspiring 200 cu.ft. of free hydrogen/min. at an inlet pressure of 14.5 p.s.i.a. and 70°F delivery against a pressure of 2,400 p.s.i.g. at not more than 25°F above the inlet cooling water temperature.
2. Tentative enquiries have been made to eighteen manufacturers of compressors of the size required.
3. The three manufacturers whose replies indicated that they could offer suitable compressors, together with three manufacturers not previously contacted added by AERE contracts office, have been invited to tender to Specification No. P.S. 20/24 - 043.

Three have declined to tender, details of the three tenders received are given below:-

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|-----|--|-------------------------|
| 3.1 | <u>Peter Brotherhood Ltd.</u> | £15,816 (2 compressors) |
| | Hydrogen Compressors | 168 (Spares) |
| | 125 B.H.P. | £15,984 |
| | Running Speed 425 RPM | <u>Total</u> |
| 3.2 | <u>Reavell & Co Ltd. (Late Tender)</u> | |
| | Hydrogen Compressors | £17,612 (2 compressors) |
| | 135 BHP | 266 (Spares) |
| | Running Speed 380 RPM | <u>£17,878</u> |
| 3.3 | <u>G & J Weir Ltd</u> | |
| | Modified Air Compressors | £22,320 (2 compressors) |
| | 140 BHP | 480 (spares) |
| | Running speed 375 RPM | <u>£22,800</u> |

The tender from Peter Brotherhood Ltd at 3.1 and Reavell & Co Ltd at 3.2 are equally acceptable technically, the former being the lowest priced offer.

4. Recommendations

1. That a contract be placed with Messrs. Peter Brotherhood Ltd., in accordance with Tender No CON/HAR/2C/4038/PS at a price of £15,984.
2. That financial authority be given for up to £17,500 to be spent on this work. The additional financial price is to allow for minor adjustments between Peter Brotherhoods offer and our requirements.

NOTE: These compressors are part of the equipment for which approval was given by the GPC reference NI(GP)(58)18, and the cost is within the overall estimate then given.

L. B. Mullett
 Chairman - Nuclear
 Equipment Project Committee Rutherford Lab.