

11 April 1963
CF63/307

Headquarters Air Force
P. O. Box 1407
Main Post Office
Washington, D. C.

Attention:

Subject: Quotation No. ES 20793
Linear Phasolver

Gentlemen:

We are pleased to submit this technical and cost proposal for the development and demonstration of a system which will measure linear movement with an accuracy of one micron (0.000040 inches) and will exhibit a resolution of one-quarter micron.

The total cost of this Cost-Plus-Fixed-Fee program will be:

which is substantiated by the attached cost breakdown and program plan contained in the technical proposal.

For the past several years we have been engaged in the development and production of advanced precision encoder systems. Our patented system, the Phasolver*, has found application on large radio telescopes and in space environments typified by positioning the star-trackers on the Orbiting Astronomical Observatory.

The advantages of minimal mechanical connections eliminating gearings and brushes, completely avoiding optical reliability problems, insensitivity to eccentricity, vibration, tilt and rigid environmental conditions all contribute to the extreme accuracy and high reliability these systems demonstrate.

* Phasolver is the Trade Mark of

NGA Review Complete

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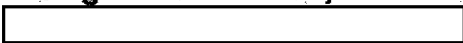


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The enclosed technical proposal delineates in detail the basic theory of the Phasolver's operation, the approach we intend to follow in the accomplishment of the work task described, and the background and qualifications of the corporation and its personnel which bear directly upon the program.

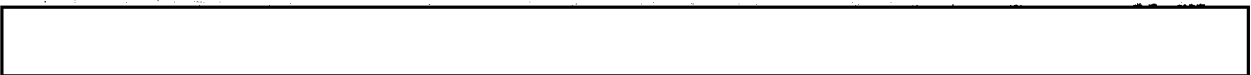
For a comprehensive review of our proposal without going into the deep technical area, we recommend that you read the following sections in the order listed: Summary; Section 1 (Introduction); Section 3 (Program Organization); and Section 4 (Program Schedule).

Attachment 1 to this letter provides costing information which we feel represents a true and accurate appraisal of the engineering and production work required. Our prices are based on a Cost-Plus-Fixed-Fee Contract. The contract will be so administered that a reserve will always be available for the preparation of a comprehensive engineering report at the completion of both phases of this task. Our estimated costs are based upon the assumption that all testing and feasibility demonstrations will be conducted at our facility in . If tests are required at other locations we will be happy to negotiate any additional costs involved. Our quotation is valid for a period of ninety (90) days.

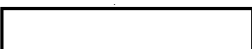
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We appreciate the opportunity of participating in this very important program and are confident that our proposal will receive favorable consideration. If further clarification of this proposal is required please contact

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Sincerely,


Sales Manager

ODP:dm

Enclosures: Technical Proposal
 Cost Breakdown

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TECHNICAL BACKGROUND PROCUREMENT INFORMATION

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I. Contractor

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B. Evaluation of previous performance: No record available

II. Brief description of this procurement: Feasibility study of a new measurement technique for large format comparators

Estimated total amt. [Empty box]

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A. Deliverable items: Final Report and hardware built in support of the project. No useable piece of equipment will result.

B. Is this procurement for other than a standard, "off the shelf" or slightly modified commercial item? YES If "yes", is it anticipated that any more of this unit will be procured? YES If so, a complete set of directly reproducible manufacturing drawings and specifications would normally be included in this procurement. Comments:

Manufacturing drawings and specifications to the extent practicable for follow on procurement

C. Will contract cover a period of more than 90 days? YES If "yes", are progress reports desired? YES If so, indicate frequency, content and number of copies desired: Monthly, including technical progress made during reporting period. Percentage complete and percentage of funds expended at end of each reporting period.

D. Is any Government-owned property to be provided to the contractor? NO If so, list and indicate its availability (where, when, etc.)

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E. Is any special tooling involved? YES

F. Security:

1. Association with the Sponsor is Secret

2. The specifications and/or drawings are Unclassified

3. The item is Unclassified

4. Contractor personnel known to be aware of this proposed procurement:

[Redacted Box]

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5. Other security information _____

III. Reasons for selection of this source. If other sources were considered, indicate results. If no other sources were considered, list the reasons why this firm is considered to be uniquely qualified to perform this work.

The item under consideration for development has been under production for some time in a different form (angular). What we propose doing is developing it in a linear form for incorporating in future computer development. This is a proprietary item with telecomputing and no other company has the capability at this time.

IV. Technical contact

[Redacted Box]

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In the event additional space is required, use the reverse side(s) of this form, with a reference to the item number to which the comment applies.

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