SPECIFICATION S-00-001

SPECIAL CONDITIONS

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Donated By:
Herbert Rogers Jr.
Rogers Engineering Co.

FOR

HGP-A WELLHEAD GENERATOR
PROOF-OF-FEASIBILITY PROJECT

Prepared by

ROGERS ENGINEERING CO., INC.
SAN FRANCISCO, CALIFORNIA

4	7/2/79	Revised Shipment Consignment Instructions	MON	FARRINGTON 9-7-79	
3	4/10/79	Revised Shipment Consignment Instructions	MON	FARRINGTON 4-10-79	
2	3/22/79	Revised for Equipment & Material Purchase	MON	FARRINGTON 3-22-79	
1	11/27/78	Issued for Equipment & Material Purchase	AB	FARRINGTON 11-27-78	
0	10/25/78	Issued for Approval	AB. Ck	FARRINGTON 11-27-78	LOPEZ 11-16-78
No. Date Description				R.App	C.App

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111 PINE STREET
SAN FRANCISCO, CALIF. 94111

HGP-A Hawaii
3 MW Geothermal Power Plant

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JOB NO. S-78020-00

Client RCUH

Date 10/25/78

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SPECIAL CONDITIONS

SPECIFICATION No. S-00-001

1.0

SCOPE

This specification applies to the general requirements of all purchased materials and equipment and provides general instructions for Suppliers. Purchaser as referred to hereunder is the Research Corp. of University of Hawaii. Rogers Engineering Co., Inc. is the authorized representative of the Research Corp. of University of Hawaii with respect to purchases made under this specification.

2.0

GENERAL

2.1

The materials or equipment specification will designate whether the installation is outdoors or within an enclosure.

2.1.1

Outdoor equipment shall be constructed for continuous operation in a high humidity corrosive H₂S ambient environment.

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2.2 The order of precedence of documents listed below shall be:

2.2.1 Conditions in purchase order, with attached Material Requisition, specifications and Data Sheets.

2.2.2 Equipment drawings and data sheets as approved by Rogers.

2.2.3 Should Supplier discover any discrepancy or conflict between the various documents he shall request clarification from Rogers Engineering Co., Inc. Work performed before authorization by Rogers will be at Supplier's risk.

3.0 QUOTATIONS

3.1 Quotations shall include:

3.1.1 Net unit prices C.I.F. Hilo, Hawaii, U.S.A. with freight costs indicated as a separate item, and earliest shipment from plant.

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- 3.1.2 If any exceptions to specifications for specific equipment or for any reason equipment cannot be furnished to specifications without additional charges, a statement as to equivalence to specifications or the justification for the additional charge must be furnished.
- 3.1.3 Approximate shipping weights and weights per unit item.
- 3.1.4 Complete description of unit including materials of construction.
- 3.1.5 Typical outline, arrangement and sectional drawings for bid analysis.
- 3.1.6 Price breakdown for individual items as specified in Material Requisition.
- 3.1.7 Escalation and cancellation charges formula, if any.
- 3.1.8 Duties, taxes, tolls, export packing charges as separate items of cost.

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4.0

DRAWINGS AND DATA

4.1

Drawings and data requirements including time schedule are shown on the Material Requisition. These are considered as part of the quotation and purchase supply. Review of all drawings and data sheets by the Purchaser or his representative is required. Review of drawings and data sheets does not relieve Supplier of his obligations under the order.

4.2

Foundation and outline drawings must be certified correct and that as to dimensions and weights the equipment will conform to the drawings.

4.3

Supplier's drawings and data sheets shall show equipment numbers, Material Requisition number, purchase order number, Supplier's title, drawing and revision number all within a title block in the lower right hand corner of the sheet.

5.0

CORRESPONDENCE AND ADDRESSES

5.1

Quotations will be submitted, in quadruplicate, to:

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R.G. Brindle, Purchasing Manager
Rogers Engineering Co., Inc.
111 Pine Street
San Francisco, California 94111

Reference Job S-78020-44.

All matters dealing with specifications or engineering
data shall be referred to:

R.J. Farrington, Jr., Project Manager
Same address and reference as above

5.2

After purchase, drawings and data sheets will be sub-
mitted in transparency to:

R. J. Farrington, Jr., Project Manager
Job S-78020-44
Rogers Engineering Co., Inc.
111 Pine Street
San Francisco, California 94111

6.0

PREPARATION FOR SHIPMENT

6.1

All equipment shall be marked or have metal tags attached
showing equipment name, tag number, purchase order number
and Material Requisition number.

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6.2 Assembly drawings and operating instructions shall accompany shipment. This is in addition to drawings and data requirements of the Material Requisition.

6.3 Materials and equipment shall be protected from damage during shipment, handling, and the atmosphere by Supplier furnished cratings, coatings, plugs, etc. All equipment shall be crated for commercial export.

6.4 Shipment consignment address for U.S. purchases is:

Port of Hilo
RCUH Field Office
109 Holomua Street
Hilo, Hawaii 96720

Attention: Construction Manager, HGP-A Wellhead Generator Project
Phone: (808) 961-4423

Export licensing is not required.

6.5 All invoicing for equipment and materials should be sent to:

RCUH
402 Varsity Bldg.
1110 University Avenue
Honolulu, Hawaii 96826

Attention: Louis P. Lopez

with a copy to Rogers Engineering Co., Inc.

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6.6

Prior to or upon shipment, copies of the following documents should be sent to:

Rogers Engineering Co., Inc.

111 Pine Street

San Francisco, California 94111

Attention: R.J. Farrington

Copies

Document Name

1	Packing List
1	Shipping documents
3	Commercial Invoice

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Notification of Shipment

Honolulu Freight Service shall provide all freight forwarding services for shipment of materials and equipment purchased for this project. The Supplier shall contact Rogers Engineering Co., Inc. verbally no less than 30 days prior to the date material or equipment is ready for ground or ocean transport by Honolulu Freight Service and shall confirm in writing within one week thereafter. Contact at Rogers for notification of readiness to ship shall be as follows:

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Rogers Engineering Co., Inc.
111 Pine Street
San Francisco, California 94111

Attention: Michael O'Neill
Assistant Project Manager
(415) 986-6546

Rogers Engineering Company will notify Honolulu Freight Service that the material or equipment is ready for shipment. Further detail coordination of exact shipping dates and times following the 30 day notice shall be directed to Honolulu Freight Service as follows:

Honolulu Freight Service
608 McClary Avenue
Oakland, California 94621

Attention: Larry McCrary, Vice President
Hawaii Geothermal Project

7.0

TITLE TO OWNERSHIP

Title will pass from Supplier to Purchaser after inspection at destination by Purchaser, when material is received FAS Hilo, Hawaii.

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8.0 GOVERNING CODES AND LAWS

8.1 All equipment and materials as supplied must comply with applicable ordinances, codes, laws, and safety requirements of the authorities having jurisdiction in the State of Hawaii. In addition all equipment must meet the code requirements as specified in the equipment specifications or Material Requisition.

9.0 UNION LABELS AND REGULATIONS

9.1 It is the responsibility of the Supplier to provide the materials or equipment with acceptable provisions so that Purchaser is held harmless to any craft or Labor Union hindrance to job progress.

10.0 GUARANTEES (In lieu of specific guarantees stated in specifications)

The Supplier shall guarantee that all equipment material furnished is free from fault in design, workmanship or material and is of sufficient size and capacity and of proper materials to fulfill the operating conditions specified. Should any defect in the above characteristics develop during the first year of operation, the Supplier

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shall agree to make all necessary repairs, alterations, or replacements free of charge, and at convenience of the Purchaser. If the defect cannot be corrected within a convenient period to the Purchaser, the Supplier will agree to replace the equipment or material and refund the full purchase price. Material or equipment repaired under the guarantee shall be guaranteed from date of repair or replacement for the same period as the original equipment.

11.0

TOOLS

The Supplier will furnish all special tools required for the installation, operation, and maintenance of equipment furnished by him. These special tools will be noted in his quotation.

12.0

INSPECTION AND TESTS

The Purchaser reserves the right for himself or his representative to inspect all equipment at all reasonable times in the shops of the Supplier. The Supplier shall notify the Purchaser ten (10) days in advance of the date the equipment is ready for performance testing or final inspection, when required. Some items will be inspected or performance tested as required and specified in Material

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Requisition at the job site. If the Supplier does not have facilities for performance testing at his shop, he shall state so in his quotation.

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