

Posting Date: August 26, 2021

Closing Date: September 5, 2021 11:30 a.m. ET

Reference Number: 21-052458

To: NCI Bid Board

From: Tanika Crossen
NCI P-ARC Program Analyst
crossent@nih.gov

Subject: NCI Bid Board Posting – to purchase an electrophoration instrument

Among the defining concepts of the Genetics Branch is one that underlies its basic research focus and others that form the foundation of its clinical and translational research activities. The concept that underlies basic research is that cancer is a genetic disease caused by genetic instability. That instability is a function of all the inherited and acquired effects that mediate plasticity and alterability at the level of DNA. The success of molecular genetics over the past two decades has been the identification of genes involved in pathways of growth and development, and the identification of the mechanisms by which the normal regulation and/or products of these genes are altered in cancer. The elucidation of the necessary and sufficient factors that govern genetic instability, the description of the common and disparate themes among different types of instability, and the cataloging of distinct patterns of gene expression in tumors compared to the normal tissues from which they arise are within the purview and distinct perspective of this branch. There is, in addition, a clinical/translational mantle that this branch is called upon to shoulder.

The U.S Department of Health and Human Services (HHS), National Institutes of Health (NIH), National Cancer Institute (NCI), Center for Cancer Research (CCR), Genetics Branch (GB)/Oncogenomics Section is currently developing novel therapeutic agents and targets for treating pediatric cancers using findings of comprehensive genomic and epi-genomic studies. The CCR/GB has developed cancer cell lines with different reporters for high-throughput screen of compound, antibody-based and cell- based adoptive cancer therapies. Several routinely used assays including cell viability assay, cell growth assay, apoptosis assay, and cell killing assay. The Nucleofector Technology offers a higher transfection efficiency than other non-viral transfection methods and can facilitate numerous applications, such as therapeutic gene knock-down via RNAi2 or CRISPR3 and the generation of induced pluripotent stem cells4 or CAR-T5, among many others. This can be used in many different lines of research, including functional and structural genomics, drug discovery, and gene and cell therapy.

Sole Source Justification:

Lonza is the sole company which develops and commercializes the Nucleofector™ Technology, and to date the Nucleofector™ Technology is not available from any distributor or dealer within the territory of United States.

Attached Documents:

SF18

Statement of Work

FAR Clause 52.204-24 Representation Regarding Certain Telecommunications and Video Surveillance Services or Equipment

FAR Clause 52.213-4 Simplified Acquisitions Terms and Conditions (AUG 2020) is applicable and available in full text upon request.

REQUEST FOR QUOTATION (THIS IS NOT AN ORDER)	THIS RFQ <input type="checkbox"/> IS <input checked="" type="checkbox"/> IS NOT A SMALL BUSINESS SET-ASIDE	PAGE 1 OF 1 PAGES 1
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1. REQUEST NO. 21-052458	2. DATE ISSUED 8/26/2021	3. REQUISITION/PURCHASE REQUEST NO.	4. CERT. FOR NAT. DEF. UNDER BDSA REG. 2 AND/OR DMS REG. 1	RATING
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5a. ISSUED BY NCI CCR Purchasing Administrative Resource Center	6. DELIVER BY (Date)
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5b. FOR INFORMATION CALL (NO COLLECT CALLS)	7. DELIVERY <input checked="" type="checkbox"/> FOB DESTINATION <input type="checkbox"/> OTHER (See Schedule)	9. DESTINATION
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NAME Tanika Crossen, Program Analyst	TELEPHONE NUMBER AREA CODE NUMBER 301 480-0602	a. NAME OF CONSIGNEE NIH, NCI
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8. TO: a. NAME	b. COMPANY Lonza	b. STREET ADDRESS
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c. STREET ADDRESS	c. CITY Bethesda
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d.. CITY	e.. STATE MD	f.. ZIP CODE 20892	d.. STATE e. ZIP CODE MD 20892
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10. PLEASE FURNISH QUOTATIONS TO THE ISSUING OFFICE IN BLOCK 5a ON OR BEFORE CLOSE OF BUSINESS (Date) 9/5/2021 11:30 EST	IMPORTANT: This is a request for information, and quotations furnished are not offers. If you are unable to quote, please indicate on this form and return it to the address in Block 5a. This request does not commit the Government to pay any costs incurred in the preparation of the submission of this quotation or to contract for supplies or services. Supplies are of domestic origin unless otherwise indicated by quoter. Any representations and/or certifications attached to this Request for Quotations must be completed by the quoter.
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11. SCHEDULE (Include applicable Federal, State and local taxes)

ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)
	Purchase a electrophoration instrument Notice of Intent: If submitting a capability statement, please e-mail only 1 copy of the technical capability statement to Tanika Crossen @ crossent.mail.nih.gov See attached statement of need This will be awarded as a Firm-Fixed Price Contract.				

12. DISCOUNT FOR PROMPT PAYMENT	a. 10 CALENDAR DAYS (%)	b. 20 CALENDAR DAYS (%)	c. 30 CALENDAR DAYS (%)	d.. CALENDAR DAYS NUMBER PERCENTAGE
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NOTE: Additional provisions and representations are are not attached.

13. NAME AND ADDRESS OF QUOTER	14. SIGNATURE OF PERSON AUTHORIZED TO SIGN QUOTATION	15. DATE OF QUOTATION
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a. NAME OF QUOTER	16. SIGNER	
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b. STREET ADDRESS	a. NAME (Type or print)	b. TELEPHONE AREA CODE
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c. COUNTY	e. STATE	f. ZIP CODE	c. TITLE (Type or print)	NUMBER
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STATEMENT OF NEED (SON)

1.0 TITLE

4D-Nucleofector Core with X Unit

2.0 BACKGROUND

The U.S Department of Health and Human Services (HHS), National Institutes of Health (NIH), National Cancer Institute (NCI), Center for Cancer Research (CCR), Genetics Branch (GB)/Oncogenomics Section is currently developing novel therapeutic agents and targets for treating pediatric cancers using findings of comprehensive genomic and epi-genomic studies. The CCR/GB has developed cancer cell lines with different reporters for high-throughput screen of compound, antibody-based and cell- based adoptive cancer therapies. Several routinely used assays including cell viability assay, cell growth assay, apoptosis assay, and cell killing assay. The Nucleofector Technology offers a higher transfection efficiency than other non-viral transfection methods and can facilitate numerous applications, such as therapeutic gene knock-down via RNAi² or CRISPR³ and the generation of induced pluripotent stem cells⁴ or CAR-T⁵, among many others. This can be used in many different lines of research, including functional and structural genomics, drug discovery, and gene and cell therapy.

3.0 TYPE OF ORDER

This is a Firm Fixed-Price Purchase Order.

4.0 SPECIAL ORDER REQUIREMENTS

4.1 PRODUCT FEATURES/SALIENT CHARACTERISTICS

The Nucleofector™ Technology uses a specific combination of optimized electrical parameters and cell type-specific solutions which enables transfer of a molecule directly into the cells' nucleus. Due to this independency from cell proliferation, it allows for efficient transfection of even non-dividing primary cells (like resting T cells or neurons) and also speeds up expression. The Nucleofector™ Technology offers a higher transfection efficiency than other non-viral transfection methods (including traditional electroporation¹) by offers various advantages over traditional electroporation methods which include High transfection efficiencies of up to 90% for plasmid DNA and 99% for oligonucleotides, like siRNA; excellent preservation of the physiological status and viability of transfected cells; analysis of transfection results already shortly after transfection possible; transfection of a wide range of substrates, including DNA, mRNA, miRNA, siRNA, peptides or proteins, and transfection of hard-to-transfect cells, including primary cells, stem cells, neurons and cell lines, as well as cells in adherence.

The following product features/characteristics are required for this requirement:

STATEMENT OF NEED (SON)

- capability of parameter transfer from low to high cell numbers
- transfer of protocols between the platforms
- no aluminium ion release during Nucleofection process
- modular system features addition of other functional transfection units

4.2 DELIVERY / INSTALLATION

Delivery shall be 4-6 weeks of purchase order award. The Contractor shall provide the NCI Technical Point of Contact (TPOC), *TBD at award*, with tracking information to anticipate delivery to the best extent possible. All shipping/handling (including FOB) and delivery/installation fees shall be included in the quote. Upon delivery, the Contractor shall notify the TPOC to schedule the installation date and time that shall occur within 5 business days of delivery. Installation shall be performed by, or under the direct supervision of, an Original Equipment Manufacturer (OEM) certified operator.

The Contractor shall deliver and install the equipment at the following address:

37 Convent Dr.,
Room 2016 Building 37,
Bethesda, MD 20892
E-mail address: weij@mail.nih.gov
Phone Number: 240.760.7428

4.3 TRAINING

The contractor will offer a virtual installation and training that is free of charge.

52.204-24 Representation Regarding Certain Telecommunications and Video Surveillance Services or Equipment.

As prescribed in 4.2105(a), insert the following provision:

REPRESENTATION REGARDING CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT (AUG 2019)

(a) Definitions. As used in this provision—

Covered telecommunications equipment or services, Critical technology, and Substantial or essential component have the meanings provided in clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

(b) Prohibition. Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. Contractors are not prohibited from providing—

- (1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or
- (2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(c) Representation. The Offeror represents that—

It [] will, [] will not provide covered telecommunications equipment or services to the Government in the performance of any contract, subcontract or other contractual instrument resulting from this solicitation.

(d) Disclosures. If the Offeror has responded affirmatively to the representation in paragraph (c) of this provision, the Offeror shall provide the following information as part of the offer—

- (1) All covered telecommunications equipment and services offered (include brand; model number, such as original equipment manufacturer (OEM) number, manufacturer part number, or wholesaler number; and item description, as applicable);
- (2) Explanation of the proposed use of covered telecommunications equipment and services and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b) of this provision;
- (3) For services, the entity providing the covered telecommunications services (include entity name, unique entity identifier, and Commercial and Government Entity (CAGE) code, if known); and
- (4) For equipment, the entity that produced the covered telecommunications equipment (include entity name, unique entity identifier, CAGE code, and whether the entity was the OEM or a distributor, if known).

(End of provision)

52.213-4 Terms and Conditions-Simplified Acquisitions (Other Than Commercial Items).

As prescribed in [13.302-5\(d\)](#), insert the following clause:

TERMS AND CONDITIONS-SIMPLIFIED ACQUISITIONS (OTHER THAN COMMERCIAL ITEMS) (AUG 2020)

(a) The Contractor shall comply with the following Federal Acquisition Regulation (FAR) clauses that are incorporated by reference:

(1) The clauses listed below implement provisions of law or Executive order:

(i) [52.203-19](#), Prohibition on Requiring Certain Internal Confidentiality Agreements or Statements (JAN 2017) (section 743 of Division E, Title VII, of the Consolidated and Further Continuing Appropriations Act, 2015 (Pub. L. 113-235) and its successor provisions in subsequent appropriations acts (and as extended in continuing resolutions)).

(ii) [52.204-23](#), Prohibition on Contracting for Hardware, Software, and Services Developed or Provided by Kaspersky Lab and Other Covered Entities (JUL 2018) (Section 1634 of Pub. L. 115-91).

(iii) [52.204-25](#), Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment. (AUG 2020) (Section 889(a)(1)(A) of Pub. L. 115-232).

(iv) [52.222-3](#), Convict Labor (JUN 2003) (E.O.11755).

(v) [52.222-21](#), Prohibition of Segregated Facilities (APR 2015).

(vi) [52.222-26](#), Equal Opportunity (Sept 2016) (E.O.11246).

(vii) [52.225-13](#), Restrictions on Certain Foreign Purchases (Jun 2008) (E.O.s, proclamations, and statutes administered by the Office of Foreign Assets Control of the Department of the Treasury).

(viii) [52.233-3](#), Protest After Award (AUG 1996) ([31 U.S.C.3553](#)).

(ix) [52.233-4](#), Applicable Law for Breach of Contract Claim (OCT 2004) (Pub.L.108-77, 108-78 ([19 U.S.C. 3805 note](#))).

(2) Listed below are additional clauses that apply:

(i) [52.232-1](#), Payments (APR 1984).

(ii) [52.232-8](#), Discounts for Prompt Payment (FEB 2002).

(iii) [52.232-11](#), Extras (APR 1984).

(iv) [52.232-25](#), Prompt Payment (JAN 2017) .

(v) [52.232-39](#), Unenforceability of Unauthorized Obligations (JUN 2013).

(vi) [52.232-40](#), Providing Accelerated Payments to Small Business Subcontractors (DEC 2013).

(vii) [52.233-1](#), Disputes (MAY 2014).

(viii) [52.244-6](#), Subcontracts for Commercial Items (AUG 2020).

(ix) [52.253-1](#), Computer Generated Forms (JAN 1991).

(b) The Contractor shall comply with the following FAR clauses, incorporated by reference, unless the circumstances do not apply:

(1) The clauses listed below implement provisions of law or Executive order:

(i) [52.204-10](#), Reporting Executive Compensation and First-Tier Subcontract Awards (JUN 2020)(Pub. L. 109-282) ([31 U.S.C. 6101 note](#)) (Applies to contracts valued at or above the threshold specified in FAR [4.1403](#)(a) on the date of award of this contract).

(ii) [52.222-19](#), Child Labor-Cooperation with Authorities and Remedies (JAN 2020) (E.O.13126) (Applies to contracts for supplies exceeding the micro-purchase threshold, as defined in FAR [2.101](#) on the date of award of this contract).

(iii) [for Materials, Supplies, Articles, and Equipment](#), Contracts for Materials, Supplies, Articles, and Equipment (JUN 2020) ([41 U.S.C.chapter 65](#)) (Applies to supply contracts over the threshold specified in FAR [22.602](#) on the date of award of this contract, in the United States, Puerto Rico, or the U.S. Virgin Islands).

(iv) [52.222-35](#), Equal Opportunity for Veterans (JUN 2020) ([38 U.S.C.4212](#)) (Applies to contracts valued at or above the threshold specified in FAR [22.1303](#)(a) on the date of award of this contract).

(v) [52.222-36](#), Equal Employment for Workers with Disabilities (JUN 2020) ([29 U.S.C.793](#)) (Applies to contracts over the threshold specified in FAR [22.1408](#)(a) on the date of award of this contract, unless the work is to be performed outside the United States by employees recruited outside the United States). (For purposes of this clause, "United States" includes the 50 States, the District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, and Wake Island.)

(vi) [52.222-37](#), Employment Reports on Veterans (JUN 2020) ([38 U.S.C.4212](#)) (Applies to contracts valued at or above the threshold specified in FAR [22.1303](#)(a) on the date of award of this contract).

(vii) [52.222-41](#), Service Contract Labor Standards (AUG 2018) ([41 U.S.C.chapter 67](#)) (Applies to service contracts over \$2,500 that are subject to the Service Contract Labor Standards statute and will be performed in the United States, District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, Johnston Island, Wake Island, or the outer Continental Shelf).

(viii)

(A) [52.222-50](#), Combating Trafficking in Persons (JAN 2019) ([22 U.S.C. chapter78](#) and E.O 13627) (Applies to all solicitations and contracts).

(B) Alternate I (MAR 2015) (Applies if the Contracting Officer has filled in the following information with regard to applicable directives or notices: Document title(s), source for obtaining document(s), and contract performance location outside the United States to which the document applies).

(ix) [52.222-55](#), Minimum Wages Under Executive Order 13658 (DEC 2015) (Applies when [52.222-6](#) or [52.222-41](#) are in the contract and performance in whole or in part is in the United States (the 50 States and the District of Columbia)).

(x) [52.222-62](#), Paid Sick Leave Under Executive Order 13706 (Jan 2017) (E.O. 13706) (Applies when [52.222-6](#) or [52.222-41](#) are in the contract and performance in whole or in part is in the United States (the 50 States and the District of Columbia).)

(xi) [52.223-5](#), Pollution Prevention and Right-to-Know Information (MAY 2011) (E.O. 13423) (Applies to services performed on Federal facilities).

(xii) [52.223-11](#), Ozone-Depleting Substances and High Global Warming Potential Hydrofluorocarbons (JUN 2016) (E.O. 13693)(applies to contracts for products as prescribed at FAR [23.804](#)(a)(1)).

(xiii) [52.223-12](#), Maintenance, Service, Repair, or Disposal of Refrigeration Equipment and Air Conditioners (JUN 2016) (E.O. 13693) (Applies to maintenance, service, repair, or disposal of refrigeration equipment and air conditioners).

(xiv) [52.223-15](#), Energy Efficiency in Energy-Consuming Products (DEC 2007) ([42 U.S.C. 8259b](#)) (Unless exempt pursuant to [23.204](#), applies to contracts when energy-consuming products listed in the ENERGY STAR® Program or Federal Energy Management Program (FEMP)) will be-

(A) Delivered;

(B) Acquired by the Contractor for use in performing services at a Federally-controlled facility;

(C) Furnished by the Contractor for use by the Government; or

(D) Specified in the design of a building or work, or incorporated during its construction, renovation, or maintenance).

(xv) [52.223-20](#), Aerosols (JUN 2016) (E.O. 13693) (Applies to contracts for products that may contain high global warming potential hydrofluorocarbons as a propellant or as a solvent; or contracts for maintenance or repair of electronic or mechanical devices).

(xvi) [52.223-21](#), Foams (JUN 2016) (E.O. 13693) (Applies to contracts for products that may contain high global warming potential hydrofluorocarbons or refrigerant blends containing hydrofluorocarbons as a foam blowing agent; or contracts for construction of buildings or facilities).

(xvii) [52.225-1](#), Buy American-Supplies (MAY 2014) ([41 U.S.C. chapter 67](#)) (Applies to contracts for supplies, and to contracts for services involving the furnishing of supplies, for use in the United States or its outlying areas, if the value of the supply contract or supply portion of a service contract exceeds the micro-purchase threshold, as defined in FAR [2.101](#) on the date of award of this contract, and the acquisition-

(A) Is set aside for small business concerns; or

(B) Cannot be set aside for small business concerns (see [19.502-2](#)), and does not exceed \$25,000).

(xviii) [Excess Food Donation to Nonprofit Organizations](#), Promoting Excess Food Donation to Nonprofit Organizations (JUN 2020) ([42 U.S.C. 1792](#)) (Applies to contracts greater than the threshold specified in FAR [26.404](#) on the date of award of this contract, that provide for the provision, the service, or the sale of food in the United States).

(xix) [52.232-33](#), Payment by Electronic Funds Transfer-System for Award Management (OCT 2013) (Applies when the payment will be made by electronic funds transfer (EFT) and the payment office uses the System for Award Management (SAM) as its source of EFT information).

(xx) [52.232-34](#), Payment by Electronic Funds Transfer-Other than System for Award Management (JUL 2013) (Applies when the payment will be made by EFT and the payment office does not use the SAM database as its source of EFT information).

(xxi) [52.247-64](#), Preference for Privately Owned U.S.-Flag Commercial Vessels (FEB 2006) ([46 U.S.C.App.1241](#)) (Applies to supplies transported by ocean vessels (except for the types of subcontracts listed at [47.504\(d\)](#))).

(2) Listed below are additional clauses that may apply:

(i) [52.204-21](#), Basic Safeguarding of Covered Contractor Information Systems (JUN 2016) (Applies to contracts when the contractor or a subcontractor at any tier may have Federal contract information residing in or transiting through its information system.

(ii) [52.209-6](#), Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment (JUN 2020) (Applies to contracts over the threshold specified in FAR [9.405-2\(b\)](#) on the date of award of this contract).

(iii) [52.211-17](#), Delivery of Excess Quantities (*Sept* 1989) (Applies to fixed-price supplies).

(iv) [52.247-29](#), F.o.b. Origin (FEB 2006) (Applies to supplies if delivery is f.o.b. origin).

(v) [52.247-34](#), F.o.b. Destination (NOV 1991) (Applies to supplies if delivery is f.o.b. destination).

(c) FAR [52.252-2](#), *Clauses Incorporated by Reference (Feb 1998)*. This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

[Insert one or more Internet addresses]

(d) *Inspection/Acceptance.* The Contractor shall tender for acceptance only those items that conform to the requirements of this contract. The Government reserves the right to inspect or test any supplies or services that have been tendered for acceptance. The Government may require repair or replacement of nonconforming supplies or reperformance of nonconforming services at no increase in contract price. The Government must exercise its postacceptance rights-

(1) Within a reasonable period of time after the defect was discovered or should have been discovered; and

(2) Before any substantial change occurs in the condition of the item, unless the change is due to the defect in the item.

(e) *Excusable delays.* The Contractor shall be liable for default unless nonperformance is caused by an occurrence beyond the reasonable control of the Contractor and without its fault or negligence, such as acts of God or the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, unusually severe weather, and delays of common carriers. The Contractor shall notify the Contracting Officer in writing as soon as it is reasonably possible after the commencement of any excusable delay, setting forth the full particulars in connection therewith, shall remedy such occurrence with all reasonable dispatch, and shall promptly give written notice to the Contracting Officer of the cessation of such occurrence.

(f) *Termination for the Government's convenience.* The Government reserves the right to terminate this contract, or any part hereof, for its sole convenience. In the event of such termination, the Contractor shall immediately stop all work hereunder and shall immediately cause any and all of its suppliers and subcontractors to cease work. Subject to the terms of this contract, the Contractor shall be paid a percentage of the contract price reflecting the percentage of the work performed prior to the notice of termination, plus reasonable charges that the Contractor can demonstrate to the satisfaction of the Government, using its standard record keeping system, have resulted from the termination. The Contractor shall not be required to comply with the cost accounting standards or contract cost principles for this purpose. This paragraph does not give the Government any right to audit the Contractor's records. The Contractor shall not be paid for any work performed or costs incurred that reasonably could have been avoided.

(g) *Termination for cause.* The Government may terminate this contract, or any part hereof, for cause in the event of any default by the Contractor, or if the Contractor fails to comply with any contract terms and conditions, or fails to provide the Government, upon request, with adequate assurances of future performance. In the event of termination for cause, the Government shall not be liable to the Contractor for any amount for supplies or services not accepted, and the Contractor shall be liable to the Government for any and all rights and remedies provided by law. If it is determined that the Government improperly terminated this contract for default, such termination shall be deemed a termination for convenience.

(h) *Warranty.* The Contractor warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this contract.

(End of clause)