THIS CONTRACT IS A RATED ORDER UNDER DPAS(15CFR 700)

SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEM
OFFEROR TO COMPLETE BLOCKS 12, 17, 24, 43, 30

1. REQUISITION NUMBER
REQ-4500-10-0009

2. CONTRACT NO.
CPSC-D-06-0006

3. AWARD/ EFFECTIVE DATE
06/23/2010 0009

4. ORDER NUMBER

5. SOLICITATION NUMBER

6. SOLICITATION ISSUE DATE

7. FOR SOLICITATION INFORMATION CALL:

8. NAME
Kim Miles

9. TELEPHONE NUMBER
301-504-7018

10. THIS ACQUISITION IS
X UNRESTRICTED OR

11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS
SEE SCHEDULE

12. DISCOUNT TERMS
Net 30

13a. THIS CONTRACT IS A
RATED ORDER UNDER DPAS (15 CFR 700)

13b. RATING

14. METHOD OF SOLICITATION

15. DELIVER TO

16. ADMINISTERED BY

CONSUMER PRODUCT SAFETY COMMISSION
DIV OF PROCUREMENT SERVICES
4330 EAST WEST HWY
ROOM 517
BETHESDA MD 20814

VERSAR INC
ATTN PAUL KENDALL
6850 VERSAR CENTER STE 1
SPRINGFIELD VA 22151-4196

NOMINEE BUSINESS

17a. CONTRACTOR/ OFFEROR

18a. PAYMENT WILL BE MADE BY

18b. ADDRESS ON CHECKS
CONSUMER PRODUCT SAFETY COMMISSION
DIVISION OF FINANCIAL SERVICES
4330 EAST WEST HWY
ROOM 522
BETHESDA MD 20814

19. SCHEDULE OF SUPPLIES/SERVICES

20. QUANTITY

21. UNIT PRICE

22. AMOUNT

DUNS Number: [redacted]

TASK ORDER 0009

The contractor shall provide Toxicology Review Services in accordance with contract CPSC-D-06-0006, line item 0008 and the attached task order description of services

0001
Toxicology Review

Nanomaterial Toxicity Assessment

(Use Reverse and/or Attach Additional Sheets as Necessary)

25. ACCOUNTING AND APPROPRIATION DATA
0100A10DPS 2010 2370400000 EXHR004500 252H0

$225,523.50

26. TOTAL AWARD AMOUNT (For Govt. Use Only)

27a. SOLICITATION INCORPORATES BY REFERENCE FAR 52.212-1, 52.212-4, FAR 52.212-3 AND 52.212-5 ARE ATTACHED.
ADDENDA ARE NOT ATTACHED.

27b. CONTRACT PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-1, FAR 52.212-3 AND 52.212-5 IS ATTACHED.
ADDENDA ARE NOT ATTACHED.

28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED HEREIN.

29. AWARD OF CONTRACT REF. OFFER DATED YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS:

30a. SIGNATURE OF OFFERING CONTRACTOR

31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER)

31b. NAME OF CONTRACTING OFFICER (Type or print)

31c. DATE SIGNED

32a. NAME AND TITLE OF SIGNER (Type or print)

32b. DATE SIGNED

33a. PREVIOUS EDITION IS NOT USABLE

AUTHORIZED FOR LOCAL REPRODUCTION

STANDARD FORM 1449 (REV: 2/2009)
Prescribed by GSA - FAR (48 CFR) 53.212
<table>
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<th>ITEM NO.</th>
<th>SCHEDULE OF SUPPLIES/SERVICES</th>
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<th>UNIT</th>
<th>UNIT PRICE</th>
<th>AMOUNT</th>
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<tr>
<td>0002</td>
<td>Other direct cost associated with Nanomaterial Toxicity Assessment</td>
<td>EA</td>
<td></td>
<td>4,500.00</td>
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The total amount of award: $225,523.50. The obligation for this award is shown in box 26.
Contractor Task Description
Versar
Nanomaterial Toxicity Assessment

1. Background

There is a growing use of compounds or materials that have been produced using technologies (i.e., nanotechnologies) that directly manipulate matter at the atomic level and fabricate materials that could not have been produced in the past. Nanomaterials are defined as materials/particles that range from 1 to 100 nm in length. Although these materials may have the same chemical composition as non-nanomaterials, these new materials may demonstrate different physical and chemical properties; and they may behave differently in the environment and in the human body.

In the conference report on H.R. 4040, CPSIA of 2008, in its discussion on the authorization of appropriations (Section 201), Congress stated that it recognizes nanotechnology as a new technology utilized in the manufacture of consumer products, and that the Conferees expect the Commission to review the utilization and safety of its application in consumer products consistent with the Commission’s mission.

In FY’08 the U.S. Consumer Product Safety Commission (CPSC) initiated an Interagency Agreement with the National Institute for Occupational Safety and Health (NIOSH) to evaluate the particulate aerosol generated during use of an antimicrobial spray product containing TiO2 nanoparticles. The tests have been completed and confirmed the presence of nanoparticles in the aerosol spray. In 2009, the CPSC signed an IAG with NIST to quantify releases of carbon nanotubes that are used as flame retardants from treated mattress and upholstered furniture components. The CPSC has also signed an IAG with NIOSH and EPA to study the release of nanosilver from a variety of products including those used by young children.

2. Objective

The objectives of this task are to review all of the existing data relating to the toxicity of nanosilver, nanotitanium, and carbon nanotubes.

3. Description of Task

The Contractor shall provide documents that will include overviews of toxicological properties of nanoscale and non-nano Ag and TiO2, with a focus on nanoparticles of these materials, and overviews of information on nano-sized particles of carbon and a focus on carbon nanotubes. Single-walled and multi-walled carbon nanotubes will be discussed separately.

The contractor will:
- Evaluate pertinent toxicokinetic, toxicological, and mechanistic studies, including in vitro studies into potential mechanisms of action for nano materials.
- Identify NOAELs and LOAELs from pertinent toxicology studies,
- Draw conclusions about the weights of evidence associating exposure (by pertinent exposure routes to be determined with CPSC) with health hazards.
• Draw conclusions about the suitability of the available data for deriving ADIs for specific substances within the three classes of materials. This analysis will include examining the apparent critical effects identified from the available data and what might be prospective principal studies for ADI development.

Derivation of ADIs will include rationales for selection of the critical effect(s), principal study(ies), and points of departure. The ADIs will be for chronic duration of exposure, and will be based on a NOAEL/LOAEL approach. The contractor will provide proposals and rationales for uncertainty factors in the areas of 1) animal to human extrapolation, 2) human variability, and 3) extrapolation across duration (e.g., subchronic to chronic).

4. Deliverables or Performance

The Contractor shall provide the requested information in the form of a written report to the CPSC Project Officer within (90) days after the initial teleconference or meeting. The report shall be in the format of a scientific report with full citations, tables, and figures as appropriate. The reviewer shall e-mail the report to the Project Officer in a Microsoft Word (preferred) or WordPerfect file.

5. Delivery Schedule

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<tr>
<th>Item(s)</th>
<th>Quantity</th>
<th>Delivery or Performance</th>
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<tr>
<td>The CPSC Project Officer and Contractor will meet by teleconference or in person to discuss and initiate the project</td>
<td>1</td>
<td>June 2009</td>
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<tr>
<td>The CPSC Project Officer will be available to consult with the Contractor by teleconference or in person.</td>
<td>As appropriate</td>
<td>At the completion of each subtask, or monthly, whichever comes first.</td>
</tr>
<tr>
<td>The Contractor shall submit an outline of the final report to the CPSC Project Officer</td>
<td>1</td>
<td>Within 10 days after the initial teleconference or meeting</td>
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<tr>
<td>The Contractor shall submit a draft final report to the CPSC Project Officer.</td>
<td>1</td>
<td>Within 90 days after the phthalates are selected in consultation with the CPSC Project Officer.</td>
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<tr>
<td>The CPSC Project Officer will provide written comments on the draft final report to the Contractor.</td>
<td>1</td>
<td>Within 30 days after receipt of the draft final report.</td>
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<tr>
<td>The Contractor shall submit a final report to the CPSC Project Officer.</td>
<td>The Contractor will revise the draft final report as appropriate.</td>
<td>Within 30 days after receipt of comments.</td>
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<tr>
<td>Inspection and Acceptance</td>
<td>The Final report will be</td>
<td>Within 30 days after receipt of</td>
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6. Place of Delivery

U.S. Consumer Product Safety Commission
4330 East West Highway
Bethesda, MD 20814

CPSC Project Officers and contact information:

Treye A. Thomas, Ph.D.
tthomas@cpsc.gov
301-504-7738

7. Inspection and Acceptance

The Draft Final Toxicity Review report submitted to the U.S. Consumer Product Safety Commission will be reviewed within 30 days of receipt of the draft final report for any additional questions and/or comments. If returned to the Contractor as a result of the review, the Contractor shall address and/or revise their report accordingly and return the final version to the Project Officer within 30 days of receipt. The CPSC Project Officer will then have an additional 30 days to review the Final Toxicity Review report.

8. Requirement for CPSC Clearance

The final report is the property of the U.S. Consumer Product Safety Commission. The Contractor will not publish the final report, present the information at scientific meetings, or in any other way make the findings public in any form without the written permission of the Project Officer. Any publication must be cleared following CPSC procedures, as outlined in the Consumer Product Safety Act.
**Transaction Information**

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**Award ID:** 6100 0009 0 0

**Reason For Modification:**

**Solicitation ID:**

**Agency Procurement Identifier**

**Modification No**

**Trans No**

**Award Status:** Draft

**Last Modified Date:** 06/10/2010 12:22:10

**Last Modified User:** MILES@CPSC.GOV

**Document Information**

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**Reason For Modification:**

**Solicitation ID:**

**Agency Procurement Identifier**

**Modification No**

**Trans No**

**Contractor Information**

**Contractor Name From Street:** VERSAR INCORPORATED

**Vendor Name:** VERSAR INCORPORATED

**DBAN:**

**DUNS No:** 066764747

**Contracting Office Agency Name:** CONSUMER PRODUCT SAFETY COMMISSION

**Contracting Office Name:** DIVISION OF PROCUREMENT SERVICES

**Funding Agency Name:** CONSUMER PRODUCT SAFETY COMMISSION

**Funding Office Name:** DIVISION OF PROCUREMENT SERVICES

**Foreign Funding:**

**Reason For Inter-Agency Contracting:**

**CCR Exception:**

**DUNS No:** 066764747

**Contractor Name From Contract:** VERSAR INCORPORATED

**Vendor Name:** VERSAR INCORPORATED

**DBAN:**

**Business Category**

**Organization Type**

**Number of Employees:** 365

**State of Incorporation**

**Country of Incorporation**

**Annual Revenue:** $67,000,000

**Contract Data**

**Type of Contract:**

**Multiyear Contract:**

**Major Program:**

**National interest Action:**

**Cost Or Pricing Data:**

**Purchase Card Used As Payment Method:**

**Undefinitized Action:**

**Performance Based Service Acquisition:**

* FY 2004 and prior; 80% or more specified as performance requirement
* FY 2005 and later; 50% or more specified as performance requirement

Contingency Humanitarian Peacekeeping Operation:  
Contract Financing:  
Cost Accounting Standards Clause:  
Consolidated Contract:  
Number Of Actions:  1  
Legislative Mandates  
Clinger-Cohen Act:  
Service Contract Act:  
Walsh-Healey Act:  
Davis Bacon Act:  
Interagency Contracting Authority:  
Other Interagency Contracting Statutory Authority:  
Principal Place of Performance  
Principal Place Of Performance Code (State, Location, Country):  VA US  
Principal Place Of Performance City Name:  FAIRFAX  
Congressional District Place Of Performance:  08  
Place Of Performance Zip Code(+4):  22151 - 4196  
Product Or Service Information  
Product/Service Code:  B506  
Description:  STUDY/DATA - OTHER THAN SCIENTIFIC  
Principal NAICS Code:  541690  
Description:  OTHER SCIENTIFIC AND TECHNICAL CONSULTING  
Bundled Contract:  
System Equipment Code:  
Country of Product or Service Origin:  
Place of Manufacture:  
Domestic or Foreign Entity:  
Use Of Recovered Material:  
InfoTech Commercial Item Category:  
Claimant Program Code:  
Sea Transportation:  
GFE/GFP Provided Under This Action:  
Use Of EPA Designated Products:  
Description Of Requirement:  (4000 characters)  
Competition Information  
Extent Competed For Referenced IDV:  
Full and Open Competition  
Extent Competed:  
Solicitation Procedures:  
Type Of Set Aside:  
Evaluated Preference:  
SBIR/STTR:  
Fair Opportunity / Limited Sources:  
Other Than Full And Open Competition:  
Local Area Set Aside:  
FedBizOpps:  
A76 Action:  
Commercial Item Acquisition Procedures:  
Number Of Offers Received:  4  
Small Business Competitiveness Demonstration Program:  
Commercial Item Test Program:  
Preference Programs / Other Data  
Contracting Officer's Business Size Selection:  
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