**SOLICITATION/CONTRACT/OFFER FOR COMMERCIAL ITEMS**

**OFFER TO COMPLETE BLOCKS 12, 17, 23, 24, & 30**

<table>
<thead>
<tr>
<th>1. REQUISITION NUMBER</th>
<th>2. CONTRACT NO.</th>
<th>3. AWARD EFFECTIVE DATE</th>
<th>4. ORDER NUMBER</th>
<th>5. SOLICITATION NUMBER</th>
<th>6. SOLICITATION ISSUE DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>HQ-4500-12-0011</td>
<td>CPSC-D-12-0001</td>
<td>08/16/2012</td>
<td>0003</td>
<td></td>
<td></td>
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</tbody>
</table>

**FOR SOLICITATION INFORMATION CALL:**

<table>
<thead>
<tr>
<th>7. NAME</th>
<th>8. TELEPHONE NUMBER</th>
<th>9. OFFER DUE DATE/LOCAL TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greg Grayson</td>
<td>301-504-7725</td>
<td>ET</td>
</tr>
</tbody>
</table>

**ISSUED BY:**

CONSUMER PRODUCT SAFETY COMMISSION
DIV OF PROCUREMENT SERVICES
4330 EAST WEST HWY
ROOM 523
BETHESDA MD 20814

Net 30

12. DISCOUNT TERMS

**DELIVERY TO:**

CONSUMER PRODUCT SAFETY COMMISSION
OFFICE OF HAZARD ID & REDUCTION
4330 EAST WEST HIGHWAY
ROOM 804
BETHESDA MD 20814

TOXICOLOGY EXCELLENCE FOR RISK ASSESSMENT
ATTN JACQUELINE PATTERSON
2300 MONTANA AVE SUITE 409
CINCINNATI OH 45211-3888

**FACTORY CODE:**

FMPS

**CONTRACTOR/OFFEROR:**

CPSC Accounts Payable Branch
AMZ 160
P. O. Box 25710
Oklahoma City OK 73125

(513) 542-7475 EXT29

**SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18A UNLESS BLOCK BELOW IS CHECKED:**

**SCHEDULE OF SUPPLIES/SERVICES**

<table>
<thead>
<tr>
<th>19. ITEM NO.</th>
<th>20. DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DUNS Number:</td>
</tr>
<tr>
<td></td>
<td>Contracting Officer Representative: Dr. Treye Thomas</td>
</tr>
<tr>
<td></td>
<td>Tel: 301-504-7738</td>
</tr>
<tr>
<td></td>
<td>Email: <a href="mailto:TThomas@cpsc.gov">TThomas@cpsc.gov</a></td>
</tr>
</tbody>
</table>

**QUANTITY**

**UNIT PRICE**

**AMOUNT**

<table>
<thead>
<tr>
<th>21. QUANTITY</th>
<th>22. UNIT</th>
<th>23. UNIT PRICE</th>
<th>24. AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

25. ACCOUNTING AND APPROPRIATION DATA

| 25a. SOLICITATION INCORPORATES BY REFERENCE FAR 52.212-1, 52.212-4, FAR 52.212-3 AND 52.212-6 ARE ATTACHED. |
| 25b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-4. FAR 52.212-6 IS ATTACHED. |

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

| 26. TOTAL AWARD AMOUNT |
|                        |
| $34,920.00             |

27a. 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.

29. AWARD OF CONTRACT: REF:

30a. SIGNATURE OF OFFEROR/CONTRACTOR

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

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

31c. DATE SIGNED

Rudolf M. Johnson
8/17/12

AUTHORIZED FOR LOCAL REPRODUCTION
PREVIOUS EDITION IS NOT USABLE

STANDARD FORM 1448 (REV. 2/2012)

Prescribed by OSHA - FAR (48 CFR) 53.12
<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>SCHEDULE OF SUPPLIES/SERVICES</th>
<th>QUANTITY</th>
<th>UNIT</th>
<th>UNIT PRICE</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0001</td>
<td>The contractor shall provide peer review services.</td>
<td>485 HR</td>
<td>72.00</td>
<td>34,920.00</td>
<td></td>
</tr>
</tbody>
</table>

2012 through February 16, 2013.

All work shall be in accordance with the terms and conditions of the contract and the attached statement of work and supporting documents.

The total amount of award: $34,920.00. The obligation for this award is shown in box 26.
FOR OFFICIAL USE ONLY

Statement of Work

Peer Review of the Versar Report on Nanomaterial Toxicity

Background

There is a growing use of consumer products made with nano-scale compounds or materials, which are produced by directly manipulating matter at the atomic level, producing novel materials that could not have been fabricated in the past. Nanomaterials are defined as materials/particles that range from 1 to 100 nm in at least one dimension, and demonstrate unique physical and chemical properties; they may behave differently in the environment and in the human body compared to the same materials/particles that are larger.

In the conference report on H.R. 4040, CPSIA of 2008, Congress stated under the authorization of appropriations (Section 201), that it recognizes nanotechnology as a new technology used in the manufacture of consumer products, and that it expects the U.S. Consumer Product Safety Commission (CPSC) to review the use and safety of nanotechnology in consumer products, consistent with the Commission’s mission. In support of that mission, CPSC has requested funding to specifically address critical data needs for the safe use of nanomaterials in consumer products. Funds were allocated to a contract with Versar to conduct an assessment of three nanomaterials that are believed to be used in consumer products: nano titanium dioxide, nano silver (nanoAg) and carbon nanotubes (CNT). Specifically Versar was tasked to:

- Evaluate pertinent toxicokinetic, toxicological, and mechanistic studies, including in vitro studies into potential mechanisms of action for nanomaterials.
- 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 three classes of materials. This analysis included examining the apparent critical effects identified from the available data and identifying prospective principal studies for ADI development.

The Versar report was completed and submitted to the CPSC staff in May 2012.

Objective and Description of Work

The objective of the present task is to provide a peer review of the Versar report on nanoparticle toxicity.

➢ In consultation with CPSC staff, the Contractor shall identify four peer reviewers who have substantial expertise in the field of nanotoxicology. The reviewers may be employees of the Contractor or independent subcontractors. The Contractor may select one or more additional peer reviewers who are federal employees (non-compensated). The Contractor shall provide a list of available candidates with appropriate expertise to conduct the peer review and shall work with CPSC staff to select the reviewers from the list of candidates.
The peer reviewers shall conduct a review of the report, and comment on whether:

1) the characterization of the information presented in the report is accurate;

2) the most current and relevant studies are included in the toxicity review. If the most current and relevant studies are not included in the review, the Contractor shall identify the missing studies. The Contractor shall indicate the implications of the findings of such studies on the conclusions of the report, recommend revising the key toxic endpoints and/or the NOAEL/LOAELs used to derive ADIs in the report, as necessary;

3) the conclusions and recommendations are appropriate and supported by available information, including recommendations for ADIs for all three nanomaterials.

The CPSC contracting officer representative (COR) shall provide charge questions in consultation with the Contractor.

The Contractor shall provide a Peer Review Report to the CPSC contracting officer representative containing the findings of the peer reviewers, including questions, observations, and suggestions for improving the discussion and conclusions.

Period of Performance

The period of performance shall be for 180 days from date of award.

Delivery Schedule

The Contractor shall provide a list of available candidates to conduct the peer review to CPSC staff within 1 month of the date the task is awarded. The Contractor shall provide the requested Peer Review Report to CPSC staff within 60 days of the date of receipt of the CPSC staff report or the date the candidate peer reviewers are selected. The CPSC contracting officer representative shall have 30 days to review the report and return it to the contractor for revisions, if needed. The contractor shall have 30 days to make any suggested changes and return the revised document to the CPSC contracting officer representative. The contractor shall have one (1) month, based on availability, following the final acceptance of the Peer Review Report to convene a teleconference with the peer reviewers and the CPSC project manager.

Delivery

The peer review report and other written materials shall be provided by email to Treye Thomas (tthomas@cpsc.gov). If needed, the contractor may mail or send written materials by the deadline to:

Treye Thomas, Ph.D.
U.S. Consumer Product Safety Commission
4330 East West Highway
Bethesda, MD 20814-4421

Technical questions or clarifications about the documents should be directed to Treye Thomas at 301-504-7738 or tthomas@cpsc.gov.
LC 5 Contracting Officer’s Representative (COR) Designation

a. The following individual has been designated as the Government’s COR for contract: CPSC-D-12-0001 / Task Order 0003

Name: Treye Thomas, Ph.D.
Division: Directorate for Health Sciences
Telephone: 301-504-7738
Email: tthomas@epse.gov

b. The CPSC COR is responsible for:

(1) monitoring the Contractor's technical progress, including surveillance and assessment of performance, and notifying the Contracting Officer within one week when deliverables (including reports) are not received on schedule in accordance with the prescribed delivery schedule.

(2) performing technical evaluation as required, assisting the Contractor in the resolution of technical problems encountered during performance; and

(3) inspection and acceptance of all items required by the contract.

c. The COR is not authorized to and shall not:

(1) make changes in scope of work, contract schedules, and/or specifications to meet changes and requirements,

(2) direct or negotiate any change in the terms, conditions, or amounts cited in the contract; and

(3) take any action that commits the Government or could lead to a claim against the Government.

d. A clear distinction is made between Government and Contractor personnel. No employer-employee relationship will occur between government employees and contractor employees. Contractor employees must report directly to their company (employer) and shall not report to Government personnel.