**SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS**

**OFFER TO COMPLETE BLOCKS 12, 17, 22, 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>REQ-4000-14-0014</td>
<td>CPSC-D-12-0001</td>
<td>09/18/2014</td>
<td>0013</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**7. FOR SOLICITATION INFORMATION CALL:**

<table>
<thead>
<tr>
<th>8. NAME</th>
<th>9. TELEPHONE NUMBER</th>
<th>10. ISSUE BY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greg Grayson</td>
<td>301-504-7725</td>
<td>EMPS</td>
</tr>
</tbody>
</table>

**CONSUMER PRODUCT SAFETY COMMISSION**

DIV OF PROCUREMENT SERVICES
4330 EAST WEST HWY
ROOM 523
BETHESDA MD 20814

**11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED**

<table>
<thead>
<tr>
<th>12. DISCOUNT TERMS</th>
<th>13. THIS ACQUISITION IS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net 30</td>
<td></td>
</tr>
</tbody>
</table>

**14. METHOD OF SOLICITATION**

<table>
<thead>
<tr>
<th>15. DELIVER TO</th>
<th>16. ADMINISTERED BY</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXHR</td>
<td>EMPS</td>
</tr>
</tbody>
</table>

**CONSUMER PRODUCT SAFETY COMMISSION**

OFFICE OF HAZARD ID & REDUCTION
5 Research Place
Rockville MD 20850

**18a. PAYMENT WILL BE MADE BY**

| 19. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER |
|------------------------|------------------------|
|                        |                        |

**TOXICOLOGY EXCELLENCE FOR RISK ASSESSMENT**

ATTN: JACQUELINE PATTERTSON
2300 MONTANA AVE SUITE 409
CINCINNATI OH 45211-3888

**18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a UNLESS BLOCK BELOW IS CHECKED**

<table>
<thead>
<tr>
<th>19a. ISSUE ADDENDUM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

**DUNS Number: [REDACTED]**

Contracting Officer Representative:
Treve Thomas
Email: Tthomas@cpsc.gov
Tel: 301-987-2560

Task Order 0013 to contract number CPSC-D-12-0001 is hereby issued for toxicological services. The contractor shall provide all necessary personnel, materials, and services for the performance period of September 22, 2014 through March 21, 2015.

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

**25. ACCOUNTING AND APPROPRIATION DATA**

0100A14DSE-2014-2325900000-EXHR004000-252H0

$136,861.52

30a. SIGNATURE OF OFFEROR/CONTRACTOR

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

30b. NAME AND TITLE OF SIGNER (Type or print)

30c. DATE SIGNED

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

31c. DATE SIGNED

9/1/14

AUTHORIZED FOR LOCAL REPRODUCTION
PREVIOUS EDITION IS NOT USABLE

STANDARD FORM 1449 (REV. 2/2012)
Prescribed by GSA - FAR (48 CFR) 63.212
2015. All work shall be in accordance with the attached statement of work, contractor's quote, and terms and conditions of master contract # CPSC-D-12-0001.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Quantity</th>
<th>Unit</th>
<th>Unit Price</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>0001</td>
<td>Toxicological Services</td>
<td>1256 HR</td>
<td>108.17</td>
<td>135,861.52</td>
<td></td>
</tr>
<tr>
<td>0002</td>
<td>Literature Review</td>
<td>1 LO</td>
<td>1,000.00</td>
<td>1,000.00</td>
<td></td>
</tr>
</tbody>
</table>

The total amount of award: $136,861.52. The obligation for this award is shown in box 26.
STATEMENT OF WORK
(Contract# CPSC-D-12-0001 / Task Order 0013)
Epidemiologic and Toxicological Study Review
On the Health Risks of Mold

1. **Description of Services**

The Contractor shall provide all necessary personnel, materials, and facilities to conduct a review of epidemiologic and toxicological studies on the health risks of common mold species likely to be found in and around the home (Table 1). The CPSC Contracting Officer's Representative (COR) shall provide a preliminary literature search of TOXLINE citations and electronic copies of references already in their possession. In addition to detailing the toxicities of different molds, epidemiological data describing mold-related morbidity and mortality statistics is also requested. The emphasis shall be on data for the last 10 years. Emphasis shall be placed on susceptible populations including young children and the elderly.

The Contractor shall:

- The Contractor shall meet with the (COR by phone following the completion of each of the subtasks listed below (Section 8) to discuss progress on the task.
- The Contractor shall select and obtain references that include data relating to 1) relevant physico-chemical properties, 2) the potential for human toxicity and exposure, and 3) epidemiology of mold related morbidity and mortality statistics.
- The Contractor may rely on authoritative reviews for general toxicity and physico-chemical information but should review key references on health effects. Key references include those that identify no observable adverse effect levels (NOAELs), lowest observable adverse effect levels (LOAELs), or dose response information.
- In reviewing the toxicity data, a higher priority shall be given to studies relating to human toxicity. This shall include data in humans, animal studies, and *in vitro* studies.
- CPSC staff can obtain many journal articles in pdf form through the National Library of Medicine (NLM) at low cost. After completing the literature search, the Contractor shall provide a list of references (including PMID if available) to the COR. The COR will request these from NLM and forward them to the Contractor. The Contractor shall not purchase articles that can be obtained through NLM.
- Copies of references cited, not provided by the CPSC staff, shall be made available to the Contracting Officer in paper or electronic form when the task is completed.
- The report shall be broken down into discussion points using the following format, where possible. This format is not all inclusive and can be added to or subtracted from when information does or does not exist. Special emphasis shall be placed on the potential for respiratory irritation and the association of molds found in and around the home with the development or exacerbation of asthma symptoms in young children.

1. Introduction
2. Basic Mold Characteristics
3. Toxicokinetics
   - Absorption
   - Distribution
   - Metabolism
4. Hazard Information
   - Acute Single Dose Toxicity
     - Acute oral toxicity
     - Acute dermal toxicity
     - Acute inhalation toxicity
     - Primary skin irritation
     - Primary eye irritation
     - Respiratory irritation
     - Sensitization

5. Lowest Hazard Endpoints by organ system and exposure duration
   - Overall Uncertainty
   - Emphasis on susceptible populations including young children and the elderly

6. Human Exposure, with emphasis on consumers and susceptible sub-populations (e.g., young children, elderly)
   - Exposure studies shall be listed and briefly summarized as to results and type of study

7. Discussion—including significant data gaps

8. References

**Table 1: Mold species to be reviewed**

<table>
<thead>
<tr>
<th>Mold Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternaria</td>
</tr>
<tr>
<td>Aspergillus</td>
</tr>
<tr>
<td>Chaetomium,</td>
</tr>
<tr>
<td>Claudosporium</td>
</tr>
<tr>
<td>Dicyma</td>
</tr>
<tr>
<td>Epicoccum</td>
</tr>
<tr>
<td>Malassezia</td>
</tr>
<tr>
<td>Penicillium</td>
</tr>
<tr>
<td>Phoma</td>
</tr>
<tr>
<td>Stachybotrys</td>
</tr>
<tr>
<td>Zygomycetes</td>
</tr>
</tbody>
</table>

2. **Contract Type**

   This is a firm fixed price task order with fully loaded hourly rates for the hours indicated in the schedule of services.

3. **Background**

   Federal agencies including the Centers for Disease Control and Prevention (CDC) and the Environmental Protection Agency (EPA) have issued warnings and guidance documents on the dangers of mold in the home and strategies to reduce mold exposures, particularly to children
(CDC, 2014). Consumer exposure to mold on a product may be more frequent and direct than exposures that might occur in a building setting, making remediation even more important for products with mold contamination. Mold exposure has been associated with a variety of health effects, including irritant and allergic reactions, such as asthma and other respiratory conditions (EPA, 2014). Recently, there have been voluntary recalls of products due to the development of mold. In addition, the CPSC 360 database contains over a thousand complaints from consumers regarding the presence of mold. There are news reports of lawsuits seeking damages due to mold effects. It is important that staff gain a better understanding of these hazards and the new information that has been developed over the past several years on mold toxicity.

4. **Objective**
The objective of this task is to identify the potential irritant and other health impacts of specific molds that are found in the home and, specifically, in or on consumer products. The information will be used to develop thresholds for exposure and guidance documents for consumers with emphasis on susceptible populations (e.g., children).

5. **Period of Performance**
The period of performance shall be from September 22, 2014 through March 21, 2015.

6. **Government Furnished Materials**
The CPSC COR will provide electronic copies of relevant references currently in their possession. The COR will request the list of Contractor-provided references from NLM and forward them to the Contractor. The CPSC COR will provide a preliminary mold assessment that was completed by the CPSC staff.

7. **Deliverables or Performance**
The Contractor shall provide the requested information in the form of a written report to the CPSC COR within ninety (90) days after the initial meeting. The report shall be in the format of a scientific report with full citations, tables, and figures as discussed above. The reviewer shall e-mail the report to the CPSC COR in a Microsoft Word file.
## 8. Delivery Schedule

<table>
<thead>
<tr>
<th>Item(s)</th>
<th>Quantity</th>
<th>Delivery or Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>The CPSC Contracting Officer’s Representative (COR) and Contractor shall meet by telephone to discuss and initiate the project.</td>
<td>1</td>
<td>Within 7 calendar days of task order 0013 award date.</td>
</tr>
<tr>
<td>The CPSC COR shall provide electronic copies of references and preliminary mold assessment to the Contractor.</td>
<td>1</td>
<td>Within 14 calendar days of task order 0013 award date.</td>
</tr>
<tr>
<td>The CPSC COR shall be available to consult with the Contractor by teleconference.</td>
<td>As appropriate</td>
<td>At the completion of each subtask.</td>
</tr>
<tr>
<td>The CPSC COR and Contractor shall meet by teleconference to discuss the literature search, availability of data, and other information relevant to performing the review.</td>
<td>1</td>
<td>Within 30 calendar days of the project kick-off.</td>
</tr>
<tr>
<td>The Contractor shall submit a draft report in electronic format to the CPSC COR.</td>
<td>1</td>
<td>Within 90 calendar days after the meeting to discuss information relevant to performing the review with the CPSC COR.</td>
</tr>
<tr>
<td>The CPSC COR shall provide type-written comments or a document edited by “Track Changes” on the draft report to the Contractor.</td>
<td>1</td>
<td>Within 14 calendar days after receipt of the draft report.</td>
</tr>
<tr>
<td>The Contractor shall submit an electronic draft final report to the CPSC COR.</td>
<td>The Contractor shall revise the draft final report as appropriate.</td>
<td>Within 30 calendar days after receipt of comments.</td>
</tr>
<tr>
<td>The CPSC COR shall provide type-written comments or a document edited by “Track Changes” on the draft final report to the Contractor.</td>
<td>1</td>
<td>Within 14 calendar days following receipt.</td>
</tr>
<tr>
<td>The Contractor shall provide the final report.</td>
<td>1</td>
<td>Within 7 calendar days after receipt of comments.</td>
</tr>
<tr>
<td>Inspection and acceptance of the final report.</td>
<td>The final report shall be reviewed by the CPSC COR.</td>
<td>Within 7 calendar days after receipt of the report.</td>
</tr>
</tbody>
</table>
9. **Place of Delivery**

U.S. Consumer Product Safety Commission  
Directorate for Health Sciences  
5 Research Pl  
Rockville, MD 20850

CPSC Contracting Officer Representatives and contact information:

Treye Thomas, Ph.D.  
thomas@cpsc.gov  
301-987-2560

10. **Inspection and Acceptance**

The Draft report submitted to CPSC shall be reviewed within 14 calendar days of its receipt for 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 draft final version to the COR within 30 calendar days of receipt. The CPSC COR shall then have 14 calendar days to review the Final report. If necessary, any additional questions and/or comments from the CPSC COR shall be addressed by the Contractor within 7 calendar days of receipt. The CPSC COR shall then have 7 calendar days for final acceptance.

11. **Requirement for CPSC Clearance**

The final report is the property of the CPSC. The Contractor shall 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 COR. Any publication must be cleared following CPSC procedures, as outlined in the Consumer Product Safety Act.

12. **References**

http://www.cdc.gov/mold/basics.htm

http://www.epa.gov/mold/index.html

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 0013:

Name: Treye A. Thomas, Ph.D.
Division: Directorate for Health Sciences
Telephone: 301-987-2560
Email: tthomas@cpsc.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.