



Republic of the Philippines

DEPARTMENT OF SCIENCE AND TECHNOLOGY

OFFICE OF THE SECRETARY

MAY 19 2014

DOST Administrative Order No. 001  
Series of 2014

**SUBJECT: Prescribed Fees for Testing Services of DOST Research and Development Institutes (RDIs) and Regional Standards and Testing Laboratories (RSTLs)**

#### **I. Rationale**

This Administrative Order is issued to update the existing fees of DOST RDIs and RSTLs for testing services in compliance to Malacañan Administrative Order No. 31, s. 2012 which authorizes government agencies to increase their existing fees.

#### **II. Scope**

The updating of fees shall cover the testing and analytical services of testing laboratories of DOST RDIs and RSTLs.

#### **III. Definition of Terms**

- **Personal Services (PS)** -- cost of services rendered by the technical and support staff involved in the delivery of testing and analytical services consisting of salaries, incentives and other monetary benefits.
- **Maintenance and Other Operating Expenses (MOOE)** -- cost of supplies/materials, utilities, calibration, maintenance and depreciation of equipment and facilities used for services.

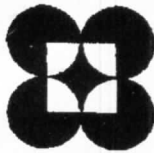
#### **IV. Bases of Computation**

The fee shall be the sum of the following components:

##### **A. Personnel Services (PS)**

The rates for Personnel Services shall be computed based on the man hours spent for the activity and hourly rates.

Hourly rates are based on 1,980 work hours per year (12 months per year, 22 days per month and 7.5 hours per day).



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The degree of participation is classified according to the involvement of personnel in the conduct of analyses up to the release of results, as follows:

| CATEGORY A       | CATEGORY B       | CATEGORY C       | CATEGORY D     |
|------------------|------------------|------------------|----------------|
| SRA - 90%        | SRS I - 50%      | SRS II - 50%     | SRS II - 40%   |
| Sr. SRS - 5%     | SRS II - 40%     | Sr. SRS - 40%    | Sr. SRS - 50%  |
| Sup SRS - 2.5%   | Sr. SRS - 5%     | Sr. SRS - 5%     | Sr. SRS - 5%   |
| Chief SRS - 2.5% | Sup SRS - 2.5%   | Sup SRS - 2.5%   | Sup SRS - 2.5% |
|                  | Chief SRS - 2.5% | Chief SRS - 2.5% | Chief - 2.5%   |

A - simple, computation only, visual reading, short time analysis; example of tests: Brix, gravity, pH  
B - intermediate, requires sample preparation (e.g. titrimetric method), enumeration, use of simple equipment; example of tests: titratable acidity  
C - complex, use of instrumental analysis (e.g. AAS, GC, HPLC, PCR) laborious; example of tests: minerals  
D - highly complex, requires several stages of analysis; example of tests: total dietary fiber

**B. Maintenance and Other Operating Expenses (MOOE)**

This component is computed as follows:

**MOOE = Supplies and Materials + Utilities + Equipment Maintenance, Calibration and Depreciation**

• **Supplies and Materials = Cost per unit x Actual Usage**

• **Utilities = Water + Electricity**

**Water = Consumption x 60 Php/cu m**

**Electricity = Wattage of equipment x No. of hours used x 10 Php/ kWh**

• **Equipment = Maintenance Cost + Depreciation Cost + Calibration Cost**

**Maintenance Cost = Acquisition Cost Php x 0.05 x (Hrs of Use/ 1,980 Hrs)**

**Depreciation Cost = (Acquisition Cost Php/ Useful Life in Years) x (Hrs of Use/ 1,980 Hrs)**

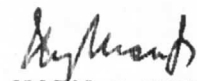
**Calibration Cost = (Calibration Cost/1,980) x Hrs of Use**

**V. Matrix of Recommended Fees**

The prescribed fees for the DOST testing services are presented as Annex A.

**VI. Effectivity**

This Order shall take effect on May 1, 2014.

  
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**PRESCRIBED FEES FOR DOST TESTING SERVICES**

**AGENCY: PHILIPPINE NUCLEAR RESEARCH INSTITUTE (PNRI)**

**I. NUCLEAR AND RELATED ANALYTICAL SERVICES**

| No | Test/Analysis   | Method  | Prescribed Fee                      | Remarks  |  |
|----|---|---|-------------------------------------|--|--|
| 1  | All types<br>Gamma Activity<br>(Cs-137, Cs-134, K-40)                                 | Gamma Spectrometry<br>for 3 RNs, 1 hour<br>counting   | 2,400.00                            | additional fee for samples<br>that need to be chopped<br>and homogenized   |  |
|    |   | per additional RN   | 200.00                              |  |  |
|    |   | per additional hour<br>counting   | 1,600.00                            |  |  |
|    |   | certification   | 600.00                              |  |  |
|    |   | Sample Preparation  | 250.00                              |  |  |
| 2  | Water<br>Gross Alpha and Beta<br>Activity   | Liquid Scintillation<br>Counting  |                                     | For freshwater only.<br>If preliminary counting<br>yields detectable activity<br>equilibration for 1 mo is<br>needed |  |
|    |   |   | 4,700.00                            | 1 <sup>st</sup> sample   |  |
|    |   |   | 2,300.00                            | Succeeding sample (max<br>of 4)  |  |
| 3  | Water<br>Radon  | Liquid Scintillation<br>Counting  | 4,700.00                            | Submission of samples in<br>close coordination with<br>analyst   |  |
| 4  | Vinegar<br>C-14 in acetic acid  | Liquid Scintillation<br>Counting of Acetic Acid<br>isolated from vinegar<br>(includes isolation cost) | 16,000.00                           | single sample  |  |
| 5  | Water<br>Tritium (ultra low<br>level)   | Liquid Scintillation<br>Counting with<br>electrolytic enrichment<br>per sample                        | 10,000.00                           | a minimum of 16 samples<br>can be processed at one<br>time   |  |
| 6  | Liquid<br>H-3, C-14, Cl-36, Am-<br>241, Cerenkov<br>Chemiluminescence<br>qualitative) | Direct Liquid Scintillation<br>counting   |                                     | 1 <sup>st</sup> sample/RN/hr   |  |
|    |   |   | 2,600.00                            | succeeding sample (max<br>of 4)  |  |
|    |   |   | 1,500.00                            | per add'l RN   |  |
|    |   |   | 700.00                              | per add'l hr counting  |  |
|    |   |   | 700.00                              | For low level activity<br>use of LSC (1st hour)  |  |
|    |   |   | 650.00                              | use of LSC (succeeding<br>hour)  |  |
| 7  | Solids<br>Multi-element<br>analysis Na to U   | X-RAY<br>FLOURESCENCE<br>SPECTROMETRY<br>Sample Preparation for<br>XRF Analysis                       |                                     |  |  |
|    |   |   | 1. SPEX 8000<br>Mixer/Mill          | 320.00   |  |
|    |   |   | 2. SPEX 3630<br>Automated X-Press   | 400.00   |  |
|    |   |   | 3. Micro Hammer-Cutter<br>Mill 5200 | 625.00   |  |
|    |   |   | 4. 6700 Freezer Mill                | 1,200.00   |  |

| No. | Test/Analysis   | Method   | Prescribed Fee | Remarks  |
|-----|---|--|----------------|--|
| 8   | Solids in appropriate form<br>Multi-element analysis Na to U      | EDXRF Analysis with secondary target<br>1. Qualitative Analysis without sample preparation | 1,350.00       | 10 working days allowance for queuing of samples but results may be released earlier<br>1st sample (per batch of 10) |
|     |   |  | 600.00         | succeeding sample (per batch of 10)  |
| 9   | Solids in appropriate form<br>Multi-element analysis Na to U      | 2. Quantitative Analysis   | 2,900.00       | allowance for queuing of samples but results may be released earlier<br>1st sample (per batch of 10)                 |
|     |   |  | 1,100.00       | succeeding sample (per batch of 10)  |
| 10  | Air particulates on air filters<br>Multi-element analysis Na to U | 3. Elemental Analysis of Air Particulates on Filter Medium                                 | 5,200.00       | 1st sample (per batch of 10)   |
|     |   |  | 2,200.00       | succeeding sample (per batch of 10)  |
| 11  | Liquid, Dried on filters<br>Multi-element analysis Na to U        | 4. Elemental Analysis of Liquid Samples Dried on Filters                                   | 6,700.00       | 1st sample (per batch of 10)   |
|     |   |  | 2,000.00       | succeeding sample (per batch of 10)  |
| 12  | Water<br>Stable Isotopes  | Continuous Gas Flow Isotope Ratio Mass Spectrometry  | 2,900.00       | per sample (minimum of 10 samples per job order)   |
| 13  | Air particulates on air filters<br>Particulate Mass               | Micro Weighing   | 250.00         | offered only in tandem with XRF analysis of air particulate on filters<br>1st sample                                 |
|     |   |  | 120.00         | Succeeding sample (max 9)  |
| 14  | Water<br>F, Cl, Br, SO4, NO3                                      | Anion Analysis by Ion Chromatography   | 3,100.00       | offered only in tandem with isotopic investigations in water<br>1st sample   |
|     |   |  | 850.00         | succeeding sample (max of 9)   |
| 15  | Water<br>Na, K, Mg, Ca  | Cation Analysis by Ion Chromatography  | 3,100.00       | offered only in tandem with isotopic investigations in water<br>1st sample   |
|     |   |  | 850.00         | succeeding sample (max of 9)   |
| 16  | Air particulates on air filters<br>Black Carbon                   | Reflectionetry   | 410.00         | 1st sample   |
|     |   |  | 160.00         | succeeding sample (max of 9)   |

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| No.           | Test/Analysis                          | Method                             | Prescribed Fee | Remarks                      |
|---------------|--|------------------------------------|----------------|------------------------------|
| 17            | Air particulates on quartz air filters | Total Reflectance/ Transmittance   | 1,500.00       | 1st sample                   |
|               | Organic Carbon/elemental Carbon        |                                    | 610.00         | succeeding sample (max of 9) |
| <b>BIOMED</b> |  |                                    |                |                              |
|               | Medical Products                       | Bioburden test                     |                |                              |
| 18            | Microbiological bio burden             | - Method 1 (30 samples)            | 17,000.00      | Per test                     |
|               |  | - Method 3 (10) samples            | 5,000.00       | Per test                     |
|               |  | Sterility Test                     |                |                              |
|               |  | - Method 1 (100 samples)           | 10,000.00      | Per test                     |
|               |  | - Small sample                     | 600.00         | Per sample                   |
|               |  | - Big sample                       | 1,000.00       | Per sample                   |
| 19            | Blood Chromosomal aberration           | Cytogenetics test                  | 1,750.00       | Per test                     |
| 20            | Any sample                             | Certification of analysis /results | 600.00         | Per certificate              |
| 21            | Powder Form Collection of XRD Data     | Xray Diffraction (XRD)             | 2,300.00       | 1st sample/hr run            |
|               |  |                                    | 600.00         | per additional hr/sample     |
| 22            | Solid form                             | Atomic Absorption Analysis         | 800.00         |                              |

## II. RADIOTRACER TECHNIQUES SERVICES

| No. | Test/Analysis     | Method   | Prescribed Fee | Remarks   |
|-----|-------------------|--|----------------|---|
| 1   | Column Scanning   | Gamma Scanning   | 125,000.00     | Per 3 day test + TC and accommodation as applicable                 |
|     |                   |  | 35,000.00      | Per additional day  |
| 2   | Interface Marking | Neutron Backscatter Interface Marking                  | 60,000.00      | Per two day test + TC and accommodation as applicable               |
|     |                   |  | 10,000.00      | Per additional day  |
| 3   | Scanning          | Rental of Cobalt 60 source for Scanning                | 25,000.00      | Source rental per 3 day. Accompanying personnel required            |
|     |                   |  | 5,000.00       | Per additional day  |
| 4   | Interface Marking | Rental for Am-Be Neutron With Neutron Backscatter Gage | 85,000.00      | Source and equipment rental per 3 days, with accompanying personnel |
|     |                   |  | 10,000.00      | Per additional day  |

### III. GAMMA IRRADIATION SERVICES

| No. | Test/Analysis                  | Method                         | Prescribed Fee | Remarks                         |
|-----|--------------------------------|--------------------------------|----------------|---------------------------------|
| 1   | Irradiation                    | Gamma Cell - 220               | 90.00          | Per load-hr                     |
|     |                                | Irradiation                    | 20.00          | Per additional hour or fraction |
| 2   | Dose less than 0.1 kGy         | Multipurpose Gamma Irradiation | 2,500.00       | per load                        |
|     |                                |                                | 2,200.00       | Minimum charge per load         |
| 3   | Dose 0.1 to less than 1 kGy    | Multipurpose Gamma Irradiation | 3,500.00       | per load                        |
|     |                                |                                | 3,000.00       | Minimum charge per load         |
| 4   | Dose 1 kGy to less than 3 kGy  | Multipurpose Gamma Irradiation | 10,000.00      | per load                        |
|     |                                |                                | 7,500.00       | Minimum charge per load         |
| 5   | Dose 3 kGy to less than 6 kGy  | Multipurpose Gamma Irradiation | 15,000.00      | per load                        |
|     |                                |                                | 10,000.00      | Minimum charge per load         |
| 6   | Dose 6 kGy to less than 25 kGy | Multipurpose Gamma Irradiation | 20,000.00      | per load                        |
|     |                                |                                | 15,000.00      | Minimum charge per load         |
| 7   | Dose 25 kGy                    | Multipurpose Gamma Irradiation | 25,000.00      | per load                        |
|     |                                |                                | 20,000.00      | Minimum charge per load         |
| 8   | Test Irradiation (small packs) | Multipurpose Gamma Irradiation | 3,000.00       | Per set of 3 doses              |
|     |                                |                                | 1,000.00       | Per additional dose             |
| 9   | Dose Mapping and other samples | Multipurpose Gamma Irradiation | 5,000.00       | Per product load                |

### IV. RADIATION PROTECTION SERVICES

| No. | Test/Analysis             | Method  | Prescribed Fee | Remarks   |
|-----|---------------------------|---|----------------|---|
| 1   | OSL Personnel dosimetry   | Rental and evaluation                                   | 300.00         | Per unit/monitoring + courier fee                                   |
|     |                           | Evaluation  | 225.00         | With MOA  |
| 2   | TLD Personnel dosimetry   | Rental and evaluation                                   | 300.00         | Per unit/monitoring + courier fee                                   |
|     |                           |   |                | With MOA  |
| 3   | Radiation Monitoring      | Area monitoring and hazards evaluation                  | 5,000.00       | Per day, Client to provide transportation + accommodation as needed |
| 4   | Leak Testing (PNRI)       | Radioactive contamination measurement of sealed sources | 1,500.00       | Per unit  |
|     |                           |   |                | +P900.00/succeeding unit  |
| 4   | Leak Testing (MM)         |   | 3,200.00       | Per unit  |
|     |                           |   |                | +P900.00/succeeding unit  |
| 4   | Leak Testing (outside MM) |   | 4,500.00       | Per unit  |
|     |                           |   |                | +P900.00/succeeding unit  |
| 5   | Swipe Test Analysis       |   | 1,200.00       | Per unit  |
|     |                           |   |                | +TC + accommodation needed  |
|     |                           |   |                | Per batch of 5 samples  |

| No. | Test/Analysis                                | Method   | Prescribed Fee | Remarks   |
|-----|--|--|----------------|---|
|     | Personal Dosimeter                           | Calibration  | 1,200.00       | Per unit  |
|     | Survey Meter                                 | Comparison with known dose using a reference                                   | 1,850.00       | Per unit + fresh batteries  |
|     | Contamination Meter                          | radioactive source or reference instrument following ISO standards             | 1,950.00       | Per unit + fresh batteries  |
| 6   | Activity Meter                               |  | 5,000.00       | Per day, Client to provide transportation + accommodation as needed |
|     | Brachytherapy (MM)                           |  | 6,500.00       |   |
|     | Brachytherapy -outside MM                    |  | 3,400.00       |   |
|     | Teletherapy (MM)                             |  | 7,000.00       |   |
| 7   | Teletherapy (outside MM)                     |  | 8,100.00       |   |
|     | Solid waste Compactible                      | Collection, conditioning and storage of radioactive wastes and disused sources | 3,700.00       | Per 0.1 cu m or fraction thereof                                    |
|     | Solid waste non compactible                  |  | 5,800.00       | Per 0.1 cu m or fraction thereof                                    |
|     | Liquid Waste                                 |  | 2,600.00       | Per liter   |
| 8   | Spent sealed sources                         |  |                |   |
|     | Small sources in 200 L drum                  |  | 12,500.00      | Per drum conditioning   |
|     | Teletherapy brachytherapy (Cat 1&2) sources) |  | 60,000.00      | Per unit source   |
|     | Rental of survey meter                       |  | 2,400.00       | Per week with contract  |
| 9   | Storage of RAM (day)                         |  |                | With contract   |
|     | 1 week storage                               |  | 2,800.00       | With contract   |
|     | 1 month storage                              |  | 10,000.00      | With contract   |
| 10  | Rental, Density Gage                         |  | 55,000.00      | Per unit/6 months w/ contract                                       |

#### V. NUCLEAR TRAINING CENTER

| No. | Course Title  | Method                            | Prescribed Fee | Remarks/ Justification |
|-----|---|-----------------------------------|----------------|------------------------|
| 1.  | Radiation Safety Course (2 days)  | Lectures                          | 2,500.00       |                        |
|     | Other Courses (2 days)  |                                   |                |                        |
| 2.  | Radiation Safety Course (3 days)  | Lectures                          | 3,500.00       |                        |
|     | Safety in the Use of Nuclear Equipment and Devices Training                                 | Lectures and Laboratory Exercises | 5,800.00       |                        |
| 3.  | Course (5 days)   |                                   |                |                        |
|     | Other courses (5 days)  |                                   |                |                        |
|     | Radiation Safety Course for Medical and Radiopharmaceutical Facilities (10 days or 2 weeks) | Lectures and Laboratory Exercises | 10,000.00      |                        |
| 4.  |   |                                   |                |                        |
|     | Radioisotope Techniques Training Course - Medical (20 days or 4 weeks)                      | Lectures and Laboratory Exercises | 15,000.00      |                        |
| 5.  | Other Courses (20 days or 4 weeks)  |                                   |                |                        |

**VI. INSTRUMENT REPAIR SERVICES**

| No. | Test/Analysis | Method | Prescribed Fee | Remarks   |
|-----|---------------|--------|----------------|---|
| 1   | Diagnostic    |        | 600.00         | Per instrument                                    |
|     | Repair        |        | 1,500.00       | Basic charge per instrument + cost of spare parts |
| 2   |               |        | 500.00         | Per additional hour/instrument                    |

*C*

*A*