CAMPUS AND UNIVERSITIES RATE AGREEMENT

EIN: 1386005984A1
ORGANIZATION:
Michigan State University
301 Administration Building
East Lansing, MI 48824-1046

DATE: 06/23/2011
FILING REF.: The preceding agreement was dated 03/08/2007

The rates approved in this agreement are for use on grants, contracts and other agreements with the Federal Government, subject to the conditions in Section III.

SECTION I: INDIRECT COST RATES

<table>
<thead>
<tr>
<th>RATE TYPES</th>
<th>FIXED</th>
<th>FINAL</th>
<th>PROV. (PROVISIONAL)</th>
<th>PRED. (FREDETERMINED)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EFFECTIVE PERIOD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TYPE</td>
<td>FROM</td>
<td>TO</td>
<td>RATE (%) LOCATION</td>
<td>APPLICABLE TO</td>
</tr>
<tr>
<td>PRED.</td>
<td>07/01/2008</td>
<td>06/30/2011</td>
<td>52.00 On Campus</td>
<td>Organized Research</td>
</tr>
<tr>
<td>PRED.</td>
<td>07/01/2008</td>
<td>06/30/2011</td>
<td>41.00 On Campus</td>
<td>Other Spon Act</td>
</tr>
<tr>
<td>PRED.</td>
<td>07/01/2008</td>
<td>06/30/2011</td>
<td>26.00 Off Campus</td>
<td>All Programs</td>
</tr>
<tr>
<td>PRED.</td>
<td>07/01/2011</td>
<td>06/30/2015</td>
<td>53.50 On Campus</td>
<td>Organized Research</td>
</tr>
<tr>
<td>PRED.</td>
<td>07/01/2011</td>
<td>06/30/2015</td>
<td>36.00 On Campus</td>
<td>Other Spon Act</td>
</tr>
<tr>
<td>PROV.</td>
<td>07/01/2015</td>
<td>Until Amended</td>
<td>26.00 Off Campus</td>
<td>All Programs</td>
</tr>
</tbody>
</table>

"Use same rates and conditions as cited for FYE 6/30/15."

BASE

Modified total direct costs, consisting of all salaries and wages, fringe benefits, materials, supplies, services, travel and subgrants and subcontract up to the first $25,000 of each subgrant or subcontract (regardless of the period covered by the subgrant or subcontract). Modified total direct costs shall exclude equipment, capital expenditures, charges for patient care, student tuition remission, rental costs of off-site facilities, scholarships, and fellowships as well as the portion of each subgrant and subcontract in excess of $25,000.
SECTION II: SPECIAL REMARKS

TREATMENT OF FRINGE BENEFITS:
The fringe benefits are specifically identified to each employee and are charged individually as direct costs. The directly claimed fringe benefits are listed below.

TREATMENT OF PAID ABSENCES
Vacation, holiday, sick leave pay and other paid absences are included in salaries and wages and are claimed on grants, contracts and other agreements as part of the normal cost for salaries and wages. Separate claims are not made for the cost of these paid absences.

OFF-CAMPUS DEFINITION: For all activities performed in facilities not owned by the institution and to which rent is directly allocated to the project(s) the off-campus rate will apply. Grants or contracts will not be subject to more than one F&A cost rate. If more than 50% of a project is performed off-campus, the off-campus rate will apply to the entire project.

Equiipment Definition -
Equipment means an article of nonexpendable, tangible personal property having a useful life of more than one year and an acquisition cost of $5,000 or more per unit.

FRINGE BENEFITS:

PAICA
Retirement
Disability Insurance
Tuition Remission
Worker's Compensation
Unemployment Insurance
Health Insurance
Dental Insurance
Life Insurance
Longevity Pay Increments
Post Retirement Benefits
ORGANIZATION: Michigan State University

AGREEMENT DATE: 06/23/2011

SECTION III: GENERAL

A. LIMITATIONS:
The rates in this Agreement are subject to any statutory or administrative limitations and apply to a given grant, contract or other agreement only to the extent that funds are available. Acceptance of the rates is subject to the following conditions: (1) Only costs incurred by the organization were included in its facilities and administrative cost pools as finally accepted; such costs are legal obligations of the organization and are allowable under the governing cost principles; (2) The same costs that have been treated as facilities and administrative costs are not claimed as direct costs; (3) Similar costs of other programs have been accounted for in accordance with this Agreement; and (4) The information provided by the organization which was used to establish the rates is not later found to be materially incorrect or inaccurate by the Federal Government. In such situations the rate(s) would be subject to renegotiation at the discretion of the Federal Government.

B. ACCOUNTING CHANGES:
This Agreement is based on the accounting system purported by the organization to be in effect during the Agreement period. Changes to the method of accounting for costs which affect the amount of reimbursement required from the use of the rates contained in this Agreement require prior approval of the authorized representative of the cognizant agency. Such changes include, but are not limited to, changes in the charging of a particular type of cost from facilities and administrative costs. Failure to obtain approval may result in cost disallowances.

C. FIXED RATES:
If fixed rates in this Agreement, it is based on an estimate of the costs for the period covered by the rate. When the actual costs for this period are determined, an adjustment will be made to a rate of a future year(s) to compensate for the difference between the costs used to establish the fixed rate and actual costs.

D. USE BY OTHER FEDERAL AGENCIES:
The rates in this Agreement were approved in accordance with the authority in Office of Management and Budget Circular A-21 Circular, and should be applied to grants, contracts, and other agreements covered by this Circular, subject to any limitations in A above. The organization may provide copies of the Agreement to other Federal Agencies to give them early notification of the Agreement.

E. OTHER:
If any Federal contract, grant, or other agreement is reimbursing facilities and administrative costs by a rate other than the approved rate(s) in this Agreement, the organization should (1) credit such costs to the affected programs, and (2) apply the approved rate(s) to the appropriate base to identify the proper amounts of facilities and administrative costs allocable to those programs.

BY THE INSTITUTION:
Michigan State University

(SIGNATURE)
Daniel T. Evon, Director
Contract & Grant Administration
Michigan State University

(DATE)
June 24, 2011

ON BEHALF OF THE FEDERAL GOVERNMENT:

DEPARTMENT OF HEALTH AND HUMAN SERVICES

(NAME)
Arif Marim

(TITLE)
Director, Central States Field Office

(DATE) 5/060

MS REPRESENTATIVE: Ernest Kinneer

Telephone: (214) 767-3261
COMPONENTS OF PUBLISHED F&A COST RATE

INSTITUTION: Michigan State University
FY COVERED BY RATE: JULY 1, 2011 through JUNE 30, 2015
APPLICABLE TO: ORGANIZED RESEARCH

<table>
<thead>
<tr>
<th>RATE COMPONENT</th>
<th>ON CAMPUS</th>
<th>OFF CAMPUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building Depreciation</td>
<td>3.6</td>
<td></td>
</tr>
<tr>
<td>Equipment Depreciation</td>
<td>2.2</td>
<td></td>
</tr>
<tr>
<td>Interest</td>
<td>2.4</td>
<td></td>
</tr>
<tr>
<td>Operation &amp; Maintenance</td>
<td>18.0</td>
<td>26.0</td>
</tr>
<tr>
<td>Library</td>
<td>1.3</td>
<td></td>
</tr>
<tr>
<td>Administration</td>
<td>26.0</td>
<td>26.0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>53.5</td>
<td>26.0</td>
</tr>
</tbody>
</table>

CONCURRENCE:

Michigan State University  
(Institution)

(Signature) Daniel T. Evon, Director Contract & Grant Administration Michigan State University  
(Title) 6/24/2011  
(Date)