INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY  
PASADENA, CALIFORNIA 91125

The Facilities and Administrative (F&A) cost rates contained herein are for use on grants, contracts and/or other agreements issued or awarded to the California Institute of Technology (Caltech) by all Federal Agencies of the United States of America, in accordance with the provisions and cost principles mandated by 2 CFR Part 200. These rates shall be used for forward pricing and billing purposes for Caltech’s Fiscal Year 2019. This rate agreement supersedes all previous rate agreements/determinations for Fiscal Year 2019.

Section I: RATES - TYPE: FIXED (FIXED) AND PREDETERMINED (PRED)

<table>
<thead>
<tr>
<th>TYPE</th>
<th>FROM</th>
<th>TO</th>
<th>RATE</th>
<th>BASE</th>
<th>APPLICABLE TO</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIXED</td>
<td>10/1/2018</td>
<td>9/30/2019</td>
<td>64.50%</td>
<td>(a)</td>
<td>Organized Research (except JPL)</td>
<td>On-Campus</td>
</tr>
<tr>
<td>PRED</td>
<td>10/1/2018</td>
<td>9/30/2019</td>
<td>26.00%</td>
<td>(a)</td>
<td>Organized Research (except JPL)</td>
<td>Off-Campus</td>
</tr>
</tbody>
</table>

DISTRIBUTION BASE

(a) Modified Total Direct Costs (MTDC) means all direct salaries and wages, applicable fringe benefits, materials and supplies, services, travel, and up to the first $25,000 of each subaward (regardless of the period of performance of the subawards under the award). MTDC excludes equipment, capital expenditures, charges for patient care, rental costs, tuition remission, scholarships and fellowships, participant support costs and the portion of each subaward in excess of $25,000.

SECTION II - GENERAL TERMS AND CONDITIONS

A. LIMITATIONS: Use of the rates set forth under Section I is subject to availability of funds and to any other statutory or administrative limitations. The rates are applicable to a given grant, contract or other agreement only to the extent that funds are available and consistent with any and all limitations of cost clauses or provisions, if any, contained therein. Acceptance of any or all of the rates agreed to herein is predicated upon the following conditions: (1) that no costs other than
those incurred by the institution were included in this indirect cost pool as finally accepted and that such costs are legal obligations of the institution and allowable under governing cost principles; (2) that the same costs that have been treated as indirect costs are not claimed as direct costs; (3) that similar types of costs have been accorded consistent accounting treatment; and (4) that the information provided by the institution which was used as a basis for acceptance of the rates agreed to herein, and expressly relied upon by the Government in negotiating and accepting the said rates is not subsequently found to be materially incomplete or inaccurate.

B. ACCOUNTING CHANGES: The rates contained in Section I of this agreement are based on the accounting system in effect at the time the agreement was negotiated. Changes to the method(s) of accounting for costs, which affect the amount of reimbursement resulting from the use of these rates require the prior written approval of the authorized representative of the cognizant agency for indirect costs. Such changes include but are not limited to changes in the charging of a particular type of cost from indirect to direct. Failure to obtain such approval may result in subsequent cost disallowances.

C. PREDETERMINED RATES: The predetermined rate contained in this agreement is not subject to adjustment in accordance with the provisions of 2 CFR Part 200, subject to the limitations contained in Part A of this section.

D. FIXED RATES WITH CARRY-FORWARD PROVISIONS: The fixed rate contained in this agreement is based on estimates of the costs for FY 2019. When actual costs for this fiscal year are determined, adjustments will be applied to a subsequent rate negotiation to recognize the difference between the FY 2019 estimated costs used to establish the fixed rate and the negotiated actual FY 2019 costs.

E. CARRY FORWARD AMOUNTS: The following FY 2009 and 2010 final, and FY17 estimated carry-forward amounts were considered in the establishment of the FY 2019 fixed rate: () represents over-recovery

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final 2009</td>
<td>($606,223)</td>
</tr>
<tr>
<td>Final 2010</td>
<td>($931,867)</td>
</tr>
<tr>
<td>Estimated FY 2017</td>
<td>($440,731)</td>
</tr>
</tbody>
</table>

F. USE BY OTHER FEDERAL AGENCIES: The rates set forth in Section I are negotiated in accordance with and under the authority set forth in 2 CFR Part 200. Accordingly, such rates shall be applied to the extent provided in such regulations to grants, contracts and other agreements to which 2 CFR Part 200 applies, subject to any limitations in part A of this section. Copies of this document may be provided by either party to other federal agencies to provide such agencies with documentary notice of this agreement and its terms and conditions.
G. DFARS WAIVER: Signature of this agreement by the authorized representative of California Institute of Technology and the Government acknowledges and affirms the University’s request to waive the prohibition contained in DFARS 231.303(1) and the Government’s exercise of its discretion contained in DFARS 231.303(2) to waive the prohibition in DFARS 231.303(1). The waiver request by California Institute of Technology is made to simplify the University’s overall management of DoD cost reimbursements under DoD contracts.

H. SPECIAL REMARKS: The Government’s agreement with the rates set forth in Section I is not an acceptance of Caltech’s accounting practices or methodologies. Any reliance by the Government on cost data or methodologies submitted by Caltech is on a non-precedence-setting basis and does not imply Government acceptance.

Accepted:
FOR THE CALIFORNIA INSTITUTE OF TECHNOLOGY:

SHARONE. PATTERSON
Associate Vice President for Finance and Treasurer

9/26/19

Date

For information concerning this agreement contact:
Brian Bradley
Office of Naval Research

FOR THE U.S. GOVERNMENT:

Snyder.Beth.
A.1379326664

Beth A. Snyder
Contracting Officer

9/26/2019

Date

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E-mail: robert.bradley2@navy.mil