

Office of Housing and Urban Development



Performance Work Statement (PWS) Inventory Management System Public Housing Information Center (IMS/PIC) Technical Assistance & Business Support Requirement

10/23/2018

Version 1.0

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Performance Work Statement (PWS)

Inventory Management System / Public Housing Information Center (IMS/PIC) Technical Assistance & Business Support Requirement

Vision Statement

To provide Technical Assistance and Business Support in the form of: Ad hoc Data Summaries; Advanced Data Analysis; Data Warehouse & Data Mart Technique Utilization; and Advanced Data Analytics Business Support Systems (BSS) in order to:

- Transform and leverage the data collected in the IMS/PIC system
- Empower data scientists, business users and stakeholders to extract, interpret and present insights from data
- Support the dissemination of accurate rental assistance subsidy payments and grant information to Senior Executives, PIH programs and REAC subsystems
- Support PIH rental assistance policy and decision making

1 General Information

1.1 Introduction

In PIH-REAC there is a bona fide need for Technical Assistance and Business support to:

- Transform and leverage the data collected in the IMS/PIC system
- Empower data scientists, business users and stakeholders to extract, interpret and present insights from IMS/PIC data
- Support the dissemination of accurate rental assistance subsidy payments and grant information to Senior Executives, PIH programs and REAC subsystems
- Support PIH rental assistance policy and decision making

This need is evidenced and supported by an increase in staff attrition, the transformation of Public Housing, the modernization of the IMS/PIC database, and the mandate to establish reporting controls under the Improper Payments Elimination and Recovery Act (IPERA). The IMS/PIC Technical Assistance and Business Support Requirement contract fulfills this bona fide need by providing Technical Assistance and Business support in the form of: Ad hoc Data Summaries; Advanced Data Analysis; Geographic & Demographic Information Analysis; Data Warehouse & Data Mart Technique Utilization; and Data Analytics Business Support Systems (BSS) in order to leverage the data collected in the IMS/PIC system, support data scientists, business users and decision making and to support the dissemination of accurate information as highlighted in the bullets above.

1.2 Background

IMS/PIC Database

Within the U.S. Department of Housing and Urban Development (HUD) PIH is responsible for administering and managing a wide range of programs that provide affordable and decent housing to over 3.3 million low income families nationwide. The database that supports PIH with these responsibilities and maintains and collects information for the entire PIH portfolio is known as IMS/PIC. IMS/PIC operates out of the PIH/REAC and supports both the broader mission of PIH as well as the mission of REAC.

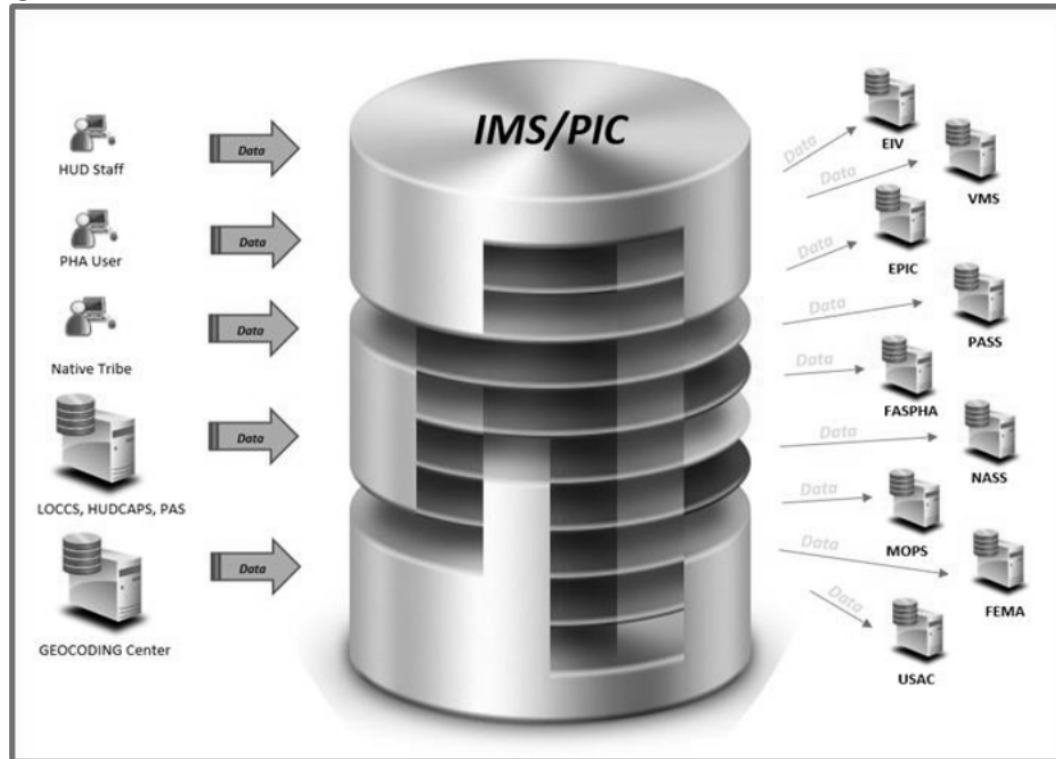
The IMS/PIC database is one of the largest databases at HUD. The size of the database is attributed to the fact that the database contains tenant, building information, unit characteristics, transactions, and the database serves as a national repository of information related to the entire Public Housing Inventory which includes Public Housing Authorities (PHAs), HUD-assisted families, and HUD-assisted properties. The database is also one of the most used at HUD with over 4,250 HUD users, 44,200 PHA users (10,000 users per week), 60 software vendors supporting PHAs and 10 million Family Report submissions. The database is of extreme importance to HUD and PIH because:

- The data contained in IMS/PIC is used in the preparation of statistical and trending reports required for the calculation and payment of rental assistance grants and subsidies which include three high risk programs: HUD's public housing, Section 8 Housing Choice Voucher, and Moderate Rehabilitation programs and owner-administered project-based assistance programs all which funding is appropriated by Congress.
- The database serves as System of Record and contains information that is retrieved by an individual's name or other unique identifier, matched according to data matching agreements where applicable and shared with other HUD systems including REAC subsystems that perform employment and income verification and other financial and physical assessments.
- The data is used for research purposes by internal and external customers such as Congress, Office of Inspector General (OIG), Department of Justice (DOJ), National Archive & Records Administration (NARA), media outlets, research organizations and other individuals and organizations internal and external to HUD wanting and needing information on the inventory of public housing properties and the individuals receiving rental assistance.
- The data is used for HUD & PIH collaborative operations, including data submitted via the Internet from HUD's field offices, and accurately tracks activities and processes which helps to increase sharing of information throughout PIH and HUD, and supports activities related to the administration of HUD-subsidized housing programs that results in effective internal controls, policies and improved decision making.

Figure 1 on Page 6 provides a visual of the IMS/PIC data flow described above.

IMS/PIC Data Flow

Figure 1



Bona Fide Need

Due to staff attrition and reorganization, the transformation of Public Housing, the modernization of the IMS/PIC database, and the mandate to establish reporting controls under the Improper Payments Elimination and Recovery Act (IPERA) there is a need for technical assistance and business support in the form of: Ad hoc Data Summaries; Advanced Data Analysis; Data Warehousing Technique Utilization; and Advanced Data Analytics Business Support Systems (BSS) in order to leverage the data collected in the IMS/PIC system, support data scientists and decision making and to support the dissemination of accurate information.

Staff Attrition & Reorganization

Over the past three years the IMS/PIC team has lost 75% of its staff. Two senior level staff retired which included the Supervisor, one staff member left to pursue other career goals, three staff members were transferred to other REAC areas and in February of 2018 the team was reorganized so that it no longer exists under REAC IT, it exists under the REAC Research & Development arm. This has left only two specialists to deal with the increased demand in data analysis and reporting services and to plan and manage the operations of information systems,

data reporting and data processing activities. With the ongoing IMS/PIC database modernization project, and other PIH transformation initiatives in progress, current staff will be spread thin with special projects and fulfilling day to day adhoc summaries, data analysis requests and being attentive to the needs, technical and business-related matters of over 100+ HUD & PIH customers with the current staff levels, make accomplishing all these tasks impossible. The services rendered by the IMS/PIC Technical Assistance and Business Support Requirement contract will fill the void caused by staff attrition and reorganization allowing for accomplishing of tasks at or above a 100% success rate.

Transformation of Public Housing

Public Housing is changing. A substantial number of units in the Public Housing inventory are at risk of permanent loss. Today, 9% of nearly a million Public Housing units are currently off-line and an additional 15% of the public housing portfolio is in poor condition according to inspection scores. The regulatory structure for the Public Housing program is cumbersome and limits PHAs abilities to adequately address program needs. A recent assessment of Public Housing needs showed the following:

- \$26+ billion - Current backlog
- \$3.5 billion - Annual portfolio-wide needs
- \$2 billion - Annual Congressional funding
- \$1.5 billion - Annual increase in backlog

To avoid permanent loss of inventory PIH is embarking on an Agency Priority Goal Action Plan. The plan which is spearheaded by the PIH General Deputy Assistant Secretary, is to provide PHAs the opportunity to assess their affordable housing needs and act by taking advantage of current opportunities available at HUD to solidify the long-term sustainability of their public housing portfolios. These opportunities are the Rental Assistance Demonstration (RAD), Voluntary Conversion, Section 18 Demolition Disposition and Declaration of Trust Releases. The Agency goal is to reposition 105K units of Public Housing by FY 2019 into these various opportunities. To assist with these assessments and the repositioning of units, PHAs and Field offices will need technical assistance and business support in the form of tools and technologies that provide the calculation methodologies and algorithms for each opportunity, the data validation and verification of the transition transactions, and data analysis on the improvement of the transition. The services rendered under the IMS/PIC Technical Assistance & Business Support Requirement contract provide the means to supply the tools and technologies needed to support this critical agency priority goal. Additionally, as the number of PHAs that can use fungible resources increases, there will be more information collected thus increasing the need for more robust tools and technologies to support data analytics and visual insights of Moving to Work (MTW) households. The services rendered support this rigorous technology advancement as well.

Modernization of the IMS/PIC database

The IMS/PIC database was successfully implemented on December 15, 1999 and introduced a flexible, scalable, Internet-based approach which enables PHA users and Department personnel to access a common database of Housing Authority information via their web browser from anywhere. Currently, the IMS/PIC database needs a myriad of costly repairs and improvements. Since its initial launch, software, web applications, and enterprise systems are faster, leaner, and easier to use than ever before. They can crunch more data, can be backed up on the fly and can be housed in the cloud. As of today, the IMS/PIC database exists in an outdated, unstable state that contributes to under and over reporting and that causes fatal errors and warnings when transmitting and updating data. Dealing with these issues can be quite burdensome for users wanting and needing information. For these reasons the IMS/PIC database is being modernized. The modernization will be cloud based and improve functionality, increase security and shareability, allow for changes in business practices and create better experiences for users. In addition, the modernization will reduce administrative burden on housing authorities in the collection of HUD Family Reports, tenant data, Public Housing building and unit inventory data, and Housing Choice Voucher Information. There will be a streamlined design with emphasis on data analytics and tools and technologies for data reporting. This new streamlined design will affect the way project data is stored in the data warehouse as well as change the way data is collected. Since IMS/PIC serves as source for other critical systems at HUD such as EIV, PASS, VMS etc., it is important to perform impact assessments and make necessary updates to the reporting data structures to ensure smooth migration and continuity of system operations and data warehouse usage. Current data analytic tools and technologies in the form of reports will need to be redesigned and upgraded to support this modernization effort. The redesign and upgrade began under the previous contract and the services rendered under this procurement will support the need as the new modernized version of the IMS/PIC database is tested and deployed.

Mandate to establish reporting controls under the Improper Payments Elimination and Recovery Act (IPERA)

Ineffective financial management plagues the federal government. The Improper Payments Elimination and Recovery Act of 2010 (IPERA), which expanded the use of data analytics to identify and control improper payments, makes the scope of the problem clear. Maintaining compliance with IPERA is critical to the integrity of HUD rental housing assistance programs and has been an area of scrutiny for PIH since 2014. In 2014 HUD OIG found that PIH did not comply with IPERA; specifically, the OIG found that false positives existed in EIV system reports due to a time lag in the data match and the possibility of identity theft; therefore, not all differences were true errors or potential improper payments (2014-FO-0004). To address this finding, the Income Validation Tool (IVT) was built under the previous contract to reduce the incidences of false-positives in the identification of improper payments. The tool is currently being rolled out nationwide to PHAs. Fiscal year 2017 marked the fifth consecutive year in which the HUD OIG found that PIH did not comply with IPERA (2018-FO-0006). Specifically, the OIG recommended that the Deputy Assistant Secretary of REAC work with PIH management to develop management-level reports that will allow PIH management to efficiently and effectively

identify processing entities that are responsible for improper payments. Although the previous contract answered the first finding related to false positives, the services rendered under the IMS/PIC Technical Assistance and Business Support Requirement contract will address the most recent finding related to identifying processing entities. Developing and continuous monitoring of IPERA controls in a secure manner is essential to meet the OIG requirements for IPERA compliance.

1.3 Constraints

The services identified in this PWS will adhere to the rules, regulations, laws, standards, and conventions identified by HUD as well as within the Federal Government listed below and included in the Related Documents sections. Constraints include the following:

Executive Order 13556; Controlled Unclassified Information

This order establishes an open and uniform program for managing information that requires safeguarding or dissemination controls pursuant to and consistent with law, regulations, and Government-wide policies, excluding information that is classified under Executive Order 13526 of December 29, 2009, or the Atomic Energy Act, as amended.

CFR 32, Volume 6, PART 2002—CONTROLLED UNCLASSIFIED INFORMATION (CUI)

This regulation was issued by ISOO to establish policy for agencies on designating, safeguarding, disseminating, marking, decontrolling, and disposing of CUI, self-inspection and oversight requirements, and other facets of the Program. The rule affects Federal executive branch agencies that handle CUI and all organizations (sources) that handle, possess, use, share, or receive CUI—or which operate, use, or have access to Federal information and information systems on behalf of an agency.

NIST 800-53

Standards guidelines and publications used to safeguard Federal information specifically security and privacy concerns for information systems and organizations.

FAR Part 24 Protection of Privacy and Freedom of Information

This part prescribes policies and procedures that apply requirements of the Privacy Act of 1974 (5 U.S.C. 552a) (the Act) and OMB Circular No. A-130, December 12, 1985, to Government contracts and cites the Freedom of Information Act (5 U.S.C. 552, as amended).

FAR Subpart 24.3 Privacy Training

The final rule requires privacy training for contractor employees who handle personally identifiable information, have access to a system of records, or design, maintain, or operate a system of records.

FAR 52.239-1

Clause that covers security concerns.

HUD Privacy Act Handbook 1325.1

This document provides every employee of the Department with information on their rights and responsibilities under the Privacy Act and establishes policies, procedures, requirements and guidelines for the implementation of the Department's Privacy Act responsibilities.

IMS/PIC; Amendment to an existing Privacy Act System of Records Notice (SORN), HUD/PIH.01.

This document reflects changes to the previous SORN in sections which involve participants and PIH program administrators of the Public Housing, Section 8 Certificate, Section 8 Tenant-Based Assistance (Housing Choice Voucher (HCV)), Section 8 Project-Based, and Section 8 Moderate Rehabilitation programs: Categories of Individuals Covered by the System, Categories of Records in the System, Purposes of the System, and Routine Uses of Records Maintained in the System, including Categories of Users and purposes of such use.

IMS/PIC Privacy Impact Assessment

This document identifies the type of personally identifiable information (PII) in the IMS/PIC system (including any ability to combine multiple identifying elements on an individual); identifies who has access to that information (whether full access or limited access rights); and describes the administrative controls that ensure that only information that is necessary and relevant to HUD's mission is included.

1.4 Description of Services

The services being requested are: Ad Hoc Data Summaries; Advanced Data Analysis, Geographic & Demographic Information Analysis, Data Warehouse & Data Mart Technique Utilization; Internet & Intranet Updates; Planning, Tracking & Reporting; and Data Analytics Based Business Support Services.

1.5 Non-Personal Services

The Government will neither supervise Contractor employees nor control the method by which the Contractor performs the required tasks. Under no circumstances shall the Government assign tasks to, or prepare work schedules for, individual Contractor employees. It shall be the responsibility of the Contractor to manage its employees and to guard against any actions that are of the nature of personal services or give the perception of personal services. If the Contractor believes that any actions constitute, or are perceived to constitute personal services, it shall be the Contractor's responsibility to notify the Contracting Officer (CO) immediately. These services shall not be used to perform work of a policy, decision making, or management nature, i.e. inherently Government functions. All decisions relative to programs supported by the Contractor shall be the sole responsibility of the Government.

1.6 Period of Performance

The period of performance shall be for one base period of 12-months and four 12-month option periods.

1.7 Place of Performance

Because this is a re-procurement the services under this contract shall continue to be performed at 550 12th Street, SW, Washington, DC.

1.8 Hours of Operation

The Contractor is responsible for providing services between the hours of 8:00am to 4:30pm Monday thru Friday except for Federal holidays or when the Government facility is closed due to local or national emergencies, administrative closing, or similar Government directed facility closings. Weekly hours shall not exceed a forty (40) hour work week and a typical work day will be 8 hours each day Monday through Friday. The Government reserves the right to change hours of operation or restrict contractor access. Work outside of these daily hours is prohibited without Contracting Officer approval. Government agencies will not be available during scheduled holidays, inclement weather, weekends, and after duty hours. The Contractor shall maintain an adequate workforce for the uninterrupted performance of all tasks defined within the contract when the Government facility is not closed for the above reasons. When hiring personnel, the Contractor shall keep in mind that the stability and continuity of the workforce is essential.

1.9 Special Qualifications

The Contractor should possess the following certifications:

- CMMI Level 3
- ISO 9001 Quality Management
- Project Management Professional Certification - PMP
- HUD and FAA IT Security Training and certification
- Program Management Professional Certification - PgMP
- Certified Oracle Developer - OCP; OCA
- Certified Business Intelligence Developer - MCMD
- Certified Scrum Master- CSM
- Certified Software Quality Specialist - CSQA
- Current HUD IT Security Certification as per [CFR 930.301](#)

Additionally, the Contractor should possess:

- Experience and proficiency in Public Housing grant and subsidy algorithms and business rules including an understanding of how IMS/PIC data is used to calculate subsidy and grant eligibility and determine income verification for rental assistance.
- Experience in linking SharePoint to JIRA entries
- Current Privacy Training as per [FAR Subpart 24.3](#)
- In depth understanding of how to handle Controlled Unclassified Information
- Proficiency in the numerous data analytic software platforms available via HUD Enterprise Architecture
- Knowledge of IMS/PIC known issues and how those known issues affect data collection & dissemination

1.10 Post Award/Kickoff Conference

The Contractor shall attend any post award conference convened by the contracting activity or contract administration office in accordance with FAR Subpart 42.5. The Government intends to convene a Post Award Conference with the Contractor within ten business days after contract award. The Contracting Officer will notify the Contractor of the specific date, location, and agenda within five business days after contract award.

1.11 Status Meetings

The Contracting Officer, Contracting Officer Representative and Subject Matter Expert, as appropriate may meet periodically with the Contractor to also review Contractor performance, requirement status, etc. At these meetings, the Contracting Officer will apprise the Contractor of how the Government views the Contractor's performance or progress of the requirement. The Contractor will apprise the Government of problems, if any, being experienced. Appropriate action shall be taken to resolve outstanding issues. These meetings shall be at no additional cost to the Government. Post Award Conference and subsequent meetings may be held via teleconference.

1.12 Contractor Travel

Prior to travel, the Contractor shall coordinate with and receive Government authorization from the COR for all travel. Reimbursement of travel costs will be in accordance with the Federal Travel Regulation and in accordance with FAR 31.205-46. The Contractor shall travel using the lower cost mode transportation commensurate with the mission requirements. When necessary to use air travel, the Contractor shall use the tourist class, economy class or similar lodging accommodations to the extent they are available and commensurate with the mission requirements. HUD will not reimburse Contractor's local travel. Local travel is defined as travel within fifty (50) miles of Washington, DC. All other travel will be reimbursed on a cost reimbursable basis; no profit or fee will be paid.

1.13 Transition In

The Contractor shall, upon the Contracting Officer's written notice, furnish Transition-In services as required. As a successor, the Contractor shall have sufficient personnel on board during the 30-day Transition-In period to ensure a smooth transition with the incumbent Contractor. The Contractor shall provide an orderly transition of work acceptance and accomplishment such that any impact to the program is minimized. During the Transition-In period, the Contractor shall become familiar with the requirements in order to commence full performance of services by the end of the contract Transition-In period. Transition-In is not required if the successor Contractor is the incumbent Contractor.

1.14 Transition Out

To minimize any decrease in productivity and to prevent possible negative impacts on additional services, the Contractor shall have sufficient personnel on board during the 30-day Transition-

Out period. The incumbent Contractor shall ensure a smooth transition with the successor Contractor during the Transition-Out period, prior to completion of contractual performance.

The incumbent Contractor shall aid the successor in the development of plans, procedures, and methods for the assumption of all on going work. The Contractor shall provide an orderly transition of work acceptance and accomplishment, such that full control by the successor Contractor is achieved by the end of the new contract Transition-In period.

2 Definitions and Acronyms

2.1 Definitions

Advanced Analytics - Focus on forecasting future events and behaviors, enabling businesses to conduct what-if analyses to predict the effects of potential changes in business strategies.

Asset Repositioning Fee - Subsidy eligibility amounts determined by based on the data in IMS/PIC.

Business/Work Days - Every official work day of the week which days between are and including Monday to Friday. This does not include public holidays and weekends.

Calendar Day - Any day of the week.

Capability Maturity Model Integration (CMMI) – A process level improvement training and appraisal program. Administered by the CMMI Institute, a subsidiary of ISACA, it was developed at Carnegie Mellon University.

Contractor - A supplier or vendor awarded a contract to provide specific supplies or service to the Government. The term used in this contract refers to the prime.

Contracting Officer (CO) - A person with authority to enter into, administer, and/or terminate contracts and make related determinations and findings on behalf of the Government. Note: the only individual who can legally bind the Government.

Controlled Unclassified Information (CUI) - Information that requires safeguarding or dissemination controls pursuant to and consistent with applicable law, regulations, and government-wide policies but is not classified under Executive Order 13526 or the Atomic Energy Act, as amended.

Data Analytics - the science of drawing insights from raw information sources. Many of the techniques and processes of data analytics have been automated into mechanical processes and algorithms that work over raw data for human consumption.

Defective Service - A service output that does not meet the standard of performance associated with the Performance Work Statement.

Deliverable - Anything that can be physically delivered but may include non-manufactured things such as meeting minutes or reports.

Government Furnished Property (GFP) - Government-furnished property means property in the possession of, or directly acquired by, the Government and subsequently furnished to the Contractor for performance of a contract. Government-furnished property includes, but is not limited to, spares and property furnished for repair, maintenance, overhaul, or modification. Government-furnished property also includes contractor-acquired property if the contractor-acquired property is a deliverable under a cost contract when accepted by the Government for continued use under the contract.

Grants - Dollar amounts that usually do not have to be repaid but are to be used for defined purposes.

Subject Matter Expert (SME) - An individual designated by the Contracting Officer to assist in providing technical direction and monitoring performance under the contract.

Subsidy - A direct contribution, tax breaks and other special assistance that governments provide businesses to offset operating costs over a lengthy time period.

Contracting Officer Representative (COR) - An employee of the U.S. Government appointed by the Contracting Officer to perform contract administration activities in regard to technical issues. This individual has authority to provide technical direction to the Contractor as long as direction is within the scope of the contract, does not constitute a change and has no funding implications. This individual does NOT have authority to change the terms and conditions of the contract.

Performance Requirements Summary (PRS) - A listing of the performance requirements under the contract that are to be evaluated by the Government on a regular basis, performance indicators for these requirements, performance standards for these requirement and surveillance methods to be used to determine if performance standards are met.

Performance Standard - The Contractor's performance level required by the Government.

Performance Work Statement (PWS) - A statement of work for performance-based acquisitions that describe the required results in clear, specific and objective terms with measurable outcomes.

Physical Security - Actions that prevent the loss or damage of Government property.

Public & Indian Housing - Public & Indian Housing

Quality Assurance (QA) - Policies and procedures adopted by the Government to ensure that supplies and services acquired under Government contracts conform to the contracts quality requirements.

Quality Assurance Surveillance Plan (QASP) - A plan describing how the agency will survey, observe, test, sample, evaluate and document the Contractor's performance in meeting critical performance standards identified in the contract.

Quality Control (QC) - All necessary measures taken by the Contractor to assure that the quality of an end product of service shall meet contract requirements.

Service Contract - A contract that directly engages the time and effort of a Contractor whose primary purpose is to perform an identifiable task rather than to furnish an end item of supply.

Subcontractor - Any person other than the prime Contractor, who offers to furnish or furnishes any supplies, material, equipment, or services of any kind under a prime contract or a subcontract entered into in connection with such prime contract, and any person who offers to furnish or furnishes general supplies to the prime contractor or a higher tier subcontractor. The Government does not have privity of contract with a subcontractor.

Subsidy - Direct contributions, tax breaks and other special assistance that governments provide businesses to offset operating costs over a lengthy period.

Work Week - Monday through Friday, unless specified otherwise.

2.2 Acronyms

AQL - Acceptable Quality Level

ARAMS - Automated Renewal and Amendment System

BAA - Business Area Analysis Study

CBT - Computer-Based Training

CCB - Change Control Board

CCMB - Configuration Change Management Board

CMMI - Capability Maturity Model Integration

CFO or OCFO - Office of the Chief Financial Officer of HUD

CFR - Code of Federal Regulations

CIO or OCIO - Office of the Chief Information Officer of HUD

CO - Contracting Officer

COR - Contracting Officer Representative

COTS - Commercial Off-the-Shelf

CPO - Office of the Chief Procurement Officer of HUD

EST - Eastern Standard Time (U.S.)

ETC - Estimate to Completion

2. CONTRACT NO. 86614819C00003
 3. AWARD/EFFECTIVE DATE
 4. ORDER NUMBER
 5. SOLICITATION NUMBER 86548A19R00003
 6. SOLICITATION ISSUE DATE 04/11/2019

7. FOR SOLICITATION INFORMATION CALL: **VIRGIL ROGERS**
 a. NAME: VIRGIL ROGERS
 b. TELEPHONE NUMBER (No collect calls)
 8. OFFER DUE DATE/LOCAL TIME: MT

9. ISSUED BY: US DEPARTMENT OF HUD
 OFFICE OF THE CHIEF PROCUREMENT OFFICER
 1670 BROADWAY 23RD FLOOR
 DENVER CO 80202-4801
 CODE: HUD-NFWP

10. THIS ACQUISITION IS:
 UNRESTRICTED OR
 SET ASIDE: % FOR:
 SMALL BUSINESS
 HUBZONE SMALL BUSINESS
 SERVICE-DISABLED VETERAN-OWNED SMALL BUSINESS
 WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOMEN-OWNED SMALL BUSINESS PROGRAM
 EDWOSB
 8(A)
 NAICS: 541611
 SIZE STANDARD: \$15.0

11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED
 SEE SCHEDULE
 12. DISCOUNT TERMS
 13a. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)
 13b. RATING: DC9
 14. METHOD OF SOLICITATION:
 RFQ IFB RFP

15. DELIVER TO: HUD-P
 HUD-P
 451 7TH STREET SW
 WASHINGTON DC 20410
 CODE: HUD-P

16. ADMINISTERED BY: US DEPARTMENT OF HUD
 OFFICE OF THE CHIEF PROCUREMENT OFFICER
 1670 BROADWAY 23RD FLOOR
 DENVER CO 80202-4801
 CODE: HUD-NFWP

17a. CONTRACTOR/OFFEROR: CLOUD NINE TECHNOLOGIES INC
 12606 CAMBERLEY FOREST DR
 HERNDON VA 20171-1721
 CODE: 145207101
 FACILITY CODE:
 18a. PAYMENT WILL BE MADE BY: ARCADAPB
 ARCADAPB AVERY 3G
 PO BOX 1328
 ACCOUNTSPAYABLEFISCALTREASURYGOV
 PARKERSBURG WV 26106-1328
 CODE: ARC/ASD/APB

17b. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER
 18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a UNLESS BLOCK BELOW IS CHECKED SEE ADDENDUM

19. ITEM NO.	20. SCHEDULE OF SUPPLIES/SERVICES	21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
0001	Tax ID Number: 20-0497260 DUNS Number: Not Available Inv Approver/COR Backup1: BLACKMAN, ADRIAN Period of Performance: 04/30/2019 to 04/29/2024 IMS/PIC Base Year Obligated Amount: \$847,000.11 Delivery: 04/29/2020 Accounting Info: Continued ... (Use Reverse and/or Attach Additional Sheets as Necessary)				847,000.11

25. ACCOUNTING AND APPROPRIATION DATA: See schedule
 26. TOTAL AWARD AMOUNT (For Govt. Use Only): \$3,990,942.12

27a. SOLICITATION INCORPORATES BY REFERENCE FAR 52.212-1, 52.212-4, FAR 52.212-3 AND 52.212-5 ARE ATTACHED. ADDENDA ARE ARE NOT ATTACHED.
 27b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-4. FAR 52.212-5 IS ATTACHED. ADDENDA ARE ARE NOT ATTACHED.

28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 1 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: OFFER DATED YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS:

30a. SIGNATURE OF OFFEROR/CONTRACTOR: *Ranjeev Pamnani*
 30b. NAME AND TITLE OF SIGNER (Type or print): Ranjeev Pamnani, President
 30c. DATE SIGNED: 04/26/2019
 31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER): *Adrian C. Blackman*
 31b. NAME OF CONTRACTING OFFICER (Type or print): ADRIAN C. BLACKMAN
 31c. DATE SIGNED: 4/26/2019



U.S. Department of Housing and Urban Development
Washington, D.C. 20410

OFFICE OF THE CHIEF PROCUREMENT OFFICER

Contract 86614819C00003 IMS/PIC Technical Assistance:

Contract Officer: Christopher S. Stuart

Contract Specialist: Rebeca Alward

Contracting Officer Representative: Michael Davenport

Program/Project Manager: Robin Hawkins