




REQUEST FOR PROPOSAL

1. The Philippine Institute for Development Studies (PIDS) invites all eligible individual consultants to submit proposals for the **Biostatistics Consultant for “PIDS-DOH-PHIC Technical Assistance on the UHC Provider Payment Reforms in 2023: Development of Diagnosis-Related Group (DRG) payment rates and Provider Payment Mechanism Monitoring and Evaluation Framework for PhilHealth”**.
2. The Approved Budget for the Contract (ABC) is **PhP250,000.00**.
3. Interested consultants must submit the following documents using PIDS the prescribed forms:
 - a) Curriculum Vitae of the proposed Consultant(s)¹
 - b) Technical Proposal Form¹
 - c) Financial Proposal Form¹
 - d) Filled out Data Privacy Notice and Personal Data Protection Form¹
 - e) Statement of Completed contracts²
 - f) Statement of All Ongoing and Awarded But Not Yet Started Contracts²
 - g) Notarized Omnibus Sworn Statement (for ABC above PhP50,000.00)¹
 - h) Income/Business Tax Returns (for ABC above PhP500,000.00)¹
 - i) PhilGEPS Registration Number (certificate or screenshot)¹
 - j) Valid Mayor's/Business Permit (Firm) or BIR Certificate of Registration³ (Individual).
4. Interested consultants may obtain further information from the Procurement Management Division at telephone via email at procurement@pids.gov.ph.
5. The Institute shall adopt the Quality-Based Evaluation procedure in selecting consultants based on the attached Terms of Reference.
6. The deadline for submission of proposals is on **14 November 2024 (5:00 PM)** addressed to:

The BAC Chairperson for Consultancy
Services c/o The BAC Secretariat
Procurement Management Division
18/F Three Cyberpod Centris – North Tower, EDSA cor. Quezon Ave., Quezon City

Proposals may also be submitted through email at procurement@pids.gov.ph .

7. PIDS reserves the right to reject any or all of the proposals, declare a failure of bidding, or not award the contract if there is evidence of collusion, including any act that restricts, suppresses, or nullifies competition, or if there is a failure to follow the prescribed bidding procedures. PIDS also reserves the right to waive any required formality in the proposals received and select the proposal it determines most advantageous to PIDS.


DR. AUBREY D. TABUGA
Chairperson
PIDS-BAC for Consultancy Services

Reference No.:2024-375

¹Applicable for individual consultants and firms

²Applicable for firms only

³ Individual consultants must issue Official Receipt (OR) during payment.

Philippine Institute for Development Studies
TERMS OF REFERENCE

Biostatistics Consultant

for

“PIDS-DOH-PHIC Technical Assistance on the UHC Provider Payment Reforms in 2023: Development of Diagnosis-Related Group (DRG) payment rates and Provider Payment Mechanism Monitoring and Evaluation Framework for PhilHealth”¹

1. Background and Rationale

With the enactment of the Universal Health Care Law, the Philippine Health Insurance Corporation (PhilHealth) has been empowered to act as the national strategic purchaser of individual-based health services. A critical health provider payment mechanism (PPM) reform that PhilHealth must implement under the Universal Health Care Law is the Diagnosis Related Groups (DRGs). The DRGs represent a significant advancement in transitioning the current all-case rate system from retrospective payments based only on service outputs to value-based payments that incentivize quality, efficiency, and equitable care and improve health at lower costs for the health sector and patients.

Moreover, such complex reforms require that PhilHealth maintain the DRGs and other PPM systems over the long term. This requires improving PhilHealth’s data quality and monitoring frameworks and plans to evaluate whether these reforms achieve its goals for value-based purchasing. On both of these fronts, PIDS will assist PhilHealth in developing DRG payment rates and the monitoring and evaluation framework for the DRGs and future PPMs.

2. Objectives of the Study

1) DRG Rate-Setting Analysis

- a) Document the process for calculating DRG v0 base rates, charge weights, adjustment factors, economic homogeneity metrics, complexity level evaluations, hospital case mix distributions, and financial impact of DRGs to PhilHealth and providers.
- b) Identify recommendations to enable PhilHealth in adopting and using the Thai DRG for hospital payments in the near future (i.e., DRG version 1)

2) Monitoring and Evaluation

- a) Craft monitoring framework and plan for assessing the effects of DRG and other PPM reforms on the quality, efficiency, and equity of hospital care.
- b) Using hospital statements of account/itemized billing data:
 - i) Calculate standardized room charges and validate against e-claims charges
 - ii) Determine the quality of care and cost of services for two diseases

¹ Charged against the component study PIDS-DOH-PHIC Technical Assistance on the UHC Provider Payment Reforms in 2023: Development of Diagnosis-Related Group (DRG) payment rates and Provider Payment Mechanism Monitoring and Evaluation Framework for PhilHealth

3. Objectives of the Consultancy

The Consultant will provide expert technical advice on rate-setting processes, analysis, and monitoring and evaluation framework for the DRGs. The Resource Person shall also conduct a series of training seminars and workshops to train PIDS personnel in policy analysis for the 2025 DRG deliverables.

4. Scope of Work, Deliverables, and Schedule of Payment Releases

Under the guidance and technical oversight of a PIDS Research Fellow, the **Consultant**² is expected to work with the Project Team and undertake the following tasks/activities³:

- a) Form a small team of biostatisticians and methods experts to provide technical guidance and training, via online or face-to-face workshops in **November to December 2024**, to the health study team regarding **biostatistics, research methods, and their application in Stata**. The following topics shall be covered through 5 workshop modules:

Topic	Sessions
Workshop 1: Biostatistics Part 1	<ul style="list-style-type: none"> • Session 1 – Variables and levels of measurement, descriptive statistics and graphs, and population health indicators • Session 2 – Probability distributions and introduction to statistical inference • Session 3 – Estimation of Mean and Proportion and Sampling • Session 4 – Steps in hypothesis testing (chi-square test, t-tests, etc.)
Workshop 2: Biostatistics Part 2	<ul style="list-style-type: none"> • Session 1: Analysis of variance and correlation; Introduction to confounders • Session 2 – Simple linear regression (assumptions, practice, interpretation) • Session 3 – Logistic Regression (assumptions, practice, interpretation)
Workshop 3: Research Methods	<ul style="list-style-type: none"> • Session 1 – Overview of the research process, problem identification, and objective setting • Session 2 – Review of Literature (identifying methods and making conceptual frameworks, etc.) • Session 3 – Data collection methods (measurement of variables and sources of data- quantitative and qualitative) • Session 4 – Research Design (cross-sectional and cohort, etc.)

² The consultant may be an individual or a firm.

³ If the consultant needs to undertake physical/ face-to-face interviews and data collection and related activities, the consultant has to ensure compliance with existing and future policies, rules, and resolutions as may be issued by concerned government agencies pertaining to health and safety.

Workshop 4: Research Methods and Stata application	<ul style="list-style-type: none"> • Session 1 – Sampling and Sample Size • Session 2 – Statistical Analysis Plan • Session 3 – Learning about Stata’s Language Syntax and Stata Commands and Functions for Data Management (pt.1) • Session 4 – Stata Commands & Functions for Data Management (pt.2)
Workshop 5: Use of Stata for Research and Statistics	<ul style="list-style-type: none"> • Session 1 – Duplicates, Datasets, Macros, and Looping • Session 2 – Estimation and the Use of Survey Weights • Session 3 – Bivariate Data Analyses • Session 4 – Regression Analyses • Session 5- Automated results/ outputs (table, putexcel, etc.)

- a) Sign a Non-Disclosure Undertaking with PIDS. Any information gathered and generated in the implementation of the project shall be processed subject to the applicable provisions of the Republic Act No. 10173, known as the “Data Privacy Act of 2012” and its Implementing Rules and Regulations and relevant issuances of the National Privacy Commission (NPC); and
- b) Perform other professional, highly technical, and confidential duties and responsibilities as the Research Fellow may assign from time to time.

The Consultant will prepare the following outputs based on the schedule below:

Activities and Deliverables	Due Dates	Payment Tranches
<ul style="list-style-type: none"> • Detailed training or workshop plan outlining topics, learning objectives, and specific activities for each session under each workshop module 	November 29, 2024	15%
<ul style="list-style-type: none"> • Presentation deck used in the technical training provided to the PIDS study team for Workshop Modules 1 to 2 • Copies of other reference materials used during the training/ workshop for Workshop Modules 1 to 2 (ex. curriculum, sample exercises, codes, etc.) 	December 12, 2024	35%
<ul style="list-style-type: none"> • Presentation deck used in the technical training provided to the PIDS study team for Workshop Modules 3 to 5 • Terminal Report • Turnover of draft and materials used together, including Copies of other reference materials used during the training/ workshop for Workshop Modules 3 to 5 (ex. curriculum, sample exercises, codes, etc.) • Certification indicating the turnover of as well as the deletion of such data and that it will allow PIDS to 	December 27, 2024	50%

verify if the data is complete.		
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NOTE: Payments will be based on the acceptance and approval by PIDS of the corresponding outputs

5. Qualifications of the Consultant

The resource person shall have the following qualifications:

- a. Post-graduate degree in Statistics, Biostatistics, or related fields.
- b. At least 5 years of professional or research experience in statistics
- c. Extensive experience in sampling methods, design, weighted analysis, and execution
- d. Advanced skills in quantitative analysis, statistical coding and software, technical writing, and communication.

6. Project Duration

The engagement will commence upon the signing of the Contract until **December 30, 2024**, on a part-time basis. The Consultant's work must be completed within this period, and no man days will be chargeable after this date.

7. Approved Budget for the Contract

The approved budget for this consulting service is up to **PHP 250,000.00**, depending on the qualifications. The budget includes professional fee of the main Consultant as well as professional fee for his/her training team and support staff. This amount does not include travel and accommodation during fieldwork. PIDS will shoulder the cost of fieldwork, if any. PIDS shall not cover hospitalization and other COVID-related health expenses of the consultant as no employer-employee relationship shall exist between the PIDS and the Consultant.


8. Evaluation Criteria


The Consultant will be evaluated based on the following criteria:


Criteria	Weight
Consultant's Qualifications: <ol style="list-style-type: none"> a. Post-graduate degree in Statistics, Biostatistics, or related fields b. At least 5 years of professional or research experience in statistics. c. Extensive experience in sampling methods, design, weighted analysis, and execution 	50%
Plan of approach and methodology: <ol style="list-style-type: none"> a. Clarity, feasibility, innovativeness, and comprehensiveness of the approach 	50%

b. Incisive interpretation of problems and suggested solutions	
Total	100%

b. Detailed rating sheet: please see attached


Prepared by: **Dr. Valerie Gilbert T. Ulep**
Senior Research Fellow and Project Director


Reviewed by: **Ms. Christine Ruth P. Salazar**
Division Chief II, RPMD


Approved by: **Dir. Renee Ann Jolina Catbog Ajayi**
Department Manager III, RSD

Digitally signed by Ajayi
Renee Ann Jolina Cat bog
Date: 2024.11.05
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