Title: Health impact and cost-effectiveness of introduction of diphtheria, tetanus and pertussis booster doses in low- and middle-income countries

Request for Proposals (RFP)

Bid Reference
UHC-LC/IVB/IVR/dtp_lmic

Unit Name
Initiative for Vaccine Research

Purpose of the RFP:

To develop a mathematical model to estimate the health impact and cost-effectiveness of introduction of three booster doses of diphtheria, tetanus and pertussis booster doses in low- and middle-income countries. To work with collaborators to pilot the model using data from Uganda and refine in light of lessons learned from the pilot.

Closing Date:

[14 February 2020]
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1. INTRODUCTION

1.1 Objective of the RFP

The purpose of this Request for Proposals (RFP) is to enter into a contractual agreement with a successful bidder and select a suitable contractor to carry out the following work: to develop a mathematical model to estimate the health impact and cost-effectiveness of introduction of three booster doses of diphtheria, tetanus and pertussis booster doses in low- and middle income countries.

WHO is an Organization that is dependent on the budgetary and extra-budgetary contributions it receives for the implementation of its activities. Bidders are, therefore, requested to propose the best and most cost-effective solution to meet WHO requirements, while ensuring a high level of service.

1.2 About WHO

1.2.1 WHO Mission Statement

The World Health Organization was established in 1948 as a specialized agency of the United Nations. The objective of WHO (www.who.int) is the attainment by all peoples of the highest possible level of health. "Health", as defined in the WHO Constitution, is a state of complete physical, mental and social well being and not merely the absence of disease or infirmity. WHO's main function is to act as the directing and coordinating authority on international health work.

1.2.2 Structure of WHO

The World Health Assembly (WHA) is the main governing body of WHO. It generally meets in Geneva in May of each year and is composed of delegations representing all 194 Member States. Its main function is to determine the policies of the Organization. In addition to its public health functions, the Health Assembly appoints the Director-General, supervises the financial policies of the Organization, and reviews and approves the proposed programme budget. It also considers reports of the WHO Executive Board, which it instructs with regard to matters upon which further action, study, investigation or report may be required.

The Executive Board is composed of 34 members elected for three-year terms. The main functions of the Board are to give effect to the decisions and policies of the WHA, to advise it and generally to facilitate its work. The Board normally meets twice a year; one meeting is usually in January, and the second is in May, following the World Health Assembly.

The WHO Secretariat consists of some 7,900 staff at the Organization’s headquarters in Geneva, in the six regional offices and in countries. The Secretariat is headed by the Director-General, who is appointed by the WHA on the nomination of the Executive Board. The head of each regional office is a Regional Director. Regional directors are appointed by the Executive Board in agreement with the relevant regional committee.

1.2.3 Description of Cluster/Service/Unit

WHO’s Initiative for Vaccine Research (IVR) facilitates vaccine research and development (R&D) against pathogens with significant disease and economic burden, with a particular focus on low and middle income countries. Our activities span the following areas:

- facilitation of early stage R&D in disease areas with no available vaccines or sub-optimal vaccines,
- research to optimize public health impact where existing vaccines are underutilized,
- research to aid introduction decision-making and post-licensure assessments of risk/benefit, and
- research to improve monitoring and evaluation of vaccines in use in immunization programmes.

IVR activities align with the strategic objective 6 of the Global Vaccine Action Plan “Country, regional and global research and development innovations maximize the benefits of immunization”, and with the fifth goal of the Decade of Vaccines “Develop and introduce new and improved vaccines and technologies”. 
1.3 Definitions, Acronyms and Abbreviations

CDC: US Centers for Disease Control and Prevention
DTP: diphtheria-tetanus-pertussis
DTPCV: diphtheria-tetanus-pertussis containing vaccine
Gavi: Gavi, The Vaccine Alliance
LMIC: Low- and middle-income country
WHO: World Health Organization
2. BACKGROUND: DESCRIPTION OF PRESENT ACTIVITIES

If any: description of the existing activities currently undertaken by Initiative for Vaccine Research and related to the objective of this Request for Proposals.

2.1 Overview and current approach

Booster doses of diphtheria, tetanus and pertussis-containing vaccine (DTPCV) in the second year of life, at school-entry and early adolescence have been recommended by World Health Organization (WHO) since 1997 [1] and subsequently in 2006 [2]. In February 2018 the Strategic Advisory Group of Experts (SAGE) and WHO revised and strengthened recommendations for booster doses of DTPCV vaccines [3], highlighting their importance for Maternal Neonatal Tetanus Elimination (MNTE) and reducing the risk of diphtheria outbreaks [4]. Introduction of DTPCV boosters would also contribute to strengthening the life course approach to vaccination, a recommendation of the Global Vaccine Action Plan (GVAP)[5]. In 2018, a total of 136 (70%) of WHO member states offered at least one booster dose of DTPCV in their routine immunization schedule [6]. In 2017, 15 of 73 countries eligible for support from Gavi had introduced all three DTPCV booster doses [7].

Contingent on the final parameters of Gavi’s 2021-2025 strategy (Gavi 5.0) and sufficient funding being made available after Gavi’s next replenishment, the Gavi Board has approved provision of the following for Gavi-eligible countries, a) catalytic funding to establish vaccine delivery platforms for each DTPCV booster dose and b) ongoing financial support procurement of the DTPCV booster doses in line with the co-financing policy [8, 9]. The Gavi boards decision was based on projections from modeling done for Gavi’s vaccine investment strategy (VIS) that TPCV booster doses provide high value for money given medium health impact and low vaccine procurement costs [10]. There is currently no available model to inform country-level decision making about introduction of DTPCV booster doses. A consortia of partners in the Vaccine Impact Modelling consortium (VIMC) have developed country-level vaccine impact projections for several vaccine preventable diseases, diphtheria, tetanus and pertussis are not currently included in the scope of the VIMC.

With an increasing number of new vaccines and booster doses of existing vaccines being recommended throughout the life course and resource limitations faced by Gavi-eligible LMICs, decision-makers in these countries are looking for information about country-specific health and economic benefits to inform the introduction of any new vaccine or booster dose. To help inform the decision making in Uganda, a mathematical model of diphtheria, tetanus and pertussis transmission will be developed to estimate the health impact and cost-effectiveness of introducing three booster doses of diphtheria-tetanus-pertussis containing vaccine into Uganda’s routine immunization program. Such evidence will also be helpful globally, as evaluation of the combined health impacts (for diphtheria, tetanus and pertussis) and cost-effectiveness of introducing three DTPCV booster doses has not yet been undertaken, at a country level, in any Gavi-eligible country.

References
2.2 Objectives of the present activity

The purpose of this assignment is to develop a single integrated mathematical (disease and economic evaluation) model to estimate the health impact on diphtheria, tetanus, and pertussis and the cost-effectiveness of introducing three WHO-recommended booster doses of DTPCV in an individual LMIC. The generic model will be initially piloted using data about Uganda, with estimates used to inform decision-making about the introduction of DTPCV booster doses in Uganda but the model developed needs to be able to be applied to all LMICs.

2.3 Activity coordination

Activities will be coordinated by a senior economist at WHO, with technical oversight from a steering committee.
3. REQUIREMENTS

3.1 Introduction

WHO requires the successful bidder, the Contractor, to develop and validate a mathematical model to estimate the burden of disease and cost effectiveness of diphtheria-tetanus-pertussis containing vaccine in a low- or middle-income country (LMIC) setting. In addition, the successful bidder, the Contractor, will support pilot testing of this model using data from Uganda.

3.2 Characteristics of the provider

3.2.1 Status

The provider shall be a [☐ for profit][☒ not for profit] institution operating in the field of public health with proven expertise in mathematical modelling of the health and economic effects of immunization programmes.

3.2.2 Accreditations

An accreditation () or an on-going accreditation process by a certified accreditation body will be an asset.

3.2.3 Previous experience

Previous work with WHO, other international organizations and/or major institutions in the field of: mathematical modelling and economic evaluation of vaccination programmes is ☒ required OR ☐ desirable. Proven experience in: development and validation of dynamic or static mathematical models using open source software and with user-friendly interfaces to enable others to utilize them is ☒ required OR ☐ desirable. At least 5 years of experience with modelling the health and economic impact of vaccination programs is ☒ required.

3.2.4 Staffing

The work should be led by a mathematical modeler with the following qualifications, skills and experience:

- Doctoral degree in health economics, mathematics, medicine, public health, health financing or other related field
- Skills in the development of dynamic or static mathematical models using open source software and with user-friendly interfaces to enable others to utilize them
- At least 5 years of experience with modelling the health and economic impact of vaccination programs

Additional desired qualifications, skills and experience

- Understanding of diphtheria, tetanus and pertussis vaccination and disease
- Familiarity with health care policy and practice in low- and middle income country contexts, preferably with relation to vaccine-preventable diseases.

3.3 Work to be performed

Task 1: Description of the proposed approach

Task 1 deliverables: inception report draft, conference call with steering committee, revised inception report incorporating steering committee feedback

Provide a brief (<5 pages inception report) description of the proposed design of a mathematical model or package of models to estimate the combined health impact (diphtheria, tetanus and pertussis) and cost-effectiveness of DTPCV booster doses.
The inception report should contain at least the following elements
- Background on existing models estimating the health impact and cost-effectiveness of diphtheria, tetanus and pertussis in combination
- Detailed methodological approach to model design incl. minimum features of the model and approach to model validation (see Task 2)
- Revised workplan incl. key activities and timeline for each
- References, as appropriate

Participate in at least 4 conference calls with the project steering committee to answer questions and receive feedback. Provide a revised inception report, incorporating feedback received from the steering committee.

Task 2: Development of the model or package of models
Task 2 deliverable: Model or package of models, validated and with user interface for entering pilot data from Uganda

The model or package of models (for each disease) should be based on established peer reviewed models that estimate health benefit and cost effectiveness for diphtheria, tetanus and pertussis, either alone or in combination. However, development of a new model or addition of more or more named diseases to an existing model for one of the named disease is not discouraged, if it can be done within the parameters described here.

Minimum features of the model or package of models
- Adheres to established best practices for development of mathematical models and principles of economic evaluation of immunization programmes, such as those developed by WHO [11].
- Valid and calibrated model that encompasses the behavioural patterns of diphtheria, tetanus and pertussis to fully capture the effect of DTPCV booster doses (vaccination) on population immunity.
- Estimate health impacts terms of cases, deaths and disability-adjusted life years (DALYs) averted for diphtheria, tetanus and pertussis due to receipt of DTPCV booster doses.
- Produce the following incremental cost-effectiveness ratios comparing scenarios of DTPCV booster dose introduction to the status quo of infant DTP vaccination, without booster dose introduction:
  - Cost per case of diphtheria, tetanus and pertussis averted, both alone and in combination
  - Cost per death from diphtheria, tetanus and pertussis averted both alone and in combination
  - Cost per DALY from diphtheria, tetanus and pertussis averted, both alone and in combination
- Be able to perform univariate sensitivity analysis, which will be conducted to account for uncertainty in the secondary data sources used relative to actual conditions in Uganda. Preference will be given to models capable of multivariate and probabilistic sensitivity analysis.
- User-interface for non-modeler

Task 3: Piloting and refinement of the model
Deliverable: Technical support provided throughout the pilot period until Uganda-specific outputs are finalized. Includes making refinements to the structure and operation of the model as identified through piloting.

The model will be piloted using data from Uganda. Model parameters, including direct and indirect economic costs obtained from a combination of primary and existing data, vaccination coverage and disease-specific epidemiologic data (e.g. incidence, deaths) will be gathered by the US Centers for Disease Control and Prevention (CDC) in conjunction with the Ministry of Health Ugandan National EPI (UNEPI), WHO Uganda and other immunization partners. These data will be provided to the modeler who will work in collaboration with CDC and WHO to obtain Uganda-specific outputs and in the process, refine the structure and operation of the model.
References

3.3.1 Key requirements
At the conclusion of this consultancy it is expected that a functioning, valid, easily accessible and user-friendly model to estimate the health impact and cost-effectiveness of DTPCV booster doses has been developed, and piloted with inputs from Uganda. The Uganda-specific results obtained through piloting of the model will be available to the Government of Uganda to inform decision-making about the introduction of DTPCV booster doses into the routine immunization program in Uganda.

The following are the expected deliverables
- Inception report. Two versions, a) draft for feedback by the steering committee and b) final version.
- Initial version of the model validated with available data (from any country setting) to illustrate its ability to predict actual events.
- Technical assistance to the collaborator piloting the model with Uganda specific inputs
- Refinement of the model based on feedback from the pilot.
- Final version of a valid mathematical model that estimates the health impact on diphtheria, tetanus, and pertussis combined and the cost-effectiveness of introducing three WHO-recommended booster doses of DTPCV, that has a user-friendly interface.
- Presentation of progress on deliverables at a minimum of four steering committee teleconferences

The US Centers for Disease Control and Prevention in collaboration with the World Health Organization will lead publication of results from the application of the model using inputs for Uganda, which will also include a description of the model in the methods section. Outside of the contract period and pending interest, the vendor can provide input into this manuscript as a co-author and is free to publish separately about the model and its methods in general, though should not include its specific application for Uganda.

3.3.2 Place of performance
Current workplace or home.

3.3.3 Timelines
Work will commence from the time the contract is awarded.

3.3.4 Reporting requirements
Formal progress reviews will be undertaken by a project-specific steering committee, with a minimum of four teleconferences throughout the project period. Periodic, less formal, progress reviews will be undertaken by the technical officer at WHO at mutually agreed-upon intervals (e.g. weekly, fortnightly) which may vary throughout the duration of the contract – these are designed to be mutually beneficial.

The following table outlines the required tasks, deliverables, reporting requirements and timeframe in which these should be achieved.

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<th>Task/deliverable</th>
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Inception report | Initial draft inception report outlining the design of the model | Within 30 days after contract award
---|---|---
Draft, validated model | Draft model with results from model validation shared with WHO and steering committee | Within 60 days after WHO technical officer notifies that Steering Committee has accepted the final version of the inception report
Final validated model, with user friendly interface | Validated draft model with user friendly interface shared with WHO and collaborators piloting the model | Within 45 days after draft validated model finalized
Technical assistance during piloting using Uganda data | Evidence of emails or phone calls responding to requests for support | During pilot phase
Review of pilot results | Written feedback on pilot results from the model | During pilot phase
Refinement of model based on results from pilot | Evidence of emails, phone calls or feedback on a document responding to requests for support | During pilot phase
Technical assistance to finalize report on the Uganda-specific results | Evidence of feedback on reporting of the draft results from Uganda | During pilot phase
Final validated model with user interface that incorporates changes from the pilot phase | Functioning mathematical model with user-friendly interface that estimates the health impact on diphtheria, tetanus, and pertussis combined and the cost-effectiveness of introducing three WHO-recommended booster doses of DTPCV. | End of the contract period
Input into peer reviewed article about Uganda-specific results as co-author | Published version of peer reviewed article with name listed as a co-author | Optional outside of the contract period

3.3.5 Performance monitoring

Formal progress reviews will be undertaken by a project-specific steering committee, with a minimum of four teleconferences throughout the project period. Periodic, less formal, progress reviews will be undertaken by the lead technical officer at WHO at mutually agreed-upon intervals (e.g. weekly, fortnightly) which may vary throughout the duration of the contract – these are designed to be mutually beneficial.

3.3.6 Further capacities

N/A
4. **INSTRUCTIONS TO BIDDERS**

Bidders should follow the instructions set forth below in the submission of their proposal to WHO:

**WHO will not be responsible for any proposal which does not follow the instructions in this RFP, including this Section 4, and may, at its discretion, reject any such non-complaint proposal.**

4.1 **Language of the Proposal and other Documents**

The proposal prepared by the bidder, and all correspondence and documents relating to the proposal exchanged by the bidder and WHO shall be written in the English language.

4.2 **Intention to Bid**

**No later than 6 January 2020** the bidder shall complete and return by email to WHO to the following addresses: mafungan@who.int

1. The RFP UHC-LC/IVB/IVR/dtp_lmic Acknowledgement form, attached hereto as Annex 1, signed as confirmation of the bidder’s intention to submit a bona fide proposal and designate its representative to whom communications may be directed, including any addenda; and
2. The RFP UHC-LC/IVB/IVR/dtp_lmic Confidentiality Undertaking form, attached hereto as Annex 2, signed;
3. The Self-Declaration form, attached hereto as Annex 6, signed.

These forms are confirming the bidder’s intention to submit a bona fide proposal and designating a representative to whom communications may be directed, including any addenda.

WHO reserves the right to reject proposals from bidders who have not submitted the above-listed forms in accordance with this section.

4.3 **Cost of Proposal**

The bidder shall bear all costs associated with the preparation and submission of the proposal, including but not limited to the possible cost of discussing the proposal with WHO, making a presentation, negotiating a contract and any related travel. WHO will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the selection process.

4.4 **Contents of the Proposal**

☐ **Option 1:** Proposals must offer the total requirement. Proposals offering only part of the requirement may be rejected.

☐ **Option 2:** Proposals may offer the total requirement or only part thereof. The bidder shall indicate precisely which specific part of the requirement it intends to provide by completing Proposal Completeness form, attached hereto as Annex 3.

The bidder is expected to follow the proposal structure described in paragraph “Proposal Structure” below and otherwise comply with all instructions, terms and specifications contained in, and submit all forms required
pursuant to, this RFP. Failure to follow the aforesaid proposal structure, to comply with the aforesaid instructions, terms and specifications, and/or to submit the aforesaid forms will be at the bidder’s risk and may affect the evaluation of the proposal.

4.5 Joint Proposal

Two or more entities may form a consortium and submit a joint proposal offering to jointly undertake the work. Such a proposal must be submitted in the name of one member of the consortium - hereinafter the “lead organization”. The lead organization will be responsible for undertaking all negotiations and discussions with, and be the main point of contact for, WHO. The lead organization and each member of the consortium will be jointly and severally responsible for the proper performance of the contract.

4.6 Communications during the RFP Period

A prospective bidder requiring any clarification on technical, contractual or commercial matters may notify WHO via email at the following address no later than 15 working days prior to the closing date for the submission of offers:

Email for submissions of all queries: mafungan@who.int
(use subject: Bid Ref. UHC-LC/IVB/IVR/dtp_lmic)

The Initiative for Vaccine Research Team at WHO will respond in writing (via email only) to any request for clarification of the RFP that it receives by the deadline indicated above. A consolidated document of WHO's responses to all questions (including an explanation of the query but without identifying the source of enquiry) will be sent to all prospective bidders who have received the RFP. Questions are to be submitted following the format of the form "Questions from Bidders", attached hereeto as Annex 4.

There shall be no individual presentation by or meeting with bidders until after the closing date for submission of proposals. From the date of issue of this RFP to the final selection, contact with WHO officials concerning the RFP process shall not be permitted, other than through the submission of queries and/or through a possible presentation or meeting called for by WHO, in accordance with the terms of this RFP.

4.7 Submission of Proposals

The bidder shall submit the complete proposal to WHO no later than 14/02/2020 at 18:00 hours Geneva time (“the Closing Date for Submission of Proposals”), as follows:

☒ Option 1: by E-mail at the following address: mafungan@who.int

☐ Option 2: send [number] hard copies, labelled "Master Copy" and "Copy" and [number] USB key(s) to the following address:
Office [Office Number]
Bid Ref: UHC-LC/IVB/IVR/dtp_lmic
Attn: [Name]
World Health Organization
[Location]

The bidder must ensure that the content of all copies is identical. If at any time a difference is discovered between any copies of the proposal then the "Master Copy" will prevail as the official copy.
Each proposal should be prepared in two distinct parts: the technical proposal and the financial offer. Each proposal must include the signed Proposal Completeness Form (attached hereto as Annex 3) and supporting documents, as well as the signed Acceptance Form (attached hereto as Annex 5).

Each proposal shall be marked Bid Ref: **UHC-LC/IVB/IVR/dtp_imic** and be signed by a person or persons duly authorized to represent the bidder, submit a proposal and bind the bidder to the terms of the RFP.

A proposal shall contain no interlineations, erasures, or overwriting except, as necessary to correct errors made by the bidder, in which case such corrections shall be initialled by the person or persons signing the proposal.

It shall be the Bidder’s responsibility to obtain a confirmation of receipt by WHO of the signed Acknowledgement form (see section “Intention to Bid” 4.24.2 above) and the proposal, marking in particular the Bid Reference number and the date and time of receipt by WHO.

WHO may, at its own discretion, extend the closing date for the submission of proposals by notifying all bidders thereof in writing.

Any proposal received by WHO after the closing date for submission of proposals will be rejected.

**WHO may, at its discretion, reject late bids. Bidders are therefore advised to ensure that they have taken all steps to submit their proposals in advance of the above closing date and time.**

### 4.8 Period of Validity of Proposals

The offer outlined in the proposal must be valid for a minimum period of 180 calendar days after the closing date for submission of proposals. A proposal valid for a shorter period may be rejected by WHO. In exceptional circumstances, WHO may solicit the bidder’s consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. Any bidder granting such an extension will not, however, be permitted to otherwise modify its proposal.

### 4.9 Modification and Withdrawal of Proposals

The bidder may withdraw its proposal any time after the proposal’s submission and before the closing date for submission of proposals, provided that written notice of the withdrawal is received by WHO via email or mail as provided in section 4.7 above, prior to the Closing Date for Submission of Proposals.

No proposal may be modified after the closing date for submission of proposals, unless WHO has issued an amendment to the RFP allowing such modifications (see section 4.11 “Amendment of the RFP”).

No proposal may be withdrawn in the interval between the closing date and the expiration of the period of proposal validity specified by the bidder in the proposal in accordance with section 4.8 “Period of Validity of Proposals”.

### 4.10 Receipt of Proposals from Non-invitees

WHO may, at its own discretion, if it considers this necessary and in the interest of the Organization, extend the RFP to bidders that were not included in the original invitation list.

### 4.11 Amendment of the RFP

Doc. Ref: RFP_MediumValue_V.02 2018-0419

UHC-LC/IVB/IVR/dtp_imic
WHO may, at any time before the closing date, for any reason, whether on its own initiative or in response to a clarification requested by a (prospective) bidder, modify the RFP by written amendment. Amendments could, inter alia, include modification of the project scope or requirements, the project timeline expectations and/or extension of the closing date for submission of proposals.

All prospective bidders that have received the RFP will be notified in writing of all amendments to the RFP and will, where applicable, be invited to amend their proposal accordingly.

4.12 Proposal Structure

The contents of the bidder's proposal should be concisely presented and structured in the following order to include, but not necessarily be limited to, the information listed in sections 4.12.1 to 0.

Any information which the bidder considers confidential, should be clearly marked confidential.

4.12.1 Acceptance Form

The bidder's proposal must be accompanied by the Acceptance Form (see Annex 5, attached) signed by a duly authorized representative of the bidder and stating:

- That the bidder undertakes on its own behalf and on behalf of its possible partners and contractors to perform the work in accordance with the terms of the RFP;
- The total cost of the proposal, indicating the United Nations convertible currency used\(^1\) (preferably US Dollars);
- The number of days the proposal is valid (from the date of the form) in accordance with section 4.8 “Period of Validity of Proposals”.

4.12.2 Executive Summary

The bidder's proposal must be accompanied by an Executive Summary introducing the proposed solution and approach / methodology.

4.12.3 Information about Bidders

Bidders should include the following information in their bids.

<table>
<thead>
<tr>
<th>RFP Ref.</th>
<th>Information required</th>
</tr>
</thead>
<tbody>
<tr>
<td>If applicable</td>
<td>1. Company Information</td>
</tr>
<tr>
<td>3.2.1</td>
<td>1.1 Corporate information</td>
</tr>
<tr>
<td>3.2.1.1</td>
<td>Company mission statement (including profit or not for profit status)</td>
</tr>
<tr>
<td>3.2.1.2</td>
<td>Service commitment to customers and measurements used</td>
</tr>
<tr>
<td>3.2.2</td>
<td>1.1.3 Accreditations</td>
</tr>
<tr>
<td>3.2.2.4</td>
<td>Organization structure</td>
</tr>
<tr>
<td>3.2.2.5</td>
<td>Geographical presence</td>
</tr>
<tr>
<td>3.2.2.6</td>
<td>Declared financial statements for the past (3) three years(^2)</td>
</tr>
<tr>
<td>3.2.2</td>
<td>1.2 Legal Information</td>
</tr>
<tr>
<td>3.2.2.1</td>
<td>History of Bankruptcy</td>
</tr>
<tr>
<td>3.2.2.2</td>
<td>Pending major lawsuits and litigations in excess of USD 100,000 at risk</td>
</tr>
<tr>
<td>3.2.2.3</td>
<td>Pending Criminal/Civil lawsuits</td>
</tr>
</tbody>
</table>

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\(^1\) [https://treasury.un.org/operationalrates/default.php](https://treasury.un.org/operationalrates/default.php)

\(^2\) For companies in existence less than two years, please provide the available audited financial statements.
3.2.3 2. Experience and Reference Contact Information

2.1 Relevant Contractual relationships

2.1.1 Relevant Contractual projects (with other UN agencies or Contractors)

2.2 Relevant Project Names (list and provide detailed examples of relevant experience gained within the past five years of the issuance of this RFP that demonstrate the Contractor’s ability to satisfactorily perform the work in accordance with the requirements of this RFP).

2.2.1 Project Description

2.2.2 Status (under development / implemented)

2.2.3 Reason for relevance (provide reason why this project can be seen as relevant to this project)

2.2.4 Roles and responsibilities (list and clearly identify the roles and responsibilities for each participating organization)

2.2.4.1 Client’s Role and Responsibility: Inputs from beneficiary

2.2.4.2 Contractor’s Role and Responsibility: role in project

2.2.4.3 Third party Contractors’ Role and Responsibility: previously specified 3rd party role in project

2.2.5 Team Members (indicate relevant members of the team that will also be used for this project)

3.2.4 3. Staffing information

3.1 Number and Geographical distribution of staff

3.1.1 Staff turnover rate for the past three years

3.2 Staff dedicated to the Project

3.2.1 Name and CV of each team member

3.2.2 Structure of the team, and role of each member in the project

3.2.3 Time dedicated to the project

3.2.3 Contingency plans in the event of a vacancy

4.5 4. Proposed sub-contractor arrangements including sub-contractor information (as above for each sub-contractor)

4.12.4 Proposed Solution

Briefly describe the proposed activities to be undertaken to meet all the deliverables listed in section 3.3.1 and key requirements in section 3.3.4.

4.12.5 Approach/Methodology

Proposed methodological approach to model design, to include at least the following

☐ If a dynamic or static approach (for each disease)

☐ Types of input data that the model will require

☐ How effects of the three diseases will be combined

☐ How the disease and economic components will be integrated

☐ How different birth cohorts and vaccine doses will be modelled

☐ Approach to model validation

☐ Software

☐ Type of user interface

Indication of anticipated challenges with the work and proposed solutions to each

Two examples of similar work (e.g. publications, conference presentations, blogs, white papers etc).
4.12.6 Proposed Time line

The proposed Timeline of the project should be presented either in MS Project MPP, XLS or PDF format and include all deliverables listed in section 3.3.1 and key requirements in section 3.3.4.

4.12.7 Financial Proposal

Financial proposal should include subtotals for major cost categories of personnel salaries and benefits, consultants, other direct costs, and any indirect costs as well as a lump sum payment to complete the work outlined in section 4.12.5 and achieve the deliverables outlined in section 3.3.4.

4.13 Conduct and Exclusion of Bidders

All bidders must adhere to the UN Supplier Code of Conduct, which is available on the WHO procurement website at the following link:  http://www.who.int/about/finances-accountability/procurement/en/

In addition, bidders must submit a signed Self Declaration form, attached hereto as Annex 6.

Bidders will be excluded if:

- they are bankrupt or being wound up, are having their affairs administered by the courts, have entered into an arrangement with creditors, have suspended business activities, are the subject of proceedings concerning those matters, or are in any analogous situation arising from a similar procedure provided for in national legislation or regulations;

- they or persons having powers of representation, decision making or control over them have been the subject of a final judgment or of a final administrative decision for fraud, corruption, involvement in a criminal organization, money laundering, terrorist-related offences, child labour or trafficking in human beings;

- they or persons having powers of representation, decision making or control over them have been the subject of a final judgment or of a final administrative decision for financial irregularity(ies);

- it becomes apparent to WHO that they are guilty of misrepresentation in supplying, or if they fail to supply, the information required under this RFP and/or as part of the bid evaluation process;

- they have a conflict of interest, as determined by WHO in its sole discretion; or

- they are, or have found to be, in violation of any standard of conduct as described in the WHO Policies, referred to in section 7.33 of this RFP.

WHO may decide to exclude bidders for other reasons.
5. EVALUATION OF PROPOSALS

After the closing date for submission of proposals, WHO will open the proposals received in a timely manner.

There will be no public bid opening.

5.1 Preliminary Examination of Proposals

WHO will examine the proposals to determine whether they are complete, whether any computational errors have been made, whether the documents have been properly signed, and whether the proposals are generally in order. Proposals which are not in order as aforesaid may be rejected.

Please note that WHO is not bound to select any bidder and may reject all proposals. Furthermore, since a contract would be awarded in respect of the proposal which is considered most responsive to the needs of the project concerned, due consideration being given to WHO’s general principles, including economy and efficiency, WHO does not bind itself in any way to select the bidder offering the lowest price.

5.2 Clarification of Proposals

WHO may, at its discretion, ask any bidder for clarification of any part of its proposal. The request for clarification and the response shall be in writing. No change in price or substance of the proposal shall be sought, offered or permitted during this exchange.

5.3 Evaluation of Proposals

The following procedure will be utilized in evaluating the proposals, with technical evaluation of the proposal being completed prior to any focus on or comparison of price.

The evaluation panel will evaluate the technical merits of all the proposals which have passed the Preliminary Examination of proposals based on the following weighting:

<table>
<thead>
<tr>
<th>Weighting</th>
<th>Percentage of Total Evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical Weighting</td>
<td>70%</td>
</tr>
<tr>
<td>Financial Weighting</td>
<td>30%</td>
</tr>
</tbody>
</table>

The technical evaluation of the proposals will include:

- the extent to which WHO's requirements and expectations have been satisfactorily addressed;
- the quality of the overall proposal;
- the appropriateness of the proposed approach;
- the quality of the technical solution proposed;
- the manner in which it is proposed to manage and staff the project;
- the experience of the firm in carrying out related projects;
- the qualifications and competence of the personnel proposed for the assignment; and
- the proposed timeframe for the project.

The number of points which can be obtained for each evaluation criterion is specified below and indicates the relative significance or weight of the item in the overall evaluation process.

A minimum of [70] points is required to pass the technical evaluation.
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Addressing of WHO’s requirements and expectations</td>
<td>5</td>
</tr>
<tr>
<td>Quality of the overall proposal</td>
<td>5</td>
</tr>
<tr>
<td>Appropriateness of the proposed approach</td>
<td>20</td>
</tr>
<tr>
<td>Quality of the technical solution proposed</td>
<td>30</td>
</tr>
<tr>
<td>Managing and staffing of the project</td>
<td>5</td>
</tr>
<tr>
<td>Experience of the firm in carrying out related project</td>
<td>10</td>
</tr>
<tr>
<td>Qualifications and competence of the personnel proposed for the assignment</td>
<td>15</td>
</tr>
<tr>
<td>Proposed timeframe for the project</td>
<td>10</td>
</tr>
</tbody>
</table>

During the financial evaluation, the price proposal of all bidders who have passed the technical evaluation will be compared.

### 5.4 Bidders’ Presentations

WHO may, during the evaluation period, at its discretion, invite selected bidders to supply additional information on the contents of their proposal (at such bidders' own cost). Such bidders will be asked to give a presentation of their proposal (possibly with an emphasis on a topic of WHO's choice) followed by a question and answer session. If required, the presentation will be held at WHO or by tele/videoconference.

NOTE: Other presentations and any other individual contact between WHO and bidders is expressly prohibited both before and after the closing date for submission of proposals.
6. AWARD OF CONTRACT

6.1 Award Criteria, Award of Contract

WHO reserves the right to

a. Award the contract to a bidder of its choice, even if its bid is not the lowest;
b. Award separate contracts for parts of the work, components or items, to one or more bidders of its choice, even if their bids are not the lowest;
c. Accept or reject any proposal, and to annul the solicitation process and reject all proposals at any time prior to award of contract, without thereby incurring any liability to the affected bidder or bidders and without any obligation to inform the affected bidder or bidders of the grounds for WHO's action;
d. Award the contract on the basis of the Organization's particular objectives to a bidder whose proposal is considered to be the most responsive to the needs of the Organization and the activity concerned;
e. Not award any contract at all.

WHO has the right to eliminate bids for technical or other reasons throughout the evaluation/selection process. WHO shall not in any way be obliged to reveal, or discuss with any bidder, how a proposal was assessed, or to provide any other information relating to the evaluation/selection process or to state the reasons for elimination to any bidder.

NOTE: WHO is acting in good faith by issuing this RFP. However, this document does not oblige WHO to contract for the performance of any work, nor for the supply of any products or services.

6.2 WHO's Right to modify Scope or Requirements during the Evaluation/Selection Process

At any time during the evaluation/selection process, WHO reserves the right to modify the scope of the work, services and/or goods called for under this RFP. WHO shall notify the change to only those bidders who have not been officially eliminated due to technical reasons at that point in time.

6.3 WHO's Right to Extend/Revise Scope or Requirements at Time of Award

WHO reserves the right at the time of award of contract to extend, reduce or otherwise revise the scope of the work, services and/or goods called for under this RFP without any change in the base price or other terms and conditions offered by the selected bidder.

6.4 WHO's Right to enter into Negotiations

WHO also reserves the right to enter into negotiations with one or more bidders of its choice, including but not limited to negotiation of the terms of the proposal(s), the price quoted in such proposal(s) and/or the deletion of certain parts of the work, components or items called for under this RFP.

6.5 Signing of the Contract

Within 30 days of receipt of the contract, the successful bidder shall sign and date the contract and return it to WHO according to the instructions provided at that time. If the bidder does not accept the contract terms without changes, then WHO has the right not to proceed with the selected bidder and instead contract with another bidder of its choice.
6.6 Publication of Contract

WHO reserves the right, subject to considerations of confidentiality to acknowledge the existence of the Contract to the public and publish and/or otherwise publicly disclose the Contractor’s name and country of incorporation, general information with respect to the work described herein and the Contract value. Such disclosure will be made in accordance with WHO’s Information Disclosure Policy and shall be consistent with the terms of the Contract.
7. GENERAL AND CONTRACTUAL CONDITIONS

The contract between WHO and the selected bidder ("the Contract") will, unless otherwise explicitly agreed in writing, include the provisions as set forth in this section, and will otherwise inter alia address the following issues:

- responsibilities of the selected bidder(s) ("the Contractor(s)") and WHO;
- clear deliverables, timelines and acceptance procedures;
- payment terms tied to the satisfactory performance and completion of the work;
- notices.

The prices payable by WHO for the work to be performed under the Contract shall be fixed for the duration of the Contract and shall be in a UN convertible currency (preferably US Dollars), based on the UN exchange rate of the date of invoice. The total amount payable by WHO under the Contract may be either a lump sum or a maximum amount. If the option for payment of a lump sum applies, that lump sum is payable in the manner provided, subject to satisfactory performance of the work. If the option for payment of a maximum amount applies:

- the Contract shall include a detailed budget;
- the Contractor shall be held to submit a financial statement together with each invoice;
- any advance payments by WHO shall be used by the Contractor exclusively for the work in accordance with the budget and any unspent balance shall be refunded to WHO;
- payment by WHO shall be subject to satisfactory performance and the acceptance of the Contractor's financial statements;
- to the extent the Contractor is required to purchase any goods and/or services in connection with its performance of the Contract, the Contractor shall ensure that such goods and/or services shall be procured in accordance with the principle of best value for money. "Best value for money" means the responsive offer that is the best combination of technical specifications, quality and price; and consistent with section 7.3,(Audit and Access), all financial reports shall be subject to audit by or on behalf of WHO, including examination of supporting documentation and relevant accounting entries in the Contractor's books. In order to facilitate financial reporting and audit, the Contractor shall keep systematic and accurate accounts and records in respect of the work.

Unless otherwise specified in the Contract, WHO shall have no obligation to purchase any minimum quantities of goods or services from the Contractor, and WHO shall have no limitation on its right to obtain goods or services of the same kind, quality and quantity as described in the Contract, from any other sources at any time.

Unless otherwise specified in the Contract, in the event that the Contract is a Long-Term Agreement ("LTA"), the Contractor shall offer the same prices and terms as those agreed with WHO under the Contract to other interested United Nations system agencies and to organizations eligible to purchase through WHO, it being understood that each such agency and organization will be responsible for independently entering into and administering its own contract with the Contractor. The Contractor shall take into account the additional quantities of services purchased by all United Nations system agencies and other organizations as aforesaid to further reduce the prices for WHO and such other agencies and organizations.

7.1 Conditions of Contract

Any and all of the Contractor's (general and/or special) conditions of contract are hereby explicitly excluded from the Contract, i.e., regardless of whether such conditions are included in the Contractor's offer, or printed or referred to on the Contractor's letterhead, invoices and/or other material, documentation or communications.
7.2 Responsibility

The Contractor will be responsible to ensure that the work performed under the Contract meets the agreed specifications and is completed within the time prescribed.

7.3 Audit and Access

WHO may request a financial and operational review or audit of the work performed under the Contract, to be conducted by WHO and/or parties authorized by WHO, and the Contractor undertakes to facilitate such review or audit. This review or audit may be carried out at any time during the implementation of the work performed under the Contract, or within five years of completion of the work. In order to facilitate such financial and operational review or audit, the Contractor shall keep accurate and systematic accounts and records in respect of the work performed under the Contract.

The Contractor shall make available, without restriction, to WHO and/or parties authorized by WHO:

- the Contractor's books, records and systems (including all relevant financial and operational information) relating to the Contract; and
- reasonable access to the Contractor's premises and personnel.

The Contractor shall provide satisfactory explanations to all queries arising in connection with the aforementioned audit and access rights.

WHO may request the Contractor to provide complementary information about the work performed under the Contract that is reasonably available, including the findings and results of an audit (internal or external) conducted by the Contractor and related to the work performed under the Contract.

7.4 Source of Instructions

The Contractor shall neither seek nor accept instructions from any authority external to WHO in connection with the performance of the work under the Contract. The Contractor shall refrain from any action which may adversely affect WHO and shall fulfil its commitments with the fullest regard to the interests of WHO.

7.5 Warranties

The Contractor warrants and represents to WHO as follows:

1) The deliverables shall meet the specifications called for in the Contract and shall be fully adequate to meet their intended purpose. The Contractor furthermore warrants that the deliverables shall be error-free. The Contractor shall correct any errors in the deliverables, free of charge, within fifteen days after their notification to the Contractor, during a period of at least one year after completion of the work. It is agreed, however, that errors and other defects which have been caused by modifications to the deliverables made by WHO without agreement of the Contractor are not covered by this paragraph.

2) The deliverables shall, to the extent they are not original, only be derived from, or incorporate, material over which the Contractor has the full legal right and authority to use it for the proper implementation of the Contract. The Contractor shall obtain all the necessary licenses for all non-original material incorporated in the deliverables (including, but not limited to, licenses for WHO to use any underlying software, application, and operating deliverables included in the deliverables or on which it is based so as to permit WHO to fully exercise its rights in the deliverables without any obligation on WHO's part to make any additional payments whatsoever to any party.

3) The deliverables shall not violate any copyright, patent right, or other proprietary right of any third
party and shall be delivered to WHO free and clear of any and all liens, claims, charges, security interests and any other encumbrances of any nature whatsoever.

4) The Contractor, its employees and any other persons and entities used by the Contractor shall not violate any intellectual property rights, confidentiality, right of privacy or other right of any person or entity whomsoever.

5) Except as otherwise explicitly provided in the Contract, the Contractor shall at all times provide all the necessary on-site and off-site resources to meet its obligations hereunder. The Contractor shall only use highly qualified staff, acceptable to WHO, to perform its obligations hereunder.

6) The Contractor shall take full and sole responsibility for the payment of all wages, benefits and monies due to all persons and entities used by it in connection with the implementation and execution of the Contract, including, but not limited to, the Contractor’s employees, permitted subcontractors and suppliers.

Contractor furthermore warrants and represent that the information provided by it to WHO in response to the RFP and during the bid evaluation process is accurate and complete. Contractor understands that in the event Contractor has failed to disclose any relevant information which may have impacted WHO's decision to award the Contract to Contractor, or has provided false information, WHO will be entitled to rescind the contract with immediate effect, in addition to any other remedies which WHO may have by contract or by law.

7.6 Legal Status

The Contractor shall be considered as having the legal status of an independent contractor vis-à-vis WHO, and nothing contained in or relating to the Contract shall be construed as establishing or creating an employer/employee relationship between WHO, on the one hand, and the Contractor or any person used by the Contractor in the performance of the work, on the other hand.

Thus the Contractor shall be solely responsible for the manner in which the work is carried out. WHO shall not be responsible for any loss, accident, damage or injury suffered by the Contractor or persons or entities claiming under the Contractor, arising during or as a result of the implementation or execution of the Contract, including travel, whether sustained on WHO premises or not.

The Contractor shall obtain adequate insurance to cover such loss, accident, injury and damage, before commencing work on the Contract. The Contractor shall be solely responsible in this regard and shall handle any claims for such loss, accident, damage or injury.

7.7 Relation Between the Parties

Nothing in the Contract shall be deemed to constitute a partnership between the Parties or to constitute either Party as the agent of the other.

7.8 No Waiver

The waiver by either Party of any provision or breach of the Contract shall not prevent subsequent enforcement of such provision or excuse further breaches.

7.9 Liability
The Contractor hereby indemnifies and holds WHO harmless from and against the full amount of any and all claims and liabilities, including legal fees and costs, which are or may be made, filed or assessed against WHO at any time and based on, or arising out of, breach by the Contractor of any of its representations or warranties under the Contract, regardless of whether such representations and warranties are explicitly incorporated here in or are referred to in any attached Appendices.

7.10 Assignment

The Contractor shall not assign, transfer, pledge or make any other disposition of the Contract or any part thereof, or any of the Contractor's rights, claims or obligations under the Contract except with the prior written consent of WHO.

7.11 Indemnification

The Contractor shall indemnify and hold WHO harmless, from and against the full amount of any and all claims and liabilities, including legal fees and costs, which are or may be made, filed or assessed against WHO at any time and based on, or arising out of, the acts or omissions of the Contractor, or the Contractor's employees, officers, agents, partners or sub-contractors, in the performance of the Contract. This provision shall extend, inter alia, to claims and liabilities in the nature of workmen's compensation, product liability and liability arising out of the use of patented inventions or devices, copyrighted material or other intellectual property by the Contractor, its employees, officers, agents, servants, partners or sub-contractors.

7.12 Contractor's Responsibility for Employees

The Contractor shall be responsible for the professional and technical competence of its employees and will select, for work under the Contract, reliable individuals who will perform effectively in the implementation of the Contract, respect the local laws and customs, and conform to a high standard of moral and ethical conduct.

7.13 Subcontracting

Any intention to subcontract aspects of the Contract must be specified in detail in the proposal submitted. Information concerning the subcontractor, including the qualifications of the staff proposed for use must be covered with same degree of thoroughness as for the prime contractor. No subcontracting will be permitted under the Contract unless it is proposed in the initial submission or formally agreed to by WHO at a later time. In any event, the total responsibility for the Contract remains with the Contractor.

The Contractor shall be responsible for ensuring that any and all subcontracts shall be fully consistent with the Contract, and shall not in any way prejudice the implementation of any of its provisions.

7.14 Place of Performance

The place of performance of the work under the Contract shall be as mentioned in section 0 above.
All communications relating to the Contract and/or the performance of the work thereunder shall be in English.

7.16 Confidentiality

1) Except as explicitly provided in the Contract, the Contractor shall keep confidential all information which comes to its knowledge during, or as a result of, the implementation and execution of the Contract. Accordingly, the Contractor shall not use or disclose such information for any purpose other than the performance of its obligations under the Contract. The Contractor shall ensure that each of its employees and/or other persons and entities having access to such information shall be made aware of, and be bound by, the obligations of the Contractor under this paragraph. However, there shall be no obligation of confidentiality or restriction on use, where; (i) the information is publicly available, or becomes publicly available, otherwise than by any action or omission of the Contractor, or (ii) the information was already known to the Contractor (as evidenced by its written records) prior to becoming known to the Contractor in the implementation and execution of the Contract; or (iii) the information was received by the Contractor from a third party not in breach of an obligation of confidentiality.

2) The Contractor, its employees and any other persons and entities used by the Contractor shall furthermore not copy and/or otherwise infringe on copyright of any document (whether machine-readable or not) to which the Contractor, its employees and any other persons and entities used by the Contractor have access in the performance of the Contract.

3) The Contractor may not communicate at any time to any other person, Government or authority external to WHO, any information known to it by reason of its association with WHO which has not been made public except with the authorization of WHO; nor shall the Contractor at any time use such information to private advantage.

7.17 Title Rights

1) All rights pertaining to any and all deliverables under the Contract and the original work product leading thereto, as well as the rights in any non-original material incorporated therein as referred to in section 7.5 2) above, shall be exclusively vested in WHO.

2) WHO reserves the right to revise the work, to use the work in a different way from that originally envisaged or to not use the work at all.

3) At WHO's request, the Contractor shall take all necessary steps, execute all necessary documents and generally assist WHO in securing such rights in compliance with the requirements of applicable law.

7.18 Termination and Cancellation

WHO shall have the right to cancel the Contract (in addition to other rights, such as the right to claim damages):

1) In the event the Contractor fails to begin work on the date agreed, or to implement the work in accordance with the terms of the Contract; or

2) In the event the progress of work is such that it becomes obvious that the obligations undertaken by the Contractor and, in particular, the time for fulfilment of such obligations, will not be respected.

In addition, WHO shall be entitled to terminate the Contract (or part thereof), in writing:

- At will with the provision of thirty (30) days prior notice in writing; and

- With immediate effect (in addition to other rights, such as the right to claim damages), if, other than as provided above, the Contractor is:
a. In breach of any of its material obligations under the Contract and fails to correct such breach within a period of thirty (30) days after having received a written notification to that effect from WHO; or
b. Adjudicated bankrupt or formally seeks relief of its financial obligations.

7.19 Force Majeure

No party to the Contract shall be responsible for a delay caused by force majeure, that is, a delay caused by reasons outside such party's reasonable control it being agreed, however, that WHO shall be entitled to terminate the Contract (or any part of the Contract) forthwith if the implementation of the work is delayed or prevented by any such reason for an aggregate of thirty (30) days. Such termination shall be subject to payment of an equitable part of the Contract sum and/or other reasonable charges. In the event of such termination, the Contractor shall, in accordance with the ownership rights referred to in section 7.17 (Title Rights), deliver to WHO all work products and other materials so far produced.

In the event of and as soon as possible after the occurrence of any cause constituting force majeure, the Contractor shall give notice and full particulars in writing to WHO, of such occurrence or change if the Contractor is thereby rendered unable, wholly or in part, to perform its obligations and meet its responsibilities under the Contract. The Contractor shall also notify WHO of any other changes in conditions or the occurrence of any event which interferes or threatens to interfere with its performance of the Contract. The notice shall include steps proposed by the Contractor to be taken including any reasonable alternative means for performance that is not prevented by force majeure. On receipt of the notice required under this section, WHO shall take such action as it, in its sole discretion, considers to be appropriate or necessary in the circumstances, including the granting to the Contractor of a reasonable extension of time in which to perform its obligations under the Contract.

7.20 Surviving Provisions

Those rights and obligations of the Parties as set forth in sections 7 and 8 that are intended by their nature to survive the expiration or earlier termination of the Contract shall survive indefinitely. This includes, but is expressly not limited to, any provisions relating to WHO’s right to financial and operational audit, conditions of contract, warranties, legal status and relationship between the parties, breach, liability, indemnification, subcontracting, confidentiality, title rights, use of the WHO name and emblem, successors and assignees, insurance and liabilities to third parties, settlement of disputes, observance of laws, privileges and immunities, no terrorism or corruption, foreign nationals and compliance with WHO policies.

7.21 Use of WHO name and emblem

Without WHO’s prior written approval, the Contractor shall not, in any statement or material of an advertising or promotional nature, refer to the Contract or the Contractor’s relationship with WHO, or otherwise use the name (or any abbreviation thereof) and/or emblem of the World Health Organization.

7.22 Publication of Contract

Subject to considerations of confidentiality, WHO may acknowledge the existence of the Contract to the public and publish and/or otherwise publicly disclose the Contractor’s name and country of incorporation, general information with respect to the work described herein and the Contract value. Such disclosure will be made in accordance with WHO’s Information Disclosure Policy and shall be consistent with the terms of the Contract.

7.23 Successors and Assignees
The Contract shall be binding upon the successors and assignees of the Contractor and the Contract shall be deemed to include the Contractor’s successors and assignees, provided, however, that nothing in the Contract shall permit any assignment without the prior written approval of WHO.

7.24 Payment

Payment will be made against presentation of an invoice in a UN convertible currency (preferably US Dollars) in accordance with the payment schedule contained in the Contract, subject to satisfactory performance of the work. The price shall reflect any tax exemption to which WHO may be entitled by reason of the immunity it enjoys. WHO is, as a general rule, exempt from all direct taxes, custom duties and the like, and the Contractor will consult with WHO so as to avoid the imposition of such charges with respect to this contract and the goods supplied and/or services rendered hereunder. As regards excise duties and other taxes imposed on the sale of goods or services (e.g. VAT), the Contractor agrees to verify in consultation with WHO whether in the country where the VAT would be payable, WHO is exempt from such VAT at the source, or entitled to claim reimbursement thereof. If WHO is exempt from VAT, this shall be indicated on the invoice, whereas if WHO can claim reimbursement thereof, the Contractor agrees to list such charges on its invoices as a separate item and, to the extent required, cooperate with WHO to enable reimbursement thereof.

7.25 Title to Equipment

Title to any equipment and supplies that may be furnished by WHO shall remain with WHO and any such equipment shall be returned to WHO at the conclusion of the Contract or when no longer needed by the Contractor. Such equipment, when returned to WHO, shall be in the same condition as when delivered to the Contractor, subject to normal wear and tear. The Contractor shall be liable to compensate WHO for equipment determined to be damaged or degraded beyond normal wear and tear.

7.26 Insurance and Liabilities to Third Parties

The Contractor shall provide and thereafter maintain:

(i) insurance against all risks in respect of its property and any equipment used for the execution of the Contract;

(ii) all appropriate workmen’s compensation insurance, or its equivalent, with respect to its employees to cover claims for personal injury or death in connection with the Contract; and

(iii) liability insurance in an adequate amount to cover third party claims for death or bodily injury, or loss of or damage to property, arising from or in connection with the performance of the work under the Contract or the operation of any vehicles, boats, airplanes or other equipment owned or leased by the Contractor or its agents, servants, employees, partners or sub-contractors performing work in connection with the Contract.

Except for the workmen’s compensation insurance, the insurance policies under this section shall:

a) Name WHO as additional insured;

b) Include a waiver of subrogation to the insurance carrier of the Contractor’s rights against WHO;

c) Provide that WHO shall receive written notice from the Contractor’s insurance carrier not less than thirty (30) days prior to any cancellation or material change of coverage.
The Contractor shall, upon request, provide WHO with satisfactory evidence of the insurance required under this section.

7.27 Settlement of Disputes

Any matter relating to the interpretation of the Contract which is not covered by its terms shall be resolved by reference to Swiss law. Any dispute relating to the interpretation or application of the Contract shall, unless amicably settled, be subject to conciliation. In the event of failure of the latter, the dispute shall be settled by arbitration. The arbitration shall be conducted in accordance with the modalities to be agreed upon by the parties or, in the absence of agreement, with the rules of arbitration of the International Chamber of Commerce. The parties shall accept the arbitral award as final.

7.28 Authority to Modify

No modification or change of the Contract, no waiver of any of its provisions or any additional contractual relationship of any kind shall be valid and enforceable unless signed by a duly authorized representative of both parties.

7.29 Privileges and Immunities

Nothing in or relating to the Contract shall be construed as a waiver of any of the privileges and immunities enjoyed by WHO under national or international law, and/or as submitting WHO to any national court jurisdiction.

7.30 Anti-Terrorism and UN Sanctions; Fraud and Corruption

The Contractor warrants for the entire duration of the Contract that:

(i) it is not and will not be involved in, or associated with, any person or entity associated with terrorism, as designated by any UN Security Council sanctions regime, that it will not make any payment or provide any other support to any such person or entity and that it will not enter into any employment or subcontracting relationship with any such person or entity;

(ii) it shall not engage in any illegal, corrupt, fraudulent, collusive or coercive practices (including bribery, theft and other misuse of funds) in connection with the execution of the Contract; and

(iii) the Contractor shall take all necessary precautions to prevent the financing of terrorism and/or any illegal corrupt, fraudulent, collusive or coercive practices (including bribery, theft and other misuse of funds) in connection with the execution of the Contract.

Any payments used by the Contractor for the promotion of any terrorist activity or any illegal, corrupt, fraudulent, collusive or coercive practice shall be repaid to WHO without delay.

7.31 Ethical Behaviour

WHO, the Contractor and each of the Contractor’s partners, subcontractors and their employees and agents shall adhere to the highest ethical standards in the performance of the Contract. In this regard, the Contractor shall also ensure that neither the Contractor nor its partners, subcontractors, agents or
employees will engage in activities involving child labour, trafficking in arms, promotion of tobacco or other unhealthy behaviour, or sexual exploitation and abuse.

7.32 Officials not to Benefit

The Contractor warrants that no official of WHO has received or will be offered by the Contractor any direct or indirect benefit arising from the Contract or the award thereof.

7.33 Compliance with WHO Codes and Policies

By entering into the Contract, the Contractor acknowledges that it has read, and hereby accepts and agrees to comply with, the WHO Policies (as defined below).

In connection with the foregoing, the Contractor shall take appropriate measures to prevent and respond to any violations of the standards of conduct, as described in the WHO Policies, by its employees and any other persons engaged by the Contractor to perform any services under the Contract.

Without limiting the foregoing, the Contractor shall promptly report to WHO, in accordance with the terms of the applicable WHO Policies, any actual or suspected violations of any WHO Policies of which the Contractor becomes aware.

For purposes of the Contract, the term “WHO Policies” means collectively: (i) the WHO Code of Ethics and Professional Conduct; (ii) the WHO Policy on Sexual Exploitation and Abuse Prevention and Response; (iii) the WHO Code of Conduct for responsible Research; (iv) the WHO Policy on Whistleblowing and Protection Against Retaliation; and (v) the UN Supplier Code of Conduct, in each case, as amended from time to time and which are publicly available on the WHO website at the following links: http://www.who.int/about/ethics/en/ for the other WHO Policies.

7.34 Zero tolerance for sexual exploitation and abuse

WHO has zero tolerance towards sexual exploitation and abuse. In this regard, and without limiting any other provisions contained herein:

- each legal entity Contractor warrants that it will: (i) take all reasonable and appropriate measures to prevent sexual exploitation or abuse as described in the WHO Policy on Sexual Exploitation and Abuse Prevention and Response by any of its employees and any other persons engaged by it to perform any services under the Contract; and (ii) promptly report to WHO and respond to, in accordance with the terms of the Policy, any actual or suspected violations of the Policy of which the contractor becomes aware; and

- each individual Contractor warrants that he/she will (i) not engage in any conduct that would constitute sexual exploitation or abuse as described in the WHO Policy on Sexual Exploitation and Abuse Prevention and Response; and (ii) promptly report to WHO, in accordance with the terms of the Policy, any actual or suspected violations of the Policy of which the Contractor becomes aware.

7.35 Tobacco/Arms Related Disclosure Statement

The Contractor may be required to disclose relationships it may have with the tobacco and/or arms industry through completion of the WHO Tobacco/Arms Disclosure Statement. In the event WHO requires completion of this Statement, the Contractor undertakes not to permit work on the Contract to commence,
until WHO has assessed the disclosed information and confirmed to the Contractor in writing that the work can commence.

7.36 Compliance with applicable laws, etc.

The Contractor shall comply with all laws, ordinances, rules, and regulations bearing upon the performance of its obligations under the terms of the Contract. Without limiting the foregoing or any other provision of these General and Contractual Conditions, the Contractor shall at all times comply with and ensure that each of its partners, subcontractors and their employees and agents comply with, any applicable laws and regulations, and with all WHO policies and reasonable written directions and procedures from WHO relating to: (i) occupational health and safety, (ii) security and administrative requirements, including, but not limited to computer network security procedures, (iii) sexual harassment, (iv) privacy, (v) general business conduct and disclosure, (vi) conflicts of interest and (vii) business working hours and official holidays.

In the event that the Contractor becomes aware of any violation or potential violation by the Contractor, its partners, subcontractors or any of their employees or agents, of any laws, regulations, WHO policies or other reasonable written directions and procedures, the Contractor shall immediately notify WHO of such violation or potential violation. WHO, in its sole discretion, shall determine the course of action to remedy such violation or prevent such potential violation, in addition to any other remedy available to WHO under the Contract or otherwise.

7.37 Breach of Essential Terms

The Contractor acknowledges and agrees that each of the provisions of section 7.30 (Anti-Terrorism and UN Sanctions; Fraud and Corruption), section 7.31 (Ethical Behaviour), section 7.32 (Officials not to Benefit), section 7.33 (Compliance with WHO Codes and Policies), and section 7.36 (Zero tolerance for sexual exploitation and abuse), section 7.35 (Tobacco/Arms Related Disclosure Statement) and section 7.36(Compliance with applicable laws, etc.) hereof constitutes an essential term of the Contract, and that in case of breach of any of these provisions, WHO may, in its sole discretion, decide to:

(i) terminate the Contract, and/or any other contract concluded by WHO with the Contractor, immediately upon written notice to the Contractor, without any liability for termination charges or any other liability of any kind; and/or

(ii) exclude the Contractor from participating in any ongoing or future tenders and/or entering into any future contractual or collaborative relationships with WHO.

WHO shall be entitled to report any violation of such provisions to WHO’s governing bodies, other UN agencies, and/or donors.
8. PERSONNEL

8.1 Approval of Contractor Personnel

WHO reserves the right to approve any employee, subcontractor or agent furnished by the Contractor and Contractor’s consortium partners for the performance of the work under the Contract (hereinafter jointly referred to as "Contractor Personnel"). All Contractor Personnel must have appropriate qualifications, skills, and levels of experience and otherwise be adequately trained to perform the work. WHO reserves the right to undertake an interview process as part of the approval of Contractor Personnel.

The Contractor acknowledges that the qualifications, skills and experience of the Contractor Personnel proposed to be assigned to the project are material elements in WHO’s engaging the Contractor for the project. Therefore, in order to ensure timely and cohesive completion of the project, both parties intend that Personnel initially assigned to the project continue through to project completion. Once an individual has been approved and assigned to the project, such individual will not, in principle, thereafter be taken off the project by the Contractor, or reassigned by the Contractor to other duties. Circumstances may arise, however, which necessitate that Personnel be substituted in the course of the work, e.g. in the event of promotions, termination of employment, sickness, vacation or other similar circumstances, at which time a replacement with comparable qualifications, skills and experience may be assigned to the project, subject to approval of WHO.

WHO may refuse access to or require replacement of any Contractor Personnel if such individual renders, in the sole judgment of WHO, inadequate or unacceptable performance, or if for any other reason WHO finds that such individual does not meet his/her security or responsibility requirements. The Contractor shall replace such an individual within fifteen (15) business days of receipt of written notice from WHO. The replacement will have the required qualifications, skills and experience and will be billed at a rate that is equal to or less than the rate of the individual being replaced.

8.2 Project Managers

Each party shall appoint a qualified project manager ("Project Manager") who shall serve as such party’s primary liaison throughout the course of the project. The Project Manager shall be authorized by the respective party to answer all questions posed by the other party and convey all decisions made by such party during the course of the project and the other party shall be entitled to rely on such information as conveyed by the Project Manager.

The Project Managers shall meet on a monthly basis in order to review the status of the project and provide WHO with reports. Such reports shall include detailed time distribution information in the form requested by WHO and shall cover problems, meetings, progress and status against the implementation timetable.

8.3 Foreign Nationals

The Contractor shall verify that all Contractor Personnel is legally entitled to work in the country or countries where the work is to be carried out. WHO reserves the right to request the Contractor to provide WHO with adequate documentary evidence attesting this for each Contractor Personnel.

Each party hereby represents that it does not discriminate against individuals on the basis of race, gender, creed, national origin, citizenship.

8.4 Engagement of Third Parties and use of In-house Resources
The Contractor acknowledges that WHO may elect to engage third parties to participate in or oversee certain aspects of the project and that WHO may elect to use its in-house resources for the performance of certain aspects of the project. The Contractor shall at all times cooperate with and ensure that the Contractor and each of its partners, subcontractors and their employees and agents cooperate, in good faith, with such third parties and with any WHO in-house resources.
9. LIST OF ANNEXES & APPENDICES

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<tr>
<th>Annex 1</th>
<th>Acknowledgment Form</th>
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<td>Annex 2</td>
<td>Confidentiality Undertaking</td>
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<td>Annex 3</td>
<td>Proposal Completeness Form</td>
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<td>Annex 4</td>
<td>Questions from Bidders Template</td>
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<td>Annex 5</td>
<td>Acceptance Form</td>
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<td>Annex 6</td>
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Request for Proposals: **UHC-LC/IVB/IVR/dtp_lmic**

**Annex 1: Acknowledgement Form** (Ref. Paragraph 4.2)

Please check the appropriate box (see below) and email to mafungan@who.int this acknowledgement form immediately upon receipt to:

Name: [Neddy MAFUNGA], Title: [Assistant]
World Health Organization
20 Avenue Appia
1202 Geneva
Switzerland

Bid Ref: **UHC-LC/IVB/IVR/dtp_lmic**

☐ **Intention To Submit A Proposal**
We hereby acknowledge receipt of the RFP. We have perused the document and advise that we intend to submit a proposal **on or before 14/02/2020 at 18:00 hours Geneva time.**

☐ **Non-Intention To Submit A Proposal**
We hereby acknowledge receipt of the RFP. We have perused the document and advise that we do not intend to submit a proposal for the following reasons:

Insert reason here:

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Bidder’s Contact Information is as follows:

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Annex 2: Confidentiality Undertaking (Ref. Paragraph 4.6)

The World Health Organization (WHO), acting through its Department of Immunization, Vaccines & Biologicals (IVB, has access to certain information relating to vaccines which it considers to be proprietary to itself or to entities collaborating with it (hereinafter referred to as “the Information”).

WHO is willing to provide the Information to the Undersigned for the purpose of allowing the Undersigned to prepare a response to the Request for Proposals (RFP) for the “Health impact and cost-effectiveness of introduction of diphtheria, tetanus and pertussis booster doses in low- and middle-income countries” Project (“the Purpose”), provided that the Undersigned undertakes to treat the Information as confidential and proprietary, to use the Information only for the aforesaid Purpose and to disclose it only to persons who have a need to know for the Purpose and are bound by like obligations of confidentiality and non-use as are contained in this Undertaking.

The Undersigned undertakes to regard the Information as confidential and proprietary to WHO or parties collaborating with WHO, and agrees to take all reasonable measures to ensure that the Information is not used, disclosed or copied, in whole or in part, other than as provided in paragraph 2 above, except that the Undersigned shall not be bound by any such obligations if the Undersigned is clearly able to demonstrate that the Information:

- was known to the Undersigned prior to any disclosure by WHO to the Undersigned; or
- was in the public domain at the time of disclosure by WHO; or
- becomes part of the public domain through no fault of the Undersigned; or
- becomes available to the Undersigned from a third party not in breach of any legal obligations of confidentiality to WHO.

At WHO’s request, the Undersigned shall promptly return any and all copies of the Information to WHO.

The obligations of the Undersigned shall be of indefinite duration and shall not cease on termination of the above mentioned RFP process.

Any dispute relating to the interpretation or application of this Undertaking shall, unless amicably settled, be subject to conciliation. In the event of failure of the latter, the dispute shall be settled by arbitration. The arbitration shall be conducted in accordance with the modalities to be agreed upon by the parties or, in the absence of agreement, with the rules of arbitration of the International Chamber of Commerce. The parties shall accept the arbitral award as final.

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Request for Proposals: UHC-LC/IVB/IVR/dtp_lmic

Annex 3: Proposal Completeness Form (Ref. Paragraphs 4.4 & 4.6)

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<tr>
<th>Section</th>
<th>Requirement</th>
<th>Completed in full (Yes/No)</th>
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<tr>
<td>Annex 2</td>
<td>Confidentiality undertaking form</td>
<td>□ Yes □ No</td>
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<td>Annex 3</td>
<td>Proposal completeness form</td>
<td>□ Yes □ No</td>
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<td>Annex 5</td>
<td>Acceptance form</td>
<td>□ Yes □ No</td>
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<td>Annex 6</td>
<td>Self-Declaration Form</td>
<td>□ Yes □ No</td>
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<td>4.12.2 to 4.12.6</td>
<td>Technical Proposal, including Executive Summary, information about bidders, proposed solution, approach/methodology and timeline</td>
<td>□ Yes □ No</td>
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<td>Financial Proposal</td>
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The enclosed Proposal is valid for ____________ days from the date of this form (Ref. Paragraph 4.8).

Agreed and accepted, in (…..) original copies on ____________

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### Annex 4: Questions from Bidders (Ref. Paragraph 4.6)

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Request for Proposals: UHC-LC/IVB/IVR/dtp_lmic

Annex 5: Acceptance Form (Ref. Paragraph 4.6)

The Undersigned, ………………………, confirms to have read, understood and accepted the terms of the Request for Proposals (RFP) No. UHC-LC/IVB/IVR/dtp_lmic, and its accompanying documents. If selected by WHO for the work, the Undersigned undertakes, on its own behalf and on behalf of its possible partners and contractors, to perform UHC-LC/IVB/IVR/dtp_lmic in accordance with the terms of this RFP and any corresponding contract between WHO and the Undersigned, for the following sums:

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<td>Total Proposed Manpower Costs by Resource</td>
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The enclosed Proposal is valid for _____________ days from the date of this form (Ref. Paragraph 4.8).

Agreed and accepted, in (….) original copies on __________ Date __________

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Annex 6: Self Declaration Form

Applicable to private and public companies

<COMPANY> (the “Company”) hereby declares to the World Health Organization (WHO) that:

- it is not bankrupt or being wound up, having its affairs administered by the courts, has not entered into an arrangement with creditors, has not suspended business activities, is not the subject of proceedings concerning the foregoing matters, and is not in any analogous situation arising from a similar procedure provided for in national legislation or regulations;
- it is solvent and in a position to continue doing business for the period stipulated in the contract after contract signature, if awarded a contract by WHO;
- it or persons having powers of representation, decision making or control over the Company have not been convicted of an offence concerning their professional conduct by a final judgment;
- it or persons having powers of representation, decision making or control over the Company have not been the subject of a final judgment or of a final administrative decision for fraud, corruption, involvement in a criminal organization, money laundering, terrorist-related offences, child labour, human trafficking or any other illegal activity;
- it is in compliance with all its obligations relating to the payment of social security contributions and the payment of taxes in accordance with the national legislation or regulations of the country in which the Company is established;
- it is not subject to an administrative penalty for misrepresenting any information required as a condition of participation in a procurement procedure or failing to supply such information;
- it has declared to WHO any circumstances that could give rise to a conflict of interest or potential conflict of interest in relation to the current procurement action;
- it has not granted and will not grant, has not sought and will not seek, has not attempted and will not attempt to obtain, and has not accepted and will not accept any direct or indirect benefit (financial or otherwise) arising from a procurement contract or the award thereof;
- it adheres to the UN Supplier Code of Conduct;
- it has zero tolerance for sexual exploitation and abuse and has appropriate procedures in place to prevent and respond to sexual exploitation and abuse.

The Company understands that a false statement or failure to disclose any relevant information which may impact upon WHO's decision to award a contract may result in the disqualification of the Company from the bidding exercise and/or the withdrawal of any proposal of a contract with WHO. Furthermore, in case a contract has already been awarded, WHO shall be entitled to rescind the contract with immediate effect, in addition to any other remedies which WHO may have by contract or by law.

| Entity Name: | …………………………………………………………………………………………………… |
| Mailing Address: | …………………………………………………………………………………………………… |
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| Name and Title of duly authorized representative: | …………………………………………………………………………………………………… |
| Signature: | …………………………………………………………………………………………………… |
| Date: | …………………………………………………………………………………………………… |