



**ARIAS SOCIETY**

**Assam Rural Infrastructure and Agricultural Services Society**

*(An Autonomous Body of the Govt. of Assam)*

Project Coordination Unit (PCU) of the World Bank financed

**Assam Agribusiness & Rural Transformation Project (APART)**

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**STANDARD FORM OF CONTRACT**  
**Contract for Consultant's Services**  
**Lump-Sum**

**Project Name : Assam Agribusiness & Rural Transformation Project (APART)**

**Project ID : P155617**

**Loan No. : IBRD No. 8780-IN;**

**Contract No. : ARIASS/APART/WF/270/2017**

**Assignment Title : Technical Assistance for the Fisheries Sub-Component of the World Bank Financed APART**

**Contract Agreement between : Assam Rural Infrastructure and Agricultural Services (ARIAS) Society of the Government of Assam OR "ARIAS Society"**

**And**

**INTERNATIONAL CENTER FOR LIVING AQUATIC RESOURCES MANAGEMENT (ICLARM) also known as "WorldFish"**

**Dated : 10<sup>th</sup> August' 2018**



*[Signature]*  
State Project Director  
ARIAS Society

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*[Signature]*



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*Signature*  
**State Project Director**  
**ARIAS Society**

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*[Signature]*  
 State Project Director  
 APAS Society



## I. Form of Contract

### LUMP-SUM

This CONTRACT (hereinafter called the "Contract") is made the 10th day of the month of August' 018, between, on the one hand, **Assam Rural Infrastructure and Agricultural Services (ARIAS) Society of the Government of Assam** (hereinafter called the "Client") and, on the other hand, **International Center for Living Aquatic Resources Management (ICLARM) also known as "WorldFish"** (hereinafter called the "Consultant").

WHEREAS

- (a) the Client has requested the Consultant to provide certain consulting services as defined in this Contract (hereinafter called the "Services");
- (b) the Consultant, having represented to the Client that it has the required professional skills, expertise and technical resources, has agreed to provide the Services on the terms and conditions set forth in this Contract;
- (c) the Client has received a loan from the *International Bank for Reconstruction and Development (IBRD)* toward the cost of the Services and intends to apply a portion of the proceeds of this loan to eligible payments under this Contract, it being understood that (i) payments by the Bank will be made only at the request of the Client and upon approval by the Bank; (ii) such payments will be subject, in all respects, to the terms and conditions of the loan agreement, including prohibitions of withdrawal from the loan account for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import, to the knowledge of the Bank, is prohibited by the decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations; and (iii) no party other than the Client shall derive any rights from the loan agreement or have any claim to the loan proceeds;

NOW THEREFORE the parties hereto hereby agree as follows:

1. The following documents attached hereto shall be deemed to form an integral part of this Contract:
  - (a) The General Conditions of Contract (including Attachment 1 "Fraud and Corruption");
  - (b) The Special Conditions of Contract;
  - (c) Appendices:

Appendix A:	Terms of Reference
Appendix B:	Key Experts
Appendix C:	Breakdown of Contract Price
Appendix D:	Form of Advance Payments Guarantee ( <b>Deleted</b> ).
Appendix E:	Technical Proposal from WorldFish
- In the event of any inconsistency between the documents, the following order of precedence shall prevail: the Special Conditions of Contract; the General Conditions of Contract, including Attachment 1; Appendix A; Appendix B; Appendix C; Appendix D. Any reference to this Contract shall include, where the context permits, a reference to its Appendices.
2. The mutual rights and obligations of the Client and the Consultant shall be as set forth in the Contract, in particular:
  - (a) the Consultant shall carry out the Services in accordance with the provisions of the Contract; and
  - (b) the Client shall make payments to the Consultant in accordance with the provisions of the Contract.

IN WITNESS WHEREOF, the Parties hereto have caused this Contract to be signed in their respective names as of the day and year first above written.

For and on behalf of the International Center for Living Aquatic Resources Management (ICLARM) also known as "WorldFish". (Authorized Representative):

Signature:

PP. 

Name: Dr Gareth Johnstone  
Title: Director General, WorldFish  
Jalan Batu Maung, Batu Maung, 11  
Bayan Lepas, Penang, Malaysia  
Tel: (+60-4) 6286-888; Fax: (+60-4) 626 5530  
E-mail: worldfishcenter@cgiar.org  
Date: 10th August, 2018


Witness:






For and on behalf of the Assam Rural Infrastructure and Agricultural Services (ARIAS) Society of the Government of Assam. (Authorized Representative):

Signature:



Name: Mr. Vinod Seshan, IAS  
Title: State Project Director, ARIAS Society  
Agriculture complex, Kanapara, G.S. Road, Guwahati-  
781022 (Assam, India); Tel: +91 361-2332125; Fax: +91  
361-2332564; email: spd@arias.in  
Date: 10th August 2018

Witness:

  
10/8/2018  
(P. N. Das)  
Director of Fisheries  
Assam, Guwahati



## II. General Conditions of Contract

### A. GENERAL PROVISIONS

#### 1. Definitions

1.1 Unless the context otherwise requires, the following terms whenever used in this Contract have the following meanings:

- (a) "Applicable Law" means the laws and any other instruments having the force of law in the Client's country, or in such other country as may be specified in the **Special Conditions of Contract (SCC)**, as they may be issued and in force from time to time.
- (b) "Applicable Regulations" means Procurement Regulations for IPF Borrowers of date specified in **Special Conditions of Contract (SCC)**.
- (c) "Bank" means the International Bank for Reconstruction and Development (IBRD) or the International Development Association (IDA).
- (d) "Borrower" means the Government, Government agency or other entity that signs the financing agreement with the Bank.
- (e) "Client" means the implementing agency that signs the Contract for the Services with the Selected Consultant.
- (f) "Consultant" means a legally-established professional consulting firm or entity selected by the Client to provide the Services under the signed Contract.
- (g) "Contract" means the legally binding written agreement signed between the Client and the Consultant and which includes all the attached documents listed in its paragraph 1 of the Form of Contract (the General Conditions (GCC), the Special Conditions (SCC), and the Appendices).
- (h) "Day" means a working day unless indicated otherwise.
- (i) "Effective Date" means the date on which this Contract comes into force and effect pursuant to Clause GCC 11.
- (j) "Experts" means, collectively, Key Experts, Non-Key Experts, or any other personnel of the Consultant, Sub-consultant or JV member(s) assigned by the Consultant to perform the Services or any part thereof under the Contract.
- (k) "Foreign Currency" means any currency other than the currency of the Client's country.
- (l) "GCC" means these General Conditions of Contract.
- (m) "Government" means the government of the Client's country.
- (n) "Joint Venture (JV)" means an association with or without a legal personality distinct from that of its members, of more than one entity where one member has the authority to conduct all businesses for and on behalf of any and all the members of the JV, and where the members of the JV are jointly and severally liable to the Client for the performance of the Contract.
- (o) "Key Expert(s)" means an individual professional whose skills, qualifications, knowledge and experience are critical to the performance of the Services under the Contract and whose Curricula Vitae (CV) was taken into account in the technical evaluation of the Consultant's proposal.
- (p) "Local Currency" means the currency of the Client's country.
- (q) "Non-Key Expert(s)" means an individual professional provided by the Consultant or its Sub-consultant to perform the Services or any part thereof under the Contract.
- (r) "Party" means the Client or the Consultant, as the case may be, and "Parties" means both of them.



  
State Project Director  
ARIAS Society

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	<p>(s) "Procurement Regulations" means the World Bank's Procurement Regulations for IPF Borrowers,</p> <p>(t) "SCC" means the Special Conditions of Contract by which the GCC may be amended or supplemented but not over-written.</p> <p>(u) "Services" means the work to be performed by the Consultant pursuant to this Contract, as described in Appendix A hereto.</p> <p>(v) "Sub-consultants" means an entity to whom/which the Consultant subcontracts any part of the Services while remaining solely liable for the execution of the Contract.</p> <p>(w) "Third Party" means any person or entity other than the Government, the Client, the Consultant or a Sub-consultant.</p>
<b>1. Relationship between the Parties</b>	2.1. Nothing contained herein shall be construed as establishing a relationship of master and servant or of principal and agent as between the Client and the Consultant. The Consultant, subject to this Contract, has complete charge of the Experts and Sub-consultants, if any, performing the Services and shall be fully responsible for the Services performed by them or on their behalf hereunder.
<b>2. Law Governing Contract</b>	3.1. This Contract, its meaning and interpretation, and the relation between the Parties shall be governed by the Applicable Law.
<b>3. Language</b>	4.1. This Contract has been executed in the language specified in the SCC, which shall be the binding and controlling language for all matters relating to the meaning or interpretation of this Contract.
<b>4. Headings</b>	5.1. The headings shall not limit, alter or affect the meaning of this Contract.
<b>5. Communications</b>	<p>6.1. Any communication required or permitted to be given or made pursuant to this Contract shall be in writing in the language specified in Clause GCC 4. Any such notice, request or consent shall be deemed to have been given or made when delivered in person to an authorized representative of the Party to whom the communication is addressed, or when sent to such Party at the address specified in the SCC.</p> <p>6.2. A Party may change its address for notice hereunder by giving the other Party any communication of such change to the address specified in the SCC.</p>
<b>6. Location</b>	7.1. The Services shall be performed at such locations as are specified in <b>Appendix A</b> hereto and, where the location of a particular task is not so specified, at such locations, whether in the Government's country or elsewhere, as the Client may approve.
<b>7. Authority of Member in Charge</b>	8.1. In case the Consultant is a Joint Venture, the members hereby authorize the member specified in the SCC to act on their behalf in exercising all the Consultant's rights and obligations towards the Client under this Contract, including without limitation the receiving of instructions and payments from the Client.
<b>8. Authorized Representatives</b>	9.1. Any action required or permitted to be taken, and any document required or permitted to be executed under this Contract by the Client or the Consultant may be taken or executed by the officials specified in the SCC.
<b>9. Fraud and Corruption</b>	10.1 The Bank requires compliance with the Bank's Anti-Corruption Guidelines and its prevailing sanctions policies and procedures as set forth in the WBG Sanctions Framework, as set forth in Attachment 1 to the SCC.
<b>a. Commissions and Fees</b>	10.2 The Client requires the Consultant to disclose any gratuities or fees that may have been paid or are to be paid to agents or any other party with respect to the selection process or execution of the Contract. The information disclosed must include at least the name and address of the agent or other party, the amount and currency, and the purpose of the commission, gratuity or fee. Failure to disclose such commissions, gratuities

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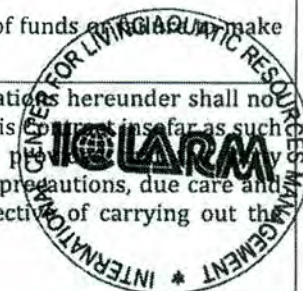


	or fees may result in termination of the Contract and/or sanctions by the Bank.
<b>B. COMMENCEMENT, COMPLETION, MODIFICATION AND TERMINATION OF CONTRACT</b>	
<b>10. Effectiveness of Contract</b>	11.1. This Contract shall come into force and effect on the date (the "Effective Date") of the Client's notice to the Consultant instructing the Consultant to begin carrying out the Services. This notice shall confirm that the effectiveness conditions, if any, listed in the SCC have been met.
<b>11. Termination of Contract for Failure to Become Effective</b>	12.1. If this Contract has not become effective within such time period after the date of Contract signature as specified in the SCC, either Party may, by not less than twenty two (22) days written notice to the other Party, declare this Contract to be null and void, and in the event of such a declaration by either Party, neither Party shall have any claim against the other Party with respect hereto.
<b>12. Commencement of Services</b>	13.1. The Consultant shall confirm availability of Key Experts and begin carrying out the Services not later than the number of days after the Effective Date specified in the SCC.
<b>13. Expiration of Contract</b>	14.1. Unless terminated earlier pursuant to Clause GCC 19 hereof, this Contract shall expire at the end of such time period after the Effective Date as specified in the SCC.
<b>14. Entire Agreement</b>	15.1. This Contract contains all covenants, stipulations and provisions agreed by the Parties. No agent or representative of either Party has authority to make, and the Parties shall not be bound by or be liable for, any statement, representation, promise or agreement not set forth herein.
<b>15. Modifications or Variations</b>	16.1. Any modification or variation of the terms and conditions of this Contract, including any modification or variation of the scope of the Services, may only be made by written agreement between the Parties. However, each Party shall give due consideration to any proposals for modification or variation made by the other Party.  16.2. In cases of substantial modifications or variations, the prior written consent of the Bank is required.
<b>16. Force Majeure</b>	
<b>a. Definition</b>	17.1. For the purposes of this Contract, "Force Majeure" means an event which is beyond the reasonable control of a Party, is not foreseeable, is unavoidable, and makes a Party's performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible under the circumstances, and subject to those requirements, includes, but is not limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood or other adverse weather conditions, strikes, lockouts or other industrial action confiscation or any other action by Government agencies.  17.2. Force Majeure shall not include (i) any event which is caused by the negligence or intentional action of a Party or such Party's Experts, Sub-consultants or agents or employees, nor (ii) any event which a diligent Party could reasonably have been expected to both take into account at the time of the conclusion of this Contract, and avoid or overcome in the carrying out of its obligations hereunder.  17.3. Force Majeure shall not include insufficiency of funds or inability to make any payment required hereunder.
<b>b. No Breach of Contract</b>	17.4. The failure of a Party to fulfill any of its obligations hereunder shall not be considered to be a breach of, or default under, this Contract insofar as such inability arises from an event of Force Majeure, provided that the Party affected by such an event has taken all reasonable precautions, due care and reasonable alternative measures, all with the objective of carrying out the terms and conditions of this Contract.

*[Signature]*

State Project Director  
ARIAS Society

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<p><b>c. Measures to be Taken</b></p>	<p>17.5. A Party affected by an event of Force Majeure shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall take all reasonable measures to minimize the consequences of any event of Force Majeure.</p> <p>17.6. A Party affected by an event of Force Majeure shall notify the other Party of such event as soon as possible, and in any case not later than fourteen (14) calendar days following the occurrence of such event, providing evidence of the nature and cause of such event, and shall similarly give written notice of the restoration of normal conditions as soon as possible.</p> <p>17.7. Any period within which a Party shall, pursuant to this Contract, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure.</p> <p>17.8. During the period of their inability to perform the Services as a result of an event of Force Majeure, the Consultant, upon instructions by the Client, shall either:</p> <p>demobilize, in which case the Consultant shall be reimbursed for additional costs they reasonably and necessarily incurred, and, if required by the Client, in reactivating the Services; or</p> <p>continue with the Services to the extent reasonably possible, in which case the Consultant shall continue to be paid under the terms of this Contract and be reimbursed for additional costs reasonably and necessarily incurred.</p> <p>17.9. In the case of disagreement between the Parties as to the existence or extent of Force Majeure, the matter shall be settled according to Clauses GCC 44 &amp; 45.</p>
<p><b>17. Suspension</b></p>	<p>18.1. The Client may, by written notice of suspension to the Consultant, suspend part or all payments to the Consultant hereunder if the Consultant fails to perform any of its obligations under this Contract, including the carrying out of the Services, provided that such notice of suspension (i) shall specify the nature of the failure, and (ii) shall request the Consultant to remedy such failure within a period not exceeding thirty (30) calendar days after receipt by the Consultant of such notice of suspension.</p>
<p><b>18. Termination</b></p>	<p>19.1. This Contract may be terminated by either Party as per provisions set up below:</p>
<p><b>a. By the Client</b></p>	<p>19.1.1. The Client may terminate this Contract in case of the occurrence of any of the events specified in paragraphs (a) through (f) of this Clause. In such an occurrence the Client shall give at least thirty (30) calendar days' written notice of termination to the Consultant in case of the events referred to in (a) through (d); at least sixty (60) calendar days' written notice in case of the event referred to in (e); and at least five (5) calendar days' written notice in case of the event referred to in (f):</p> <ul style="list-style-type: none"> <li>(a) If the Consultant fails to remedy a failure in the performance of its obligations hereunder, as specified in a notice of suspension pursuant to Clause GCC 18;</li> <li>(b) If the Consultant becomes (or, if the Consultant consists of more than one entity, if any of its members becomes) insolvent or bankrupt or enter into any agreements with their creditors for relief of debt or take advantage of any law for the benefit of debtors or go into liquidation or receivership, whether compulsory or voluntary;</li> <li>(c) If the Consultant fails to comply with any final decision reached as a result of arbitration proceedings pursuant to Clause GCC 45.1;</li> <li>(d) If, as the result of Force Majeure, the Consultant is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days;</li> </ul>

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*[Circular stamp: CENTRE FOR ADVISING AND QUALITY RESOURCES MANAGEMENT, ICLARM]*  
*[Text: State Project Director, ARIAS Society]*  
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	<p>(e) If the Client, in its sole discretion and for any reason whatsoever, decides to terminate this Contract;</p> <p>(f) If the Consultant fails to confirm availability of Key Experts as required in Clause GCC 13.</p> <p>19.1.2. Furthermore, if the Client determines that the Consultant has engaged in Fraud and Corruption in competing for or in executing the Contract, then the Client may, after giving fourteen (14) calendar days written notice to the Consultant, terminate the Consultant's employment under the Contract.</p>
<b>b. By the Consultant</b>	<p>19.1.3. The Consultant may terminate this Contract, by not less than thirty (30) calendar days' written notice to the Client, in case of the occurrence of any of the events specified in paragraphs (a) through (d) of this Clause.</p> <p>(a) If the Client fails to pay any money due to the Consultant pursuant to this Contract and not subject to dispute pursuant to Clause GCC 45.1 within forty-five (45) calendar days after receiving written notice from the Consultant that such payment is overdue.</p> <p>(b) If, as the result of Force Majeure, the Consultant is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days.</p> <p>(c) If the Client fails to comply with any final decision reached as a result of arbitration pursuant to Clause GCC 45.1.</p> <p>(d) If the Client is in material breach of its obligations pursuant to this Contract and has not remedied the same within forty-five (45) days (or such longer period as the Consultant may have subsequently approved in writing) following the receipt by the Client of the Consultant's notice specifying such breach.</p>
<b>c. Cessation of Rights and Obligations</b>	<p>19.1.4. Upon termination of this Contract pursuant to Clauses GCC 12 or GCC 19 hereof, or upon expiration of this Contract pursuant to Clause GCC 14, all rights and obligations of the Parties hereunder shall cease, except (i) such rights and obligations as may have accrued on the date of termination or expiration, (ii) the obligation of confidentiality set forth in Clause GCC 22, (iii) the Consultant's obligation to permit inspection, copying and auditing of their accounts and records set forth in Clause GCC 25 and to cooperate and assist in any inspection or investigation, and (iv) any right which a Party may have under the Applicable Law.</p>
<b>d. Cessation of Services</b>	<p>19.1.5. Upon termination of this Contract by notice of either Party to the other pursuant to Clauses GCC 19a or GCC 19b, the Consultant shall, immediately upon dispatch or receipt of such notice, take all necessary steps to bring the Services to a close in a prompt and orderly manner and shall make every reasonable effort to keep expenditures for this purpose to a minimum. With respect to documents prepared by the Consultant and equipment and materials furnished by the Client, the Consultant shall proceed as provided, respectively, by Clauses GCC 27 or GCC 28.</p>
<b>e. Payment upon Termination</b>	<p>19.1.6. Upon termination of this Contract, the Client shall make the following payments to the Consultant:</p> <p>(a) payment for Services satisfactorily performed prior to the effective date of termination; and</p> <p>(b) in the case of termination pursuant to paragraphs (d) and (e) of Clause GCC 19.1.1, reimbursement of any reasonable cost incidental to the prompt and orderly termination of this Contract, including the cost of the return travel of the Experts.</p>





<b>C. OBLIGATIONS OF THE CONSULTANT</b>	
<b>19. General</b>	
<b>a. Standard of Performance</b>	<p>20.1 The Consultant shall perform the Services and carry out the Services with all due diligence, efficiency and economy, in accordance with generally accepted professional standards and practices, and shall observe sound management practices, and employ appropriate technology and safe and effective equipment, machinery, materials and methods. The Consultant shall always act, in respect of any matter relating to this Contract or to the Services, as a faithful adviser to the Client, and shall at all times support and safeguard the Client's legitimate interests in any dealings with the third parties.</p> <p>20.2. The Consultant shall employ and provide such qualified and experienced Experts and Sub-consultants as are required to carry out the Services.</p> <p>20.3. The Consultant may subcontract part of the Services to an extent and with such Key Experts and Sub-consultants as may be approved in advance by the Client. Notwithstanding such approval, the Consultant shall retain full responsibility for the Services.</p>
<b>b. Law Applicable to Services</b>	<p>20.4. The Consultant shall perform the Services in accordance with the Contract and the Applicable Law and shall take all practicable steps to ensure that any of its Experts and Sub-consultants, comply with the Applicable Law.</p> <p>20.5. Throughout the execution of the Contract, the Consultant shall comply with the import of goods and services prohibitions in the Client's country when</p> <ul style="list-style-type: none"> <li>(a) as a matter of law or official regulations, the Borrower's country prohibits commercial relations with that country; or</li> <li>(b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower's Country prohibits any import of goods from that country or any payments to any country, person, or entity in that country.</li> </ul> <p>20.6. The Client shall notify the Consultant in writing of relevant local customs, and the Consultant shall, after such notification, respect such customs.</p>
<b>20. Conflict of Interest</b>	<p>21.1. The Consultant shall hold the Client's interests paramount, without any consideration for future work, and strictly avoid conflict with other assignments or their own corporate interests.</p>
<b>a. Consultant Not to Benefit from Commissions, Discounts, etc.</b>	<p>21.1.1 The payment of the Consultant pursuant to GCC F (Clauses GCC 38 through 42) shall constitute the Consultant's only payment in connection with this Contract and, subject to Clause GCC 21.1.3, the Consultant shall not accept for its own benefit any trade commission, discount or similar payment in connection with activities pursuant to this Contract or in the discharge of its obligations hereunder, and the Consultant shall use its best efforts to ensure that any Sub-consultants, as well as the Experts and agents of either of them, similarly shall not receive any such additional payment.</p> <p>21.1.2 Furthermore, if the Consultant, as part of the Services, has the responsibility of advising the Client on the procurement of goods, works or services, the Consultant shall comply with the Bank's Applicable Regulations, and shall at all times exercise such responsibility in the best interest of the Client. Any discounts or commissions obtained by the Consultant in the exercise of such procurement responsibility shall be for the account of the Client.</p>



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State Project Director  
ARIAS Society

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<b>b. Consultant and Affiliates Not to Engage in Certain Activities</b>	21.1.3 The Consultant agrees that, during the term of this Contract and after its termination, the Consultant and any entity affiliated with the Consultant, as well as any Sub-consultants and any entity affiliated with such Sub-consultants, shall be disqualified from providing goods, works or non-consulting services resulting from or directly related to the Consultant's Services for the preparation or implementation of the project.
<b>c. Prohibition of Conflicting Activities</b>	21.1.4 The Consultant shall not engage, and shall cause its Experts as well as its Sub-consultants not to engage, either directly or indirectly, in any business or professional activities that would conflict with the activities assigned to them under this Contract.
<b>d. Strict Duty to Disclose Conflicting Activities</b>	21.1.5 The Consultant has an obligation and shall ensure that its Experts and Sub-consultants shall have an obligation to disclose any situation of actual or potential conflict that impacts their capacity to serve the best interest of their Client, or that may reasonably be perceived as having this effect. Failure to disclose said situations may lead to the disqualification of the Consultant or the termination of its Contract.
<b>21. Confidentiality</b>	22.1 Except with the prior written consent of the Client, the Consultant and the Experts shall not at any time communicate to any person or entity any confidential information acquired in the course of the Services, nor shall the Consultant and the Experts make public the recommendations formulated in the course of, or as a result of, the Services.
<b>22. Liability of the Consultant</b>	23.1 Subject to additional provisions, if any, set forth in the SCC, the Consultant's liability under this Contract shall be provided by the Applicable Law.
<b>23. Insurance to be taken out by the Consultant</b>	24.1 The Consultant (i) shall take out and maintain, and shall cause any Sub-consultants to take out and maintain, at its (or the Sub-consultants', as the case may be) own cost but on terms and conditions approved by the Client, insurance against the risks, and for the coverage specified in the SCC, and (ii) at the Client's request, shall provide evidence to the Client showing that such insurance has been taken out and maintained and that the current premiums therefore have been paid. The Consultant shall ensure that such insurance is in place prior to commencing the Services as stated in Clause GCC 13.
<b>24. Accounting, Inspection and Auditing</b>	<p>25.1 The Consultant shall keep, and shall make all reasonable efforts to cause its Sub-consultants to keep, accurate and systematic accounts and records in respect of the Services and in such form and detail as will clearly identify relevant time changes and costs.</p> <p>25.2 Pursuant to paragraph 2.2 e. of Appendix to the General Conditions the Consultant shall permit and shall cause its subcontractors and subconsultants to permit, the Bank and/or persons appointed by the Bank to inspect the Site and/or the accounts and records relating to the performance of the Contract and the submission of the bid, and to have such accounts and records audited by auditors appointed by the Bank if requested by the Bank. The Consultant's and its Subcontractors' and subconsultants' attention is drawn to Sub-Clause 10.1 which provides, inter alia, that acts intended to materially impede the exercise of the Bank's inspection and audit rights constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the Bank's prevailing sanctions procedures).</p>
<b>25. Reporting Obligations</b>	26.1 The Consultant shall submit to the Client the reports and documents specified in <b>Appendix A</b> , in the form, in the numbers and within the time periods set forth in the said Appendix.
<b>26. Proprietary Rights of the Client in Reports and Records</b>	27.1 Unless otherwise indicated in the SCC, all reports and relevant data and information such as maps, diagrams, plans, databases, other documents and software, supporting records or material compiled or prepared by the Consultant for the Client in the course of the Services shall be confidential and





	<p>become and remain the absolute property of the Client. The Consultant shall, not later than upon termination or expiration of this Contract, deliver all such documents to the Client, together with a detailed inventory thereof. The Consultant may retain a copy of such documents, data and/or software but shall not use the same for purposes unrelated to this Contract without prior written approval of the Client.</p> <p>27.2 If license agreements are necessary or appropriate between the Consultant and third parties for purposes of development of the plans, drawings, specifications, designs, databases, other documents and software, the Consultant shall obtain the Client's prior written approval to such agreements, and the Client shall be entitled at its discretion to require recovering the expenses related to the development of the program(s) concerned. Other restrictions about the future use of these documents and software, if any, shall be specified in the SCC.</p>
<b>27. Equipment, Vehicles and Materials</b>	<p>28.1 Equipment, vehicles and materials made available to the Consultant by the Client, or purchased by the Consultant wholly or partly with funds provided by the Client, shall be the property of the Client and shall be marked accordingly. Upon termination or expiration of this Contract, the Consultant shall make available to the Client an inventory of such equipment, vehicles and materials and shall dispose of such equipment, vehicles and materials in accordance with the Client's instructions. While in possession of such equipment, vehicles and materials, the Consultant, unless otherwise instructed by the Client in writing, shall insure them at the expense of the Client in an amount equal to their full replacement value.</p> <p>28.2 Any equipment or materials brought by the Consultant or its Experts into the Client's country for the use either for the project or personal use shall remain the property of the Consultant or the Experts concerned, as applicable.</p>
<b>D. CONSULTANT'S EXPERTS AND SUB-CONSULTANTS</b>	
<b>28. Description of Key Experts</b>	<p>29.1 The title, agreed job description, minimum qualification and estimated period of engagement to carry out the Services of each of the Consultant's Key Experts are described in <b>Appendix B</b>.</p>
<b>29. Replacement of Key Experts</b>	<p>30.1 Except as the Client may otherwise agree in writing, no changes shall be made in the Key Experts.</p> <p>30.2 Notwithstanding the above, the substitution of Key Experts during Contract execution may be considered only based on the Consultant's written request and due to circumstances outside the reasonable control of the Consultant, including but not limited to death or medical incapacity. In such case, the Consultant shall forthwith provide as a replacement, a person of equivalent or better qualifications and experience, and at the same rate of remuneration.</p>
<b>30. Removal of Experts or Sub-consultants</b>	<p>31.1 If the Client finds that any of the Experts or Sub-consultant has committed serious misconduct or has been charged with having committed a criminal action, or if the Client determines that a Consultant's Expert or Sub-consultant has engaged in Fraud and Corruption while performing the Services, the Consultant shall, at the Client's written request, provide a replacement.</p> <p>31.2 In the event that any of Key Experts, Non-Key Experts or Sub-consultants is found by the Client to be incompetent or incapable in discharging assigned duties, the Client, specifying the grounds therefore, may request the Consultant to provide a replacement.</p> <p>31.3 Any replacement of the removed Experts or Sub-consultants shall possess better qualifications and experience and shall be acceptable to the Client.</p> <p>31.4 The Consultant shall bear all costs arising out of or incidental to any removal and/or replacement of such Experts.</p>





<b>E. OBLIGATIONS OF THE CLIENT</b>	
<b>31. Assistance and Exemptions</b>	<p>32.1 Unless otherwise specified in the <b>SCC</b>, the Client shall use its best efforts to:</p> <ul style="list-style-type: none"> <li>(a) Assist the Consultant with obtaining work permits and such other documents as shall be necessary to enable the Consultant to perform the Services.</li> <li>(b) Assist the Consultant with promptly obtaining, for the Experts and, if appropriate, their eligible dependents, all necessary entry and exit visas, residence permits, exchange permits and any other documents required for their stay in the Client's country while carrying out the Services under the Contract.</li> <li>(c) Facilitate prompt clearance through customs of any property required for the Services and of the personal effects of the Experts and their eligible dependents.</li> <li>(c) Issue to officials, agents and representatives of the Government all such instructions and information as may be necessary or appropriate for the prompt and effective implementation of the Services.</li> <li>(d) Assist the Consultant and the Experts and any Sub-consultants employed by the Consultant for the Services with obtaining exemption from any requirement to register or obtain any permit to practice their profession or to establish themselves either individually or as a corporate entity in the Client's country according to the applicable law in the Client's country.</li> <li>(e) Assist the Consultant, any Sub-consultants and the Experts of either of them with obtaining the privilege, pursuant to the applicable law in the Client's country, of bringing into the Client's country reasonable amounts of foreign currency for the purposes of the Services or for the personal use of the Experts and of withdrawing any such amounts as may be earned therein by the Experts in the execution of the Services.</li> <li>(f) Provide to the Consultant any such other assistance as may be specified in the <b>SCC</b>.</li> </ul>
<b>32. Access to Project Site</b>	<p>33.1 The Client warrants that the Consultant shall have, free of charge, unimpeded access to the project site in respect of which access is required for the performance of the Services. The Client will be responsible for any damage to the project site or any property thereon resulting from such access and will indemnify the Consultant and each of the experts in respect of liability for any such damage, unless such damage is caused by the willful default or negligence of the Consultant or any Sub-consultants or the Experts of either of them.</p>
<b>33. Change in the Applicable Law Related to Taxes and Duties</b>	<p>34.1 If, after the date of this Contract, there is any change in the applicable law in the Client's country with respect to taxes and duties which increases or decreases the cost incurred by the Consultant in performing the Services, then the remuneration and reimbursable expenses otherwise payable to the Consultant under this Contract shall be increased or decreased accordingly by agreement between the Parties hereto, and corresponding adjustments shall be made to the Contract price amount specified in Clause GCC 38.1</p>
<b>34. Services, Facilities and Property of the Client</b>	<p>35.1 The Client shall make available to the Consultant and the Experts, for the purposes of the Services and free of any charge, the services, facilities and property described in the Terms of Reference (<b>Appendix A</b>) at the times and in the manner specified in said <b>Appendix A</b>.</p>
<b>35. Counterpart Personnel</b>	<p>36.1 The Client shall make available to the Consultant free of charge such professional and support counterpart personnel, to be nominated by the Client with the Consultant's advice, if specified in <b>Appendix A</b>.</p> <p>36.2 Professional and support counterpart personnel, excluding Client's liaison personnel, shall work under the exclusive direction of the Consultant.</p>





	If any member of the counterpart personnel fails to perform adequately any work assigned to such member by the Consultant that is consistent with the position occupied by such member, the Consultant may request the replacement of such member, and the Client shall not unreasonably refuse to act upon such request.
<b>36. Payment Obligation</b>	37.1 In consideration of the Services performed by the Consultant under this Contract, the Client shall make such payments to the Consultant for the deliverables specified in <b>Appendix A</b> and in such manner as is provided by GCC F below.
<b>F. PAYMENTS TO THE CONSULTANT</b>	
<b>37. Contract Price</b>	<p>38.1 The Contract price is fixed and is set forth in the <b>SCC</b>. The Contract price breakdown is provided in <b>Appendix C</b>.</p> <p>38.2 Any change to the Contract price specified in Clause GCC 38.1 can be made only if the Parties have agreed to the revised scope of Services pursuant to Clause GCC 16 and have amended in writing the Terms of Reference in <b>Appendix A</b>.</p>
<b>38. Taxes and Duties</b>	<p>39.1 The Consultant, Sub-consultants and Experts are responsible for meeting any and all tax liabilities arising out of the Contract unless it is stated otherwise in the <b>SCC</b>.</p> <p>39.2 As an exception to the above and as stated in the <b>SCC</b>, all local identifiable indirect taxes (itemized and finalized at Contract negotiations) are reimbursed to the Consultant or are paid by the Client on behalf of the Consultant.</p>
<b>39. Currency of Payment</b>	40.1 Any payment under this Contract shall be made in the currency (ies) of the Contract.
<b>40. Mode of Billing and Payment</b>	<p>41.1 The total payments under this Contract shall not exceed the Contract price set forth in Clause GCC 38.1.</p> <p>41.2 The payments under this Contract shall be made in lump-sum installments against deliverables specified in <b>Appendix A</b>. The payments will be made according to the payment schedule stated in the <b>SCC</b>.</p> <p>41.2.1 <u>Advance payment:</u> Unless otherwise indicated in the <b>SCC</b>, an advance payment shall be made against an advance payment bank guarantee acceptable to the Client in an amount (or amounts) and in a currency (or currencies) specified in the <b>SCC</b>. Such guarantee (i) is to remain effective until the advance payment has been fully set off, and (ii) is to be in the form set forth in <b>Appendix D</b>, or in such other form as the Client shall have approved in writing. The advance payments will be set off by the Client in equal portions against the lump-sum installments specified in the <b>SCC</b> until said advance payments have been fully set off.</p> <p>41.2.2 <u>The Lump-Sum Installment Payments.</u> The Client shall pay the Consultant within sixty (60) days after the receipt by the Client of the deliverable(s) and the cover invoice for the related lump-sum installment payment. The payment can be withheld if the Client does not approve the submitted deliverable(s) as satisfactory in which case the Client shall provide comments to the Consultant within the same sixty (60) days period. The Consultant shall thereupon promptly make any necessary corrections, and thereafter the foregoing process shall be repeated.</p> <p>41.2.3 <u>The Final Payment.</u> The final payment under this Clause shall be made only after the final report have been submitted by the Consultant and approved as satisfactory by the Client. The Services shall then be deemed completed and finally accepted by the Client. The last lump-sum installment shall be deemed approved for payment by the Client within ninety (90) calendar days after receipt of the final report by the Client unless the Client, within such ninety (90) calendar day period, gives written notice to the Consultant specifying in detail deficiencies in the services, the</p>



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*ARIAS*



	<p>final report. The Consultant shall thereupon promptly make any necessary corrections, and thereafter the foregoing process shall be repeated. 41.2.4 All payments under this Contract shall be made to the accounts of the Consultant specified in the SCC.</p> <p>41.2.4 With the exception of the final payment under 41.2.3 above, payments do not constitute acceptance of the whole Services nor relieve the Consultant of any obligations hereunder.</p>
<b>41. Interest on Delayed Payments</b>	<p>42.1 If the Client had delayed payments beyond fifteen (15) days after the due date stated in Clause GCC 41.2.2, interest shall be paid to the Consultant on any amount due by, not paid on, such due date for each day of delay at the annual rate stated in the SCC.</p>
<b>G. FAIRNESS AND GOOD FAITH</b>	
<b>42. Good Faith</b>	<p>43.1 The Parties undertake to act in good faith with respect to each other's rights under this Contract and to adopt all reasonable measures to ensure the realization of the objectives of this Contract.</p>
<b>H. SETTLEMENT OF DISPUTES</b>	
<b>43. Amicable Settlement</b>	<p>44.1 The Parties shall seek to resolve any dispute amicably by mutual consultation.</p> <p>44.2 If either Party objects to any action or inaction of the other Party, the objecting Party may file a written Notice of Dispute to the other Party providing in detail the basis of the dispute. The Party receiving the Notice of Dispute will consider it and respond in writing within fourteen (14) days after receipt. If that Party fails to respond within fourteen (14) days, or the dispute cannot be amicably settled within fourteen (14) days following the response of that Party, Clause GCC 45.1 shall apply.</p>
<b>44. Dispute Resolution</b>	<p>45.1 Any dispute between the Parties arising under or related to this Contract that cannot be settled amicably may be referred to by either Party to the adjudication/arbitration in accordance with the provisions specified in the SCC.</p>

  
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**II. General Conditions**  
**Attachment 1**  
**Fraud and Corruption**  
**(Text in this Appendix shall not be modified)**

**1. Purpose**

- 1.1 The Bank's Anti-Corruption Guidelines and this annex apply with respect to procurement under Bank Investment Project Financing operations.

**2. Requirements**

- 2.1 The Bank requires that Borrowers (including beneficiaries of Bank financing); bidders (applicants/proposers), consultants, contractors and suppliers; any sub-contractors, sub-consultants, service providers or suppliers; any agents (whether declared or not); and any of their personnel, observe the highest standard of ethics during the procurement process, selection and contract execution of Bank-financed contracts, and refrain from Fraud and Corruption.

2.2 To this end, the Bank:

- a. Defines, for the purposes of this provision, the terms set forth below as follows:
- i. "corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
  - ii. "fraudulent practice" is any act or omission, including misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;
  - iii. "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
  - iv. "coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
  - v. "obstructive practice" is:
    - (a) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive, or collusive practice; and/or threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or
    - (b) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under paragraph 2.2 e. below.
- b. Rejects a proposal for award if the Bank determines that the firm or individual recommended for award, any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/ or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
- c. In addition to the legal remedies set out in the relevant Legal Agreement, may take other appropriate actions, including declaring misprocurement, if the Bank determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement process, selection and/or execution of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;
- d. Pursuant to the Bank's Anti- Corruption Guidelines and in accordance with the Bank's prevailing sanctions policies and procedures, may sanction a firm or individual, either indefinitely or for a stated period of time, including by publicly declaring such firm or individual ineligible (i) to be awarded or otherwise benefit from a Bank-financed contract, financially or in any other manner;<sup>1</sup> (ii) to be a

<sup>1</sup> For the avoidance of doubt, a sanctioned party's ineligibility to be awarded a contract shall include, without limitation, (i) applying for pre-qualification, expressing interest in a consultancy, and bidding, either directly or as a nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider, in respect of such contract, and (ii) entering into an addendum or amendment introducing a material modification to any existing contract.



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nominated<sup>2</sup> sub-contractor, consultant, manufacturer or supplier, or service provider of an otherwise eligible firm being awarded a Bank-financed contract; and (iii) to receive the proceeds of any loan made by the Bank or otherwise to participate further in the preparation or implementation of any Bank-financed project;

- e. Requires that a clause be included in bidding/request for proposals documents and in contracts financed by a Bank loan, requiring (i) bidders (applicants/proposers), consultants, contractors, and suppliers, and their sub-contractors, sub-consultants, service providers, suppliers, agents personnel, permit the Bank to inspect<sup>3</sup> all accounts, records and other documents relating to the procurement process, selection and/or contract execution,, and to have them audited by auditors appointed by the Bank.



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<sup>2</sup> A nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider (different names are used depending on the particular bidding document) is one which has been: (i) included by the bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that allow the bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Borrower.

<sup>3</sup> Inspections in this context usually are investigative (i.e., forensic) in nature. They involve fact-finding activities undertaken by the Bank or persons appointed by the Bank to address specific matters related to investigations/audits, such as evaluating the veracity of an allegation of possible Fraud and Corruption, through the appropriate mechanisms. Such activity includes but is not limited to: accessing and examining a firm's or individual's financial records and information, and making copies thereof as relevant; accessing and examining any other documents, data and information (whether in hard copy or electronic format) deemed relevant for the investigation/audit, and making copies thereof as relevant; interviewing staff and other relevant individuals; performing physical inspections and site visits; and obtaining third party verification of information.



### III. Special Conditions of Contract

Number of GC Clause	Amendments of, and Supplements to, Clauses in the General Conditions of Contract
1.1(a)	The Contract shall be construed in accordance with the law of India
1.1 (b)	The date of the "Applicable Regulations" is: July, 2016
4.1	The language is: English
6.1 and 6.2	<p><b>The addresses are:</b></p> <p>Client : ARIAS Society, Project Coordination Unit, Agriculture Complex, Khanapara, G.S. Road, Guwahati-781022 (Assam, India); Tel: 0361-2332125;</p> <p>Attention : State Project Director, ARIAS Society</p> <p>Facsimile : +91 <u>361-2332564</u></p> <p>E-mail : <u>spd@arias.in</u></p> <p>Consultant : INTERNATIONAL CENTER FOR LIVING AQUATIC RESOURCES MANAGEMENT (ICLARM) also known as WORLD FISH, Jalan Batu Maung, Batu Maung, 11960 Bayan Lepas, PENANG, MALAYSIA</p> <p>Attention : Director General, WorldFish</p> <p>Facsimile : Fax: +60 4626 5530 ; Phone: +60 4628 6888,</p> <p>E-mail (where permitted) : <u>worldfishcenter@cgiar.org</u></p>
8.1	Not Applicable
9.1	<p><b>The Authorized Representatives are:</b></p> <p><b>For the Client:</b> State Project Director, ARIAS Society and Director of Fisheries, Government of Assam.</p> <p><b>For the Consultant:</b> Director General, ICLARM (WorldFish)</p>
11.1	<b>The effectiveness conditions are the following:</b> Date of undertaking by the Consultant that the proposed key experts are ready to undertake the assignment.
12.1	<p><b>Termination of Contract for Failure to Become Effective:</b></p> <p><b>The time period shall be 120 days</b></p>
13.1	<p><b>Commencement of Services:</b></p> <p><b>The number of days shall be 10 days</b> from the date of effectiveness.</p> <p>Confirmation of Key Experts' availability to start the Assignment shall be submitted to the Client in writing as a written statement signed by each Key Expert.</p>
14.1	<p><b>Expiration of Contract:</b></p> <p><b>The time period shall be 60 (Sixty) months</b> after the Effective Date</p>
21 b.	The Client reserves the right to determine on a case-by-case basis whether the Consultant should be allowed from providing goods, works or non-consulting services due to a conflict of a nature described in Clause GCC 21.1.3 : Yes
23.1	No additional provisions.
24.1	<p><b>The insurance coverage against the risks shall be as follows:</b></p> <p>a. Professional liability insurance (PLI), with a minimum coverage of US\$ 1,062,699</p>



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	<p>b. Third Party motor vehicle liability insurance in respect of motor vehicles operated in the Client's country by the Consultant or its Experts or Sub-consultants, with a minimum coverage <b><i>in accordance with the applicable law in the Client's country;</i></b></p> <p>c. Third Party liability insurance, with a minimum coverage <b><i>in accordance with the applicable law in the Client's country;</i></b></p> <p>d. employer's liability and workers' compensation insurance in respect of the experts and Sub-consultants in accordance with the relevant provisions of the applicable law in the Client's country, as well as, with respect to such Experts, any such life, health, accident, travel or other insurance as may be appropriate; and</p> <p>e. insurance against loss of or damage to (i) equipment purchased in whole or in part with funds provided under this Contract, (ii) the Consultant's property used in the performance of the Services, and (iii) any documents prepared by the Consultant in the performance of the Services.</p>
27.1	<b>No exceptions to proprietary rights provision. However, in case WorldFish introduces their technologies / germplasm / varieties under the project, the client/Government of Assam shall have the liberty to further adopt/multiply/use/modify the same.</b>
38.1	<p><b>The Contract price is: US\$ 1,062,699</b> (in words US Dollar One Million sixty two Thousand six Hundred and ninety nine only) (exclusive of local indirect taxes i.e. GST) (GST: Goods and Services Tax)</p> <p><b>Any indirect local taxes i.e. GST chargeable in respect of this Contract for the Services provided by the Consultant shall be paid by the Client for the Consultant, as per applicable laws of India.</b></p> <p><b>The amount of such taxes shall be Indian Rupees 1,24,33,578/-</b> (in words Indian Rupees One crore twenty four lakh thirty three thousand five hundred and seventy eight only) @ 18% GST with exchange rate of 1 US\$=₹.65/-</p>
39.1 and 39.2	<p>The Client warrants that the Client shall reimburse the Consultant, the Sub-consultants and the Experts any indirect taxes, duties, fees, levies and other impositions imposed, under the applicable law in the Client's country, on the Consultant, the Sub-consultants and the Experts in respect of:</p> <p>(a) any payments whatsoever made to the Consultant, Sub-consultants and the Experts (other than nationals or permanent residents of the Client's country), in connection with the carrying out of the Services;</p> <p>(b) any equipment, materials and supplies brought into the Client's country by the Consultant or Sub-consultants for the purpose of carrying out the Services and which, after having been brought into such territories, will be subsequently withdrawn by them;</p> <p>(c) any equipment imported for the purpose of carrying out the Services and paid for out of funds provided by the Client and which is treated as property of the Client;</p> <p>(d) any property brought into the Client's country by the Consultant, any Sub-consultants or the Experts (other than nationals or permanent residents of the Client's country), or the eligible dependents of such experts for their personal use and which will subsequently be withdrawn by them upon their respective departure from the Client's country, provided that:</p> <p>(i) the Consultant, Sub-consultants and experts shall follow the usual customs procedures of the Client's country in importing property into the Client's country; and</p> <p>(ii) if the Consultant, Sub-consultants or Experts do not withdraw but dispose of any property in the Client's country upon which customs duties and taxes have been exempted, the Consultant, Sub-consultants or Experts, as the case may be, (a) shall bear such customs duties and taxes in conformity with the regulations of the Client's country, or (b) shall reimburse them to the Client if they were paid by the Client at the time the property in question was brought into the Client's country.</p>





41.2

**The payment schedule:**

#	Deliverables/ Activity	Payment Schedule for Technical Advisory Support								Exit Strategy		% payment out of total contract price
		Year 1		Year 2		Year 3		Year 4		Year 5		
		1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	
1	Deliverable A: Inception Report	10.00%	-	-	-	-	-	-	-	-	-	10.0%
2	Deliverable 1: Promoting adoption of BMPs for sustainable intensification of aquaculture	0.50%	2.00%	1.50%	0.50%	0%	0%	0%	0%	0.25%	0.25%	5.0%
3	Deliverable 2: Up-gradation of Existing Indian major carp hatcheries to produce certified seed	0.50%	0.50%	2.00%	0.50%	1.75%	0.75%	1.00%	1.00%	0.25%	0.25%	8.50%
4	Deliverable 3: Multiplication Centres (MCs) for genetically improved fish strains	0.25%	0.75%	0.25%	1.50%	0.75%	0.25%	0%	0%	0.50%	0.75%	5.0%
5	Deliverable 4: Improving productivity of beels	0.25%	0.15%	1.60%	1.50%	1.25%	2.00%	0%	1.50%	0.50%	0.50%	9.25%
6	Deliverable 5: Improving Fish Value Chains	0%	0.25%	1.00%	0%	1.25%	0%	1.50%	0%	0%	0.25%	4.25%
7	Deliverable 6: Carp-Mola polyculture	0%	0.50%	2.00%	2.00%	0.50%	1.75%	1.25%	1.50%	0.75%	0.50%	10.75%
8	Deliverable 7: Improving impact of aquaculture and beel fisheries on human nutrition	0%	0%	0.50%	0.50%	1.25%	2.25%	1.50%	1.50%	0.25%	0.25%	8.0%
9	Deliverable 8: Promoting climate resilient smart fish production technologies	1.00%	1.00%	0%	0.80%	0%	2.00%	0%	1.60%	0.25%	0.50%	7.15%
10	Deliverable 9: Gender transformative approaches in support of sustainable aquaculture and beel fisheries	0%	0%	0.50%	0.85%	0%	0.50%	0%	0.75%	0.25%	0.25%	3.10%
11	Deliverable 10: Capacity building of DoF Officers	3.25%	4.50%	3.00%	3.00%	3.25%	3.50%	3.25%	3.25%	2.00%	0%	29.0%
Total % of half yearly payments out of the Grand Total Payment		15.75 %	9.65 %	12.35 %	11.15 %	10.00 %	13.00 %	8.50 %	11.10 %	5.00 %	3.50 %	100.00%
Total yearly payments US\$		269,926		249,734		244,421		208,289		90,329		1,062,699

Note:

Payment of installments shall be linked to the detailed deliverables specified in the Terms of Reference at Appendix A.

If WorldFish needs any advance payment, it shall be made (maximum 5% of the contract ceiling) against the bank guarantee for the same amount as per GCC 41.2.1

c) Total sum of all installments shall not exceed the Contract price set up in SCC 38.1



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*Andhra Pradesh*



41.2.1	There shall be no advance payment under the contract.
41.2.4	<p>The accounts are: <u>for foreign currency</u>: WorldFish payment details are as follows:</p> <p>ACCOUNT NAME: ICLARM  CURRENCY: USD  BANK NAME: Citibank NA  BANK ADDRESS: 153 East 53rd Street, 21st Floor, New York, NY  ACCOUNT NUMBER: 1013 8388  SWIFT/BIC: CITIUS33  ABA/BANK CODE 021 000 089  <u>for local currency</u>: Not applicable</p>
42.1	The interest rate is: 8% per Annum
45.1	<p>Disputes shall be settled by arbitration in accordance with the following provisions:</p> <ol style="list-style-type: none"> <li>1. <u>Selection of Arbitrators</u>. Each dispute submitted by a Party to arbitration shall be heard by a sole arbitrator or an arbitration panel composed of three (3) arbitrators, in accordance with the following provisions: <ol style="list-style-type: none"> <li>(a) Where the Parties agree that the dispute concerns a technical matter, they may agree to appoint a sole arbitrator or, failing agreement on the identity of such sole arbitrator within thirty (30) days after receipt by the other Party of the proposal of a name for such an appointment by the Party who initiated the proceedings, either Party may apply to <b>the Federation Internationale des Ingenieurs-Conseil (FIDIC) of Lausanne, Switzerland</b> for a list of not fewer than five (5) nominees and, on receipt of such list, the Parties shall alternately strike names therefrom, and the last remaining nominee on the list shall be the sole arbitrator for the matter in dispute. If the last remaining nominee has not been determined in this manner within sixty (60) days of the date of the list, <b>the Federation Internationale des Ingenieurs-Conseil (FIDIC) of Lausanne, Switzerland</b> shall appoint, upon the request of either Party and from such list or otherwise, a sole arbitrator for the matter in dispute.</li> <li>(b) Where the Parties do not agree that the dispute concerns a technical matter, the Client and the Consultant shall each appoint one (1) arbitrator, and these two arbitrators shall jointly appoint a third arbitrator, who shall chair the arbitration panel. If the arbitrators named by the Parties do not succeed in appointing a third arbitrator within thirty (30) days after the latter of the two (2) arbitrators named by the Parties has been appointed, the third arbitrator shall, at the request of either Party, be appointed by <b>the Secretary General of the Permanent Court of Arbitration, The Hague</b>.</li> <li>(c) If, in a dispute subject to paragraph (b) above, one Party fails to appoint its arbitrator within thirty (30) days after the other Party has appointed its arbitrator, the Party which has named an arbitrator may apply to <b>the Secretary General of the Permanent Court of Arbitration, The Hague</b> to appoint a sole arbitrator for the matter in dispute, and the arbitrator appointed pursuant to such application shall be the sole arbitrator for that dispute.</li> </ol> </li> <li>2. <u>Rules of Procedure</u>. Except as otherwise stated herein, arbitration proceedings shall be conducted in accordance with the rules of procedure for arbitration of the United Nations Commission on International Trade Law (UNCITRAL) as in force on the date of this Contract.</li> <li>3. <u>Substitute Arbitrators</u>. If for any reason an arbitrator is unable to perform his/her function, a substitute shall be appointed in the same manner as the original arbitrator.</li> <li>4. <u>Nationality and Qualifications of Arbitrators</u>. The sole arbitrator or the third arbitrator appointed pursuant to paragraphs 1(a) through 1(c) above shall be an internationally recognized legal or technical expert with extensive experience in relation to the matter in dispute and shall not be a national of the Consultant's home country or of the Government's country. For the purposes of this Clause, "home country" means any of: <ol style="list-style-type: none"> <li>(a) the country of incorporation of the Consultant; or</li> <li>(b) the country in which the Consultant's principal place of business is located; or</li> <li>(c) the country of nationality of a majority of the Consultant's shareholders; or</li> <li>(d) the country of nationality of the Sub-consultants concerned, where the dispute involves a subcontract.</li> </ol> </li> </ol>



*Signature*  
State Project Director  
ARIAS Society



#### IV. Appendices

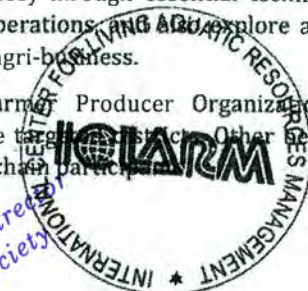
##### APPENDIX A – TERMS OF REFERENCE

##### **for Technical Consultancy support services by WorldFish during implementation phase APART**

#### 1. BACKGROUND:

- a) Government of Assam (GoA), through the Government of India has received a loan of US\$200 million from the World Bank (WB) for implementation of the proposed Assam Agribusiness and Rural Transformation Project (APART). The Project Development Objective (PDO) of APART is to **'add value and improve resilience of selected agriculture value chains, focusing on smallholder farmers and agro-entrepreneurs in targeted districts of Assam.'**
- b) The project will achieve the proposed PDO by: (i) promoting investments in agri-enterprises, reducing the business and transaction costs, facilitating access to finance for agribusiness entrepreneurs, and, where appropriate, push for process, regulatory and/or policy change; (ii) supporting the development of a modern agri-supply chain; improved information communication technologies (ICT) based farm information and intelligence services, and alternative marketing channels; and (iii) improving producers' access to knowledge, technologies and infrastructure so that they are able to respond to market opportunities and climate variability.
- c) There are 4 (four) components to the APART. **The first component (Component - A) is 'Support to Agri- enterprise Development'**, with sub-components being (i) enhancing the State's capacity to attract private investments, (ii) setting up of an Enterprise Development and Promotion Facility (EDPF), (iii) agribusiness fund support, and (iv) establishing stewardship councils. **The second component (Component - B) is 'Facilitating agro-cluster development'** with the sub-components being (i) support establishment of cluster level industry associations, and (ii) supply chain support. **The third component (Component - C) is 'Fostering Market-led Production and Resilience Enhancement'** with the sub-components being (i) promoting climate resilient technologies and their adoption , (ii) facilitating market linkages through market intelligence and product aggregation, and (iii) facilitating access to and responsible use of financial services. **The fourth component (Component - D) is 'Project Management, Monitoring and Learning'.**
- d) Under Component "C", APART would support, value addition in the production and post-harvest segments of selected agriculture value-chains; facilitate agribusiness investments through inclusive business models that provide opportunities to small farmers as well as stimulate the establishment of new small and medium agribusiness enterprises; and support resilience of agriculture production systems in order to better manage increasing production and commercial risks associated with climate change, in the targeted districts. The project would adopt a cluster strategy within the targeted districts to generate economies of scale; promote vertical and horizontal links between local agricultural enterprises; enable diffusion of innovations; leverage network externalities; and channel public support for services and infrastructure. The project would enable all the value chain participants to develop competitive and innovative products that meet market demands rapidly and successfully.
- e) A key project thrust will be on enhancing agglomeration of producers to improve economies of scale in processing and marketing. APART will leverage the natural resource advantages of the State as well as improve the investment climate. In particular, focus will be on climate resilient market-led production, agribusiness, logistics infrastructure, and MSME finance and insurance. The project will support fish productivity (including value and incomes) through essential technology transfer in production and improved post-harvest and market operations and also explore and pilot possible financing modalities to support entrepreneurship and agri-business.
- f) Project beneficiaries will include fish farmers, Farmer Producer Organizations (FPOs), and entrepreneurs, especially in the MSME segment in the targeted districts. Other beneficiaries would include , Sector Stewardship Councils, and other value chain participants.

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- g) "Fish" has been prioritized for value chain interventions under APART. The major interventions would be Fish Value Chain Development, Climate Resilient Technologies Introduction, Improving Post Harvest management. It also includes increasing access to markets for the fish farmers and other value chain actors. Further it would also include capacity building of Fish Value Chain Actors focusing on cross cutting areas like Gender, Nutrition, taking an inclusive approach.
- h) In the light of this background, ARIAS Society, Govt. of Assam now intends to apply a portion of the loan to commission a consultancy assignment for providing technical support services to the Directorate of Fisheries (DoF), Assam, for the fisheries sub component of APART by WorldFish. The agency is an international, non-profit research organization that harnesses the potential of fisheries and aquaculture to reduce hunger and poverty. WorldFish is a member of CGIAR, a global agriculture research partnership for a food secure future.

## 2. OBJECTIVES:

- a) The main objectives of the assignment are -
  - i) Enable sustainable increases in aquaculture production without creating adverse socio economic or environmental impacts (***Sustainable Intensification of Aquaculture***)
  - ii) Secure and enhance the contribution of small-scale fisheries to food security in Assam (***Increasing Diversity and Productivity of Beels***)
  - iii) Increase the availability, access and consumption of nutrient-rich, safe fish, especially for women of reproductive age, infants and young children (***Improving Fish Value Chains and human nutrition***)
  - iv) Develop and promote climate resilient technologies in support of sustainable aquaculture and small scale fisheries (***Climate resilient/smart aquaculture technologies***)
  - v) Promote gender transformative approaches in support of sustainable aquaculture and beel fisheries in Assam (***Gender transformative approaches in aquaculture***)
  - vi) Providing technical support to the Directorate of Fisheries (DoF) and College of Fisheries (COF) for the implementation of the fisheries component of the project,
  - vii) Facilitating skill development and upgradation of the fisheries value chain participants.

## 3. SCOPE OF THE ASSIGNMENT AND THE TASKS TO BE CARRIED OUT BY THE CONSULTANT:

- a) WorldFish should provide technical support services **along with Exit Strategies for each deliverable** to the Directorate of Fisheries (DoF) Government of Assam and College of Fisheries (AAU), and ARIAS Society in the following -
  - i) ***prioritizing high yielding fish strains and indigenous/traditional fish species*** unique to the state, which have inherent social, economic or dietary advantages in promoting their development and for which Assam has a comparative advantage with rich market potential;
  - ii) ***post-harvest management and value addition***-post-harvest interventions such as better grading systems, preservation, packaging systems, transportation, processing, etc., to reduce/minimize post-harvest losses, introduction of mechanical aeration for live fish transportation, commissioning of flake ice manufacturing units and their management for maintaining keeping quality of fish during transportation; fish processing in the form of fish drying, preparation of fish pickles, fish balls, fish finger, value addition, etc,
  - iii) ***improving quality and availability of fish seedlings***- through improved brood stock management and establishment of fish multiplication centres and hatcheries and by following the **Better Management Practices (BMP)**;
  - iv) ***promotion and adoption of climate resilient technologies*** for polyculture in pond fisheries, beel fisheries and paddy fish integration systems; This will be done through, among others, organizing demonstrations, exposure visits, capacity building programs on climate resilient practices.
  - v) ***build capacity*** of the Directorate of Fisheries, College of Fisheries (AAU), District Fishery Teams and value chain players (fish farmers, FPOs, traders, etc.) involved in the project at





district/village level through joint learning needs assessment, development of training material, training of trainers, training and institutional strengthening through development of mechanisms for improved coordination, and

- vi) **awareness creation** and dissemination of important developments and important strategies in fish value chain through different extension methods.
- b) The consultancy should cover technical support services in respect of the following broad activities in conformity with the above mentioned specific objectives and as outlined in the Project Implementation Plan (PIP) and Value Chain Development Plan (VCDP) of APART (Fishery Component) for fulfilling the Project Development Objectives (PDO).
  - i) establishment of fish seed multiplication centres,
  - ii) establishment of hatcheries with improved brood stock management programme,
  - iii) novel polyculture demonstrations in pond fisheries,
  - iv) technology demonstration in beel fisheries including species enhancement programme with focus on nutrition rich Small Indigenous Species (SIS) like mola, puti, etc.
  - v) promoting technologies for climate resilient paddy-cum-fish integration,
  - vi) capacity building and exposure visit of farmers and awareness programmes,
  - vii) Assessment and refinement of Package of Practices (PoP) on all fish farming practices.
  - viii) studies on **(i)** Fish Feed value chain, draft ToR at **Annexure-1**; **(ii)** Study on Climate resilient technologies to support pond aquaculture and beel fisheries, draft ToR at **Annexure-2**; and **(iii)** Study on scope and applicability of value addition, marketing and consumption of fish and fish products in Assam, draft ToR at **Annexure-3**.
- c) all other relevant programmes that will facilitate the achievement of the assignment objectives
- d) While extending technical support to the Directorate of Fisheries, Assam and College of Fisheries (AAU), the consultant will focus on the following broad aspects:
  - i) Sustainable intensification of pond aquaculture,
  - ii) Increasing diversity and productivity of beel fisheries with emphasis on conservation and production sustainability,
  - iii) Improving fish value chains, including food safety and post-harvest,
  - iv) Nutrition sensitive production and value chain systems,
  - v) Climate-resilient production and value chain systems,
  - vi) Gender-sensitive production and value chain systems
  - vii) Public and private partnership strengthening,
  - viii) Brood stock management, seed certification and seed quality assurance,
  - ix) Better Management Practices (BMP) to cover general husbandry, pond preparation, water quality management, feed management, disease management, integrated farming systems, harvest and post-harvest handling, transportation and marketing
  - x) Strengthening informal farmers' clusters, societies and other co-operatives for production and marketing of fish from capture and culture fisheries,
  - xi) Use of information and communication tools and working with farmer groups to improve productivity, reduce post-harvest loss, improve fish quality and safety and enhance consumer access to quality fish and fish products,
  - xii) Information and piloting risk management support.
- e) WorldFish would support the implementation of the demonstration targets of the fisheries sub-component of the project till 4<sup>th</sup> year of the APART and would implement an Exit Strategy in the 4<sup>th</sup> year. The target under various demonstration programs is given in the following table and WorldFish would provide **technical advisory support** till 4<sup>th</sup> year of the APART:



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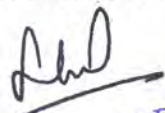


SI	Practice	Design	Species combine	Technical Advisory Support by WorldFish				Yr 5: Exit Strategy**
				Yr1 (ha)	Yr2 (ha)	Yr 3 (ha)	Yr 4 (ha)	
1	i) Polyculture	i	IMC (+) BMP	0	150	175	25	-
		ii	IMC (+) Mola-SIS(+) BMP	0	50	125	125	-
		iii	IMC (+) Mola-SIS (+) Genetically Improved Fish Strains (GIFS) (+) BMP	0	0	0	110	-
	ii) Monoculture	i	GIFS (+) BMP	0	0	0	40	-
	Sub-Total (A)			0	200	300	300	-
2	Paddy-Fish	i	IMC (+) BMP	0	50	75	75	-
		ii	IMC (+) Mola-SIS (+) BMP	0	0	25	75	-
		iii	IMC (+) Mola-SIS (+) GIFS (+) BMP	0	0	0	50	-
	Sub-Total (B)			0	50	100	200	-
3	Beels	i	IMC (+) BMP	0	150	200	200	-
		ii	IMC (+) Mola-SIS (+) BMP	0	50	100	200	-
		iii	IMC (+) Mola-SIS (+) GIFS (+) BMP	0	0	0	100	-
Sub-Total (C)			0	200	300	500	-	
TOTAL DEMONSTRATION AREA/ FARMERS COVERAGE				0	450	700	1000	-

- f) **\*\* Exit Strategy:** For each of the 10 interventions/deliverables identified in the payment matrix and elsewhere in the document, WorldFish will hold strategic discussions with key main line departments, local partners, farmers and fishers, and come up with written exit strategies that will consider embedding the interventions in the ongoing activities of Department of Fisheries, College of Fisheries, Fishermen cooperatives and other agencies so that the activities can continued and sustained beyond 5 years. The exit strategies designed will have implementation plans along with M&E schedules.
- g) WorldFish will maintain concerted effort to work closely with other consultants (including the International agencies hired under the project) and departments in the project, so as to develop common vision on cross cutting areas of gender, nutrition, cropping system approaches, climate resilience practices, diversity, sustainability and market opportunity etc. This aspect should be reflected in the Annual Action Plan and other relevant documents.

#### 4. DELIVERABLES, REPORTS AND PAYMENT SCHEDULE

- a) **REPORTS:** WorldFish will submit the reports/ documents to the Client (i.e. the State Project Director, ARIAS Society and Directorate of Fisheries, Assam) during the assignment period, in both soft (MS word/Excel and PDF versions) as well as hard copies along with summary report to assess the progress against the targets. All the reports and documents shall be in English language. Further, all reports shall be in draft form for discussion with the State Project Director and Director of Fisheries before finalization. A brief description of the deliverables is shown below:
- Inception report** will include detailed work plan, milestones, methodology and resources to be mobilized to accomplish the assignment. The Inception Report shall be submitted within **30** days of signing the contract agreement.
  - Six-Monthly report:** At the end of every six months, a report highlighting the technical support activities carried out during the period as per Log-frame shall be submitted within **21** office working days from the completion of every six months.
  - Mid-Term report**, to be submitted at least **30** days before the visit of World Bank's Mid Term Review Mission, should focus on (a) implementation processes and recommend mid-term corrections, if any, required to achieve the prescribed targets, adjustments in the project design, (b) implementation arrangements to overcome identified bottlenecks and (c) socio-economic analysis, in addition to overall review of the progress of project implementation under different activities and sub-activities, as per the approved action plan covering all deliverables (technical and physical) with suggestions for improvements..
  - Final/ End of Project report** will have to be submitted by the Consultant **45** days before the closure of the consultancy assignment. The report shall include a comprehensive overall assessment of the implementation, impact of the activities on fish productivity, production, improvement of the socio-economic status of the fish farmers, etc..
- b) **Documents required for making payment:** WorldFish will submit six-monthly progress report supported by (i) six-monthly progress report as per the prescribed format agreed with the Client, and (ii) certification from the Director of Fisheries, Assam stating that technical advisory services have been provided as per the targeted deliverables of the contract.
- c) **The deliverables under the assignment are mentioned below**

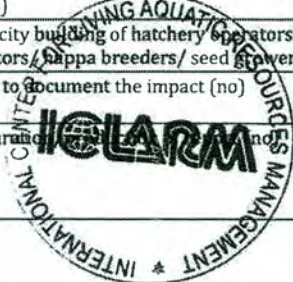
  
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**APART: Payment Schedule for the Contract with WorldFish for  
Technical Advisory Support Assistance to Fisheries Sub-Component against deliverables**

#	Deliverables/ Activity	Unit of Deliverable	Payment Schedule for Technical Advisory Support								Exit Strategy		Total
			Year 1		Year 2		Year 3		Year 4		Year 5		
			1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	
	Deliverable A: Inception Report	No.	1										1
		% Payment	10.00%										10.00%
1	Deliverable 1. Promoting adoption of BMPs for sustainable intensification of aquaculture		0.50%	2.00%	1.50%	0.50%	0.00%	0.00%	0.00%	0.00%	0.25%	0.25%	5.00%
1.1	Activity 1: Analysis of current practices (no)	No.	1										1
		% Payment	0.50%										0.50%
1.2	Activity 2: Organising workshop for sensitization of PIU officers (no)	No.		2	2	1							5
		% Payment		1.00%	1.00%	0.50%							2.50%
1.3	Activity 3: Designing technical plans for taking up demonstrations for application of BMPs for doubling fish production (no)	No.		1									1
		Payment		0.50%									0.50%
1.4	Activity 4: Demonstration for application of BMPs for doubling fish production (no)	No.		1									1
		% Payment		0.50%									0.50%
1.5	Activity 5: Development of scaling up approach for wider dissemination of BMPs (no)	No.			1								1
		% Payment			0.50%								0.50%
1.6	Activity 6: M&E of technical demo programs (%)	%									1		1
		% Payment									0.25%		0.25%
1.7	Activity 7: Preparation of technical reports (no)	No.										1	1
		% Payment										0.25%	0.25%
2	Deliverable 2: Up-gradation of Existing Indian major carp hatcheries to produce certified seed		0.50%	0.50%	2.00%	0.50%	1.75%	0.75%	1.00%	1.00%	0.25%	0.25%	8.50%
2.1	Activity 1: Baseline survey (no)	No.	1										1
		% Payment	0.25%										0.25%
2.2	Activity 2: Development of up-gradation plan for hatcheries (no)	No.		2	3								5
		% Payment		0.50%	0.75%								1.25%
2.3	Activity 3: Preparation of Guidelines for identification of sources of quality brood stock & site visits (no)	No.	1										1
		% Payment	0.25%										0.25%
2.4	Activity 4: Up-gradation of hatcheries & its operationalisation (no)	No.			2		3						5
		% Payment			0.50%		0.75%						1.25%
	Activity 5: Development of scientific breeding programme & its up-date (no)	No.			1		1						2
		% Payment			0.25%		0.25%						0.50%
2.6	Activity 6: Development SOPs, BMPs, quality assurance programme (no)	No.			1								1
		% Payment			0.25%								0.25%
2.7	Activity 7: Capacity building of hatchery operators (no of hatchery operators/ Sappa breeders/ seed growers)-(no)	No.			75	125	250	250	300	300			1300
		% Payment			0.25%	0.50%	0.75%	0.75%	1.00%	1.00%			4.25%
2.8	Activity 8: M&E to document the impact (no)	No.									1		1
		% Payment									0.25%		0.25%
2.9	Activity 9: Preparation of final report (no)	No.										1	1
		% Payment										0.25%	0.25%

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#	Deliverables/ Activity	Unit of Deliverable	Payment Schedule for Technical Advisory Support								Exit Strategy		Total
			Year 1		Year 2		Year 3		Year 4		Year 5		
			1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	
3	<b>Deliverable 3: Multiplication Centres (MCs) for genetically improved fish strains</b>		0.25%	0.75%	0.25%	1.50%	0.75%	0.25%	0.00%	0.00%	0.50%	0.75%	5.00%
3.1	Activity 1: Design survey format and share with DoF to assess demand for genetically improved fish seed (no)	No.		1									1
		% Payment		0.20%									0.20%
3.2	Activity 2: FGDs to understand the demand for genetically improved fish seed in Assam (no)	No.		1									1
		% Payment		0.30%									0.30%
3.3	Activity 3: Selection of public seed farms, technical designing of biosecure hatcheries (no)	No.	2	2									4
		% Payment	0.25%	0.25%									0.50%
3.4	Activity 4: Setting up of bio-secure hatcheries/ infrastructures (no)	No.			1	3							4
		% Payment			0.25%	0.75%							1.00%
3.5	Activity 5: Commissioning of hatcheries/ operationalization (no)	No.			1	3							4
		% Payment			0.25%	0.75%							1.00%
3.6	Activity 6: Development of technical reading material/ manual & its up-dating (no)	No.			1							1	2
		% Payment			0.25%							0.25%	0.50%
3.7	Activity 7: Development of SOPs, BMPs and mating programs for the hatcheries for producing quality seed of genetically improved strains (including certification) (no)	No.			1						1		2
		% Payment			0.25%						0.25%		0.50%
3.8	Activity 8: Procurement of genetically improved strains (eg., GIFT, Jayanti rohu) from Rajiv Gandhi Centre for Aquaculture (RGCA) of MPEDA, Central Institute of Freshwater Aquaculture (CIFA), ICAR (as per Farm capacity)	No.											0
		% Payment											0.00%
3.9	Activity 9: Preparation of BMP manual for adoption of genetically improved fish strains by farmers (no)	No.					1					1	2
		% Payment					0.25%					0.25%	0.50%
3.1	Activity 10: M&E to document the impact (no)	No.									1		1
		% Payment									0.25%		0.25%
3.1	Activity 11: Preparation/ production of report (no)	No.										1	1
		% Payment										0.25%	0.25%
4.0	<b>Deliverable 4: Improving productivity of beels</b>		0.25%	0.15%	1.60%	1.50%	1.25%	2.00%	0.00%	1.50%	0.50%	0.50%	9.25%
4.1	Activity 1: Identification of beel fisheries for project intervention (no)	No.	20		50		77						147
		% Payment	0.25%		0.50%		0.75%						1.50%
4.2	Activity 2: Community mobilization and formation of Beel Development and Management Committee (BDMC) (no)	No.		15	35	50	47						147
		% Payment		0.15%	0.35%	0.50%	0.50%						1.50%
4.3	Activity 3: Development of FGD guidelines and beel governance mechanisms (no)	No.			1								1
		% Payment			0.25%								0.25%
4.4	Activity 4: Formulation of scientific interventions strategy, SOP, better management practices & its up-dating (no)	No.			1		1				1		3
		% Payment			0.25%		0.25%				0.25%		0.75%
4.5	Activity 5: Development of technical training manual & its up-dating (no)	No.			1		1					1	3
		% Payment			0.25%		0.25%					0.25%	0.75%
4.6	Activity 6: Demonstration of scientific interventions (no/ha)	No./ha				13 (200)	20 (300)		33 (500)				0
		% Payment				1.00%	1.00%		1.50%				3.50%
4.7	Activity 7: M&E to document the impact (no)	%									1		1
		% Payment									0.25%		0.25%
4.8	Activity 8: Strategy formulation for scaling up operation	No.					1						1



#	Deliverables/ Activity	Unit of Deliverable	Payment Schedule for Technical Advisory Support								Exit Strategy		Total
			Year 1		Year2		Year 3		Year 4		Year 5		
			1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	
	(no)	% Payment						0.25%					0.25%
4.9	Activity 9: Preparation of technical report & submission	No.						1				1	2
		% Payment						0.25%				0.25%	0.50%
5	<b>Deliverable 5: Improving Fish Value Chains</b>		0.00%	0.25%	1.00%	0.00%	1.25%	0.00%	1.50%	0.00%	0.00%	0.25%	4.25%
5.1	Activity 1: Fish value chain analysis to identify opportunities to enhance efficiency of value chains (no)	No.		1									1
		% Payment		0.25%									0.25%
5.2	Activity 2: Fish Feed Value Chain Study [Annex-1 of TOR]	No.			1								1
		% Payment			0.50%								0.50%
5.3	Activity 3: Developing strategies for increasing benefits to fish producers, consumers and small enterprises associated with production, processing, food safety and marketing of fish	No.			1								1
		% Payment			0.50%								0.50%
5.4	Activity 4: Support to service providers in establishment and operationalization of farmer producer organizations (FPOs) and common service centers (CSCs)	No.					3		5				8
		% Payment					1.25%		1.50%				2.75%
5.5	Activity 5: Technical reports and publications	No.										1	1
		% Payment										0.25%	0.25%
6	<b>Deliverable 6: Carp-Mola polyculture</b>		0.00%	0.50%	2.00%	2.00%	0.50%	1.75%	1.25%	1.50%	0.75%	0.50%	10.75%
6.1	Activity 1: Sensitization of stakeholders through FGD (no)	No.		1	2	2			3	2			10
		% Payment		0.25%	0.50%	0.50%			0.75%	0.50%			2.50%
6.2	Activity 2: Development of TOT manual for DoF & CoF officials (no)	No.		1									1
		% Payment		0.25%									0.25%
6.3	Activity 3: Conduct TOT (no)	No.			50	50	50	50	50	50	50		350
		% Payment			0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%		3.50%
6.4	Activity 4: Setting up carp-mola/ SIS broodfish programme (no)	No.			1								1
		% Payment			1.00%								1.00%
6.5	Activity 5: Demonstration (no) of POP and BMPs for carp-mola/SIS polyculture farming systems	No.			150								150
		% Payment			1.00%								1.00%
6.6	Activity 6: M&E to document the impact (no)	No.									1		1
		% Payment									0.25%		0.25%
6.7	Activity 7: Designing strategy for scaling up operation (no)	No.										1	1
		% Payment										0.25%	0.25%
6.8	Activity 8: Scaling up demonstrations (no)	No.						525		375			900
		% Payment						1.00%		0.50%			1.50%
6.9	Activity 9: Technical report and study report preparation (no)	No.						1				1	2
		% Payment						0.25%				0.25%	0.50%
7	<b>Deliverable 7: Improving impact of aquaculture and beel fisheries on human nutrition</b>		0.00%	0.00%	0.50%	0.50%	1.25%	2.25%	1.50%	1.50%	0.25%	0.25%	8.00%
7.1	Activity 1: ) Study on the applicability of value addition, marketing and fish products in Assam (no) [Annex 3 to TOR]	No.			1								1
		% Payment			0.50%								0.50%
7.2	Activity 2: Stakeholder mapping exercises for identification of development partners promoting human	No.			1								1
		% Payment			0.25%								0.25%



#	Deliverables/ Activity	Unit of Deliverable	Payment Schedule for Technical Advisory Support								Exit Strategy		Total
			Year 1		Year2		Year 3		Year 4		Year 5		
			1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	
	nutrition (no)												
7.3	Activity-3: Demonstration on nutrition sensitive aquaculture and beel fisheries programs (no)	No.						50				50	
		% Payment						0.25%				0.25%	
7.4	Activity 4: Development of “first 1000 days” nutrition programs through inclusion of fish and fish products in diets & development of nutrition education programs (no)	No.					1					1	
		% Payment					0.50%					0.50%	
7.5	Activity 5: Piloting development of affordable nutritious fresh fish and fish based products (no)	No.					1					1	
		% Payment					0.25%					0.25%	
7.6	Activity 6: Capacity building of identified stakeholders for nutrition programme activities (no)	No.					50	75	50	50		225	
		% Payment					0.50%	0.75%	0.50%	0.50%		2.25%	
7.7	Activity 7: Demonstration on production of affordable nutritious fresh fish and fish based products (units)	No.						5		4		9	
		% Payment						0.25%		0.25%		0.50%	
7.8	Activity 8: Development of module for social behavior change approaches to increase consumption of nutritious fish (no)	No.						1				1	
		% Payment						0.25%				0.25%	
7.9	Activity 9: Workshop on social behaviour change to increase consumption of nutritious fish (no)	No.					2		3			5	
		% Payment					0.50%		0.75%			1.25%	
7.10	Activity 10: Demonstration on nutrition sensitive aquaculture programme (no)	No.			150		300		330			780	
		% Payment			0.25%		0.50%		0.75%			1.50%	
7.11	Activity 11: M&E to document the impact (no)	No.								1		1	
		% Payment								0.25%		0.25%	
7.12	Activity 12: Technical reports and science report preparation (no)	No.									1	1	
		% Payment									0.25%	0.25%	
8	<b>Deliverable 8: Promoting climate resilient smart fish production technologies</b>		1.00%	1.00%	0.00%	0.80%	0.00%	2.00%	0.00%	1.60%	0.25%	0.50%	7.15%
8.1	Activity 1: Study of Climate Resilient Technologies/ Practices to Support Pond Aquaculture and Beel Fisheries(no) [Anex-2 of TOR]	No.	1									1	
		% Payment	1.00%									1.00%	
8.2	Activity 2:Workshops (no) on existing climate resilient practices adopted by farmers	No.		1								1	
		Payment		0.50%								0.50%	
8.3	Activity 3: Formulation of strategies on different climate smart/resilient aquaculture production technologies and farming systems (no)	No.		1								1	
		% Payment		0.25%								0.25%	
8.4	Activity 4: Discussion with IRRI to finalize detailed technological issues on rice-fish farming for demo. programme	No.		1								1	
		% Payment		0.25%								0.25%	
8.5	Activity 5: Demonstration (no) on rice-fish integrated farming systems	No.			150		300		600			1050	
		% Payment			0.15%		0.25%		0.50%			0.90%	
8.6	Activity 6: Demonstration (no) of monoculture (M) and poly-culture (P) of genetically improved fish strains	No.							M-120			0	
		% Payment										0.00%	
		No.			P-600		P-900		P-780			0	
		% Payment			0.50%		1.00%		0.75%			2.25%	
8.7	Activity 7: Demonstration (no) of small indigenous fishes	No.			150		525		375			1050	



#	Deliverables/ Activity	Unit of Deliverable	Payment Schedule for Technical Advisory Support								Exit Strategy		Total
			Year 1		Year2		Year 3		Year 4		Year 5		
			1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	
	with carp culture	% Payment				0.15%		0.50%		0.35%			1.00%
8.8	Activity 8: Refinement of PoPs (no incl. all practices)	No.									1		1
		% Payment									0.25%		0.25%
8.9	Activity 9: M&E to document the impact (no)	No.									1		1
		% Payment									0.25%		0.25%
8.10	Activity 10: Technical Reports and Science report preparation (no)	No.					1					1	2
		% Payment					0.25%					0.25%	0.50%
9	<b>Deliverable 9: Gender transformative approaches in support of sustainable aquaculture and beel fisheries</b>		0%	0%	0.50%	0.85%	0%	0.50%	0%	0.75%	0.25%	0.25%	3.10%
9.1	Activity 1: Review of literature to understand the current role of women and youth in fisheries and aquaculture sector in Assam and assess the challenges and opportunities for them to play a key role in the sector development (no)	No.			1								1
		% Payment			0.50%								0.50%
9.2	Activity 2: Workshop of key stakeholder groups to understand the current role of women and youth in fisheries and aquaculture sector and role in the sector development (no)	No.				1							1
		% Payment				0.50%							0.50%
9.3	Activity 3: Demonstration of integration strategy and GTA in pond and beel fisheries activities (no. of women beneficiaries)	No.				825		1260		1950			4035
		% Payment				0.35%		0.50%		0.75%			1.60%
9.4	Activity 4: M&E to document the impact (no)	No.									1		1
		% Payment									0.25%		0.25%
9.5	Activity 5: Technical reports and science report preparation (no)	No.										1	1
		% Payment										0.25%	0.25%
10	<b>Deliverable 10: Capacity building of DoF Officers</b>		3.25%	4.50%	3.00%	3.00%	3.25%	3.50%	3.25%	3.25%	2.00%	0%	29.00%
10.1	Activity 1: (1) Designing capacity building programs/ training module/prepare training literature for DOF officers on (a) BMPs for sustainable intensification of aquaculture (b) carp-mola/SIS polyculture (c) climate resilient aquaculture (d) post harvest technologies (e) value addition (f) food safety issues (no)	No.		1									1
		% Payment		3.50%									3.50%
10.2	Activity 2: Conducting training & exposure visit of officers (no. of officers)	No.			50	50	50	50	50	50	50		350
		% Payment			2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%		14.00%
10.3	Activity 3: Designing capacity building programme/ preparation of training module/ literature for training & exposure of farmers/ fishers (no)	No.	1										1
		% Payment	3.00%										3.00%
10.4	Activity 4: Conducting training & exposure visit of farmers/ fishers/hatchery operators/ seed growers/ fish processors/ market players (by CoF)	No.	350	1000	1000	1150	1300	1500	1200	1230			8730
		% Payment	0.25%	1.00%	1.00%	1.00%	1.25%	1.50%	1.25%	1.25%			8.50%
	<b>Total % of half yearly payments out of the Grand Total Payment</b>		15.75%	9.65%	12.35%	11.15%	10.00%	13.00%	8.50%	11.10%	5.00%	3.50%	100.00%





### Summary of Payment against Deliverables

APART: Summary of Payment Schedule for the Contract with WorldFish for Technical Assistance to Fisheries Sub-Component												
#	Deliverables	Payment Schedule for Technical Advisory Support								Exit Strategy		% payment out of Total Contract price
		Year 1		Year2		Year 3		Year 4		Year 5		
		1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	
1	Deliverable A: Inception Report	10.00%										10.00%
2	Deliverable 1: Promoting adoption of BMPs for sustainable intensification of aquaculture	0.50%	2.00%	1.50%	0.50%	0.00%	0.00%	0.00%	0.00%	0.25%	0.25%	5.00%
3	Deliverable 2: Up-gradation of Existing Indian major carp hatcheries to produce certified seed	0.50%	0.50%	2.00%	0.50%	1.75%	0.75%	1.00%	1.00%	0.25%	0.25%	8.50%
4	Deliverable 3: Multiplication Centres (MCs) for genetically improved fish strains	0.25%	0.75%	0.25%	1.50%	0.75%	0.25%	0.00%	0.00%	0.50%	0.75%	5.00%
5	Deliverable 4: Improving productivity of beels	0.25%	0.15%	1.60%	1.50%	1.25%	2.00%	0.00%	1.50%	0.50%	0.50%	9.25%
6	Deliverable 5: Improving Fish Value Chains	0.00%	0.25%	1.00%	0.00%	1.25%	0.00%	1.50%	0.00%	0.00%	0.25%	4.25%
7	Deliverable 6: Carp-Mola polyculture	0.00%	0.50%	2.00%	2.00%	0.50%	1.75%	1.25%	1.50%	0.75%	0.50%	10.75%
8	Deliverable 7: Improving impact of aquaculture and beel fisheries on human nutrition	0.00%	0.00%	0.50%	0.50%	1.25%	2.25%	1.50%	1.50%	0.25%	0.25%	8.00%
9	Deliverable 8: Promoting climate resilient smart fish production technologies	1.00%	1.00%	0.00%	0.80%	0.00%	2.00%	0.00%	1.60%	0.25%	0.50%	7.15%
10	Deliverable 9: Gender transformative approaches in support of sustainable aquaculture and beel fisheries	0.00%	0.00%	0.50%	0.85%	0.00%	0.50%	0.00%	0.75%	0.25%	0.25%	3.10%
11	Deliverable 10: Capacity building of DoF Officers	3.25%	4.50%	3.00%	3.00%	3.25%	3.50%	3.25%	3.25%	2.00%	0.00%	29.00%
Total % of half yearly payments out of the Grand Total Payment		15.75%	9.65%	12.35%	11.15%	10.00%	13.00%	8.50%	11.10%	5.00%	3.50%	100.00%
Total yearly payments US\$		269,926		249,734		244,421		208,289		90,329		1,062,699

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## 5. QUALIFICATIONS & EXPERIENCE OF WORLDFISH TEAM MEMBERS:

- a) The qualification and expertise of the key Team members of the organization for the technical support services are desired as follows:

#	Key specialists	Qualification & expertise desired
1	Team Leader, Sustainable aquaculture Specialist	<ul style="list-style-type: none"> <li>Ph.D. degree or equivalent in relevant field;</li> <li>Experience in coordinating and implementing sustainable aquaculture programmes at international level in more than one country as a Team Leader and leadership in fisheries related R &amp; D</li> </ul>
2	Fish Genetics Expert	<ul style="list-style-type: none"> <li>Ph.D. degree or equivalent in relevant field;</li> <li>Expertise in genetic improvement discipline</li> </ul>
3	Fish Value Chains and Nutrition Expert	<ul style="list-style-type: none"> <li>Ph.D. degree or equivalent in relevant field;</li> <li>Expertise in designing and implementation of fish value chain, nutrition and livelihood programmes</li> </ul>
4	Flood plain wetland Management Expert	<ul style="list-style-type: none"> <li>Ph.D. degree or equivalent in relevant field;</li> <li>Expertise in community based fish culture in beel fisheries, Gender issues in pond fish production with focus on household nutrition, technology demonstration in beel fisheries with focus on nutrient rich small indigenous fish like mola, carp mola production in ponds and beel fisheries</li> </ul>
5	Fish Breeding Expert	<ul style="list-style-type: none"> <li>Ph.D. degree or equivalent in relevant field;</li> <li>Hands-on expertise in breeding and rearing of improved fish strains (culturable Indian &amp; exotic carps and GIFT Tilapia), hatchery management and related fields</li> </ul>
6	Integrated agriculture-aquaculture systems	<ul style="list-style-type: none"> <li>Ph.D. degree or equivalent in relevant field;</li> <li>Hands-on expertise in Integrated agriculture- aquaculture (IAA) farming systems and aquatic resources management</li> </ul>
7	Environmental Management Expert	<ul style="list-style-type: none"> <li>Ph. D. Environmental science</li> <li>Exp in environmental management</li> </ul>
8	GIS/ RS Specialist	<ul style="list-style-type: none"> <li>M.Sc. (Information Technology) or equivalent degree,</li> <li>Experience in spatial planning, site assessment, zoning and area management, mapping &amp; analyze environment and eco-systems</li> </ul>
9	Gender Expert	CV of Dr. Cynthia requested on 5 <sup>th</sup> Dec. 2017

- b) Team Members, time input/period of engagement (Year 5 is for implementing Exit Strategy by WorldFish)

#	Name and Functional Title	Area of Expertise	Position Assigned	Time input (Days)					Total (Days)
				Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	
1	Michael J Philips, Director of Aquaculture & Fisheries Sciences	Aquaculture	International Expert	3.5	4	3.5	4	1	16
2	Chadag V Mohan, Aquaculture Senior Scientist	Aquaculture	International Expert	24.5	24.5	24.5	24.5	12	110
3	Benoy Kr. Barman, Small Scale Fisheries Sr. Scientist	Small Scale Fisheries	International Expert	15	15	15	15	5	65
4	Jharendu Pant, Aquaculture Systems Sr. Scientist	Aquaculture Systems	International Expert	24.5	24.5	24.5	24.5	12	110
5	Shakuntala Thilsted, Research Program Leader, Value Chains and Nutrition	Nutrition	International Expert	24.5	24.5	24.5	24.5	12	110
6	Cynthia McDougall, Gender & Youth Sr. Scientist	Gender & Youth	International Expert	7.5	7.5	7.5	7.5	5	35
7	Arun Padiyar, Value Chain & Market Scientist (WorldFish Consultant)	Value Chain & Marketing	International Expert	15	15	15	15	11	71
8	Shweta Mekkaw, Genetics Scientist	Genetics	International Expert	7	7	7	7	4	32
9	Shwu Jiau, GIS and Database Expert	GIS	International Expert	15	15	15	15	8	68
10	Sharon Suri, Project Coordinator	Project Management	International Expert	15	15	15	15	11	71
11	TBR: Resident Consultant	Project Management	National Expert	264	264	264	264	132	1,188



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c) Job Description of the Key & Non Key Staff:

#	Name and Functional Title	Area of Expertise	Position Assigned	Job description under the consultancy assignment in detail
<b>Key Experts</b>				
1	Michael J Philips, Director of Aquaculture & Fisheries Sciences	Aquaculture	International Expert	<ul style="list-style-type: none"> <li>Overall guidance and technical inputs in promoting adoption of responsible and sustainable aquaculture and small scale fisheries in Assam</li> <li>Institutional capacity building and policy support</li> </ul>
2	Chadag V Mohan, Aquaculture Senior Scientist	Aquaculture	Team Leader International Expert	<ul style="list-style-type: none"> <li>Project coordination and implementation</li> <li>Technical inputs for fish agri-food systems approach</li> <li>Sustainable intensification of aquaculture</li> <li>Aquatic animal health management</li> <li>Farmer groups and cluster management</li> <li>Better management practices</li> </ul>
3	Benoy Kr. Barman, Small Scale Fisheries Sr. Scientist	Small Scale Fisheries	International Expert	<ul style="list-style-type: none"> <li>Small scale fisheries</li> <li>Flood plain fisheries</li> <li>Beel fisheries, conservation</li> <li>Integration of food production systems</li> <li>Carp-mola polyculture</li> <li>Carp breeding and hatcheries</li> <li>Carp aquaculture</li> <li>Fish value chains</li> </ul>
4	Jharendu Pant, Aquaculture Systems Sr. Scientist	Aquaculture Systems	International Expert	<ul style="list-style-type: none"> <li>Optimization of systems approach for better aquaculture productivity</li> <li>Carp and tilapia farming technology</li> <li>GIFT hatcheries and breeding programs</li> <li>Polyculture technologies</li> <li>Climate resilient technologies study (annex 2)</li> </ul>
5	Shakuntala Thilsted, Research Program Leader, Value Chain and Nutrition	Nutrition	International Expert	<ul style="list-style-type: none"> <li>Fish value chains</li> <li>Role of fish in human nutrition</li> <li>Nutrient dense fish farming and utilization</li> <li>Conservation of SIS</li> <li>Development and testing of fish products for human consumption</li> <li>First 1000 days program</li> <li>Fish products, value addition and consumption study (annex 3)</li> </ul>
6	Cynthia McDougall, Gender & Youth Sr. Scientist	Gender & Youth	International Expert	<ul style="list-style-type: none"> <li>Gender transformative approaches for aquaculture and fisheries</li> <li>Gender integration</li> <li>Development of inclusive strategies for fisheries development</li> <li>Capacity building and participatory action research</li> </ul>
7	Arun Padiyar, Value Chain & Market (WorldFish Consultant)	Value Chain & Marketing	International Expert	<ul style="list-style-type: none"> <li>Sustainable aquaculture</li> <li>Fish value chains and marketing</li> <li>Developing niche markets</li> <li>Market assessments and projections</li> <li>Fish feed value chain study (annex 1)</li> </ul>
8	Wagdy Mekkaoui, Genetics	Genetics	International Expert	<ul style="list-style-type: none"> <li>Population geneticist</li> <li>Carp and tilapia genetic improvement programs</li> <li>Carp and tilapia breeding programs</li> <li>Setting up breeding platforms</li> <li>M&amp;E</li> </ul>
9	Shwu Bai, GIS	GIS	International	<ul style="list-style-type: none"> <li>GIS and data base development</li> </ul>





#	Name and Functional Title	Area of Expertise	Position Assigned	Job description under the consultancy assignment in detail
	GIS and Database Expert		Expert	<ul style="list-style-type: none"> <li>• Aquaculture planning and management</li> <li>• Aquaculture suitability analysis</li> <li>• Mapping resources for fisheries and aquaculture</li> <li>• Big database and data analysis</li> <li>• M&amp;E</li> </ul>
<b>Non-Key experts</b>				
10	Sharon Suri, Project Coordinator	Project Management	International Expert	<ul style="list-style-type: none"> <li>• Coordination of Admin, financial and technical matters as related to international technical experts</li> <li>• Compilation of reports</li> <li>• Preparation of WorldFish reports for submission to APART</li> </ul>
11	TBR: Resident Consultant	Project Management	National Expert	<ul style="list-style-type: none"> <li>• Full time provision of technical assistance to DOF and COF</li> <li>• Coordination and relay of inputs from technical experts to ARIAS, DOF and COF</li> <li>• Coordination and relay of inputs from ARIAS, DOF and COF back to WorldFish experts</li> <li>• Technical support on a full time basis including M&amp;E</li> </ul>

6. **DURATION OF ASSIGNMENT:** The Consultant's services shall commence with effect from the date of effectiveness of the contract agreement. The consultancy would be for a period of total **60** months of which, **48** months will be for Technical Advisory Support and **12** months for implementing Exit Strategy, subject to the timely achievement of targeted activities by the Consultant, and unless terminated pursuant to the contract provisions.

7. **SERVICES AND FACILITIES TO BE PROVIDED BY THE CLIENT:**

- Provide access to all relevant documents like Annual Work Plan (AWP), correspondences, information associated with the assignment and available with the ARIAS Society and the Directorate of Fisheries, Govt. of Assam.
- Liaising and co-ordination with Directorate of Fisheries, Assam; and other stakeholders will be ensured.
- The client shall facilitate an effective working space as a common platform for all the CGIAR and other International Agencies to be engaged in APART at Guwahati. This shall be supported by the client along with basic amenities and support staffs. This has been strategized to achieve seamless coordination amongst the agencies
- The salary of National Technical Experts, National Field Assistants and National Office Staff, cost of local transportation, local training, FGD, meetings and workshops shall be the responsibility of the client. **However, other logistic support like international and local travel of WorldFish experts, project office operating expenses, WorldFish technical expert's facilities and MIS costs shall be the sole responsibility of WorldFish.**
- While the role of WorldFish shall be in terms of technical advisory support to the implementing partners in achieving the project targets, the Directorate of Fisheries shall be the main project implementation agency, the College of Fisheries (AAU), Raha shall be the agency for providing training support and exposure visit for fish farmers and the ARIAS Society shall be the main coordinating agency for the project.**

*[Signature]*  
State Project Director  
ARIAS Society



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**Annex-1:**  
**Terms of Reference (ToR)**  
**for**  
**FISH FEED VALUE CHAIN STUDY**

**1. BACK GROUND**

- a) Quality Fish Seed and Fish Feed are the two most important inputs that determine the level of production from a unit water area. In finfish aquaculture system fish feed constitutes about 60-70% of total recurring cost. Traditionally fish farmers of the state have been practicing extensive culture system with no or little feed resulting in very low productivity. Application of fish feed has increased substantially during last couple of years in the state due to gradual shift from extensive low-input culture system to mostly semi-intensive system. Mostly rice bran/polish and de-oiled mustard cake have been used as feed. During last few years although many fish farmers shifted towards formulated mesh feed, sporadic availability, price and accountability on quality of feed seems to put a question mark on its large scale adoption. However, some progressive fish farmers have even adopted intensive, feed dependent aquaculture systems with feed from different sources. Success of different government programmes and especially AACP intervention in productivity increase in farm ponds has motivated many farmers to practice input based fish culture with higher production.
- b) Outcome of these factors combined together resulted in increased demand for commercial fish feeds. Rapid growth in use of formulated feeds has helped many fish farmers to intensify production, but at the same time has raised a number of issues including feed quality, feed management efficiency and environmental sustainability. The aquaculture feed value chain has not been mapped, the key players have not been clearly identified or characterized and the value chain performance is not well understood in the context of the demand-supply-availability of raw materials and finished product (mesh/pellet feed) etc.

**2. OBJECTIVES:** The specific objectives of the consultancy assignment are:

- a) To provide a critical analysis of the existing fish feed value chain of Assam (APART prioritized districts),
- b) Design and implement a robust strategy for addressing the critical gaps in the value chain while addressing the latent opportunities,
- c) Design and implement a time lined strategy for enhancing the value realization of the stakeholders on a value versus volume basis,
- d) Provide a strategic business plan for the FPOs

**3. SCOPE OF THE ASSIGNMENT & TASKS TO BE CARRIED OUT BY THE CONSULTANT:** The scope of the assignment and the tasks include the following:

- a) map the entire fish feed supply chain starting from input supply for raw materials, chain intermediaries, and end consumers, covering the geographical areas representing the entire state with emphasis on the project districts (APART) and the areas where fish feed production units/plants are located or there is a potential for setting up these plants, through critical analysis of the supply chain through SWOT/PESTEL analysis.
- b) map the entire major raw material supply chain including assessment of the sources of raw materials for fish feed and their availability (quality and quantity) of these raw materials focusing on cost of production, price trends, production trends, quality, quantity available v/s demand etc.
- c) Study & mapping of entire value chain intermediaries like producers, aggregators, primary processors, traders, commission agents, processors, C&F agents, stockiest/distributors, retailers etc, vis-à-vis price mark up at each step of value chain, gross and net margins of each value chain player.
- d) Study of support service providers to the fish feed value chain like transporters, storage space providers, financing agencies, etc, and also how the financial needs of value chain players are being met, highlighting the challenges, if any.
- e) Assess the quality of fish feed traditionally used by the farmers and its availability in the market/produced in the state.

  
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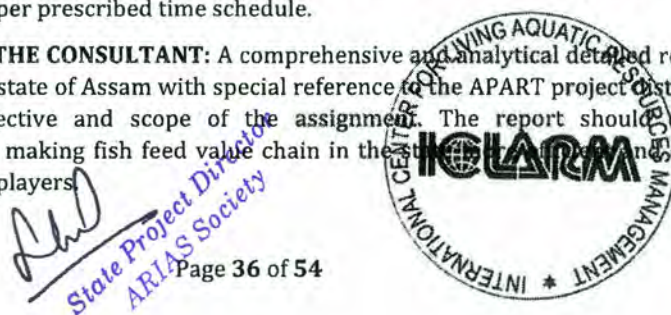




- f) Strategic approach in filling up the gaps at different levels in the supply chain and harness the potential and opportunities.
- g) Time line approach in value realization and its enhancement by each stakeholder involved in the whole process right from producers of raw materials to retailers and ultimate consumers (fish farmers) of feed locally produced in the state and from importers of feed to fish producers in case of feed imported from other states.
- h) Assess quality of locally produced raw materials, its value vs. quality; and quantity available against actual requirement to meet state's requirement of the raw materials for production of formulated feed, steps required to meet deficiency of raw materials, if any;
- i) Make a comparison of economic viability between commercially available fish feed produced locally and brought from other states.
- j) Analyze the demand for fish feed by types in the state,
- k) Suggest ways to improve the quality of fish feed for the prevailing production systems and ways to reduce feed wastage and improve feeding efficiencies and how waste can be utilized effectively.
- l) Spell out the feasibility of setting up fish feed plants in the state and if these are feasible, their scale, capacity, requirements, possible locations, etc.
- m) Provide a value chain map clearly showing actors, activities, support services & their providers, channels of material and information flow and the quantum of material flowing through each channel, price mark up etc. A statement of gaps in the value chain and strategies on how these gaps can be plugged to make the value chain more efficient.
- n) An analysis of how fish feed value chain is related to & influences other sectors of State economy and how these interconnections can be leveraged for optimizing the value chain efficiency.

#### 4. METHODOLOGIES

- a) The assessment shall be carried out essentially through Focus Group Discussions (FGDs), in-depth interviews with individuals and key informants including major raw material(s) producers, through structured and semi-structured questionnaires to collect information from different stakeholders along the value chain and also by conducting stakeholders workshops (if required),
  - b) The study shall encompass (a) feed mills under private sector and state owned/ public sector ownership (b) fish farmers of all categories - from small to large including commercial fish farmers of different age groups, their demographic information, socio-economic status, etc., (c) different production systems like semi intensive/intensive and integrated farming/ aquaculture systems and value chain intermediaries.
  - c) Summarized information from each actor is to be validated by backward and forward value chain linkages,
  - d) Secondary information collected from various sources (specifically mentioning the sources of information be reviewed and analysed,
  - e) Analysis of feed cycle to understand the environmental dimensions including probable impact within Assam,
  - f) The final interpretation of the data need to be statistically validated for drawing inferences, wherever necessary.
5. **CONSULTANCY PERIOD:** The study shall be completed within the first year of effectiveness of the contract. Since time is the essence of this assignment, it is expected that there will be no delay in conducting the study and submission of reports as per prescribed time schedule.
6. **EXPECTED OUTPUT FROM THE CONSULTANT:** A comprehensive and analytical detailed report on fish feed value chain pertaining to the state of Assam with special reference to the APART project districts including all relevant issues as per objective and scope of the assignment. The report should clearly spell out implementable strategies for making fish feed value chain in the state more robust and effective, thereby benefiting all the value chain players.





**Annex-2:**  
**Terms of Reference (ToR)**

For

**STUDY OF CLIMATE RESILIENT TECHNOLOGIES/ PRACTICES  
TO SUPPORT POND AQUACULTURE AND BEEL FISHERIES**

1. **BACKGROUND:** Application of climate resilient technologies for productivity enhancement is one of the project intervention areas under **APART**. Demonstration of these technologies in both pond/tanks of Common Interest Group (CIG)/FPO members and beel fisheries managed by community groups are the key areas for technology application. The proposed project would **support resilience of agriculture production systems** in order to better manage increasing fish production and minimize/reduce risks associated with climate change, in the targeted districts. The project would adopt a cluster strategy within the targeted districts to generate economies of scale; promote vertical and horizontal links between local agricultural enterprises; enable diffusion of innovations; leverage network externalities; and channel public support for services and infrastructure. The project would enable all the value chain participants to develop competitive and innovative products that meet market demands rapidly and successfully.
2. **OBJECTIVES:** The specific objectives of the consultancy assignment are:
  - a) Mapping the existing climate resilient technologies being practiced by fish farmers in pond/tank and beel fisheries in the state of Assam with reference to the PDO of APART
  - b) Mapping of the existing fish farming technologies being implemented with special reference to the Indigenous Technical Knowledge (ITK), its applicability and adoption
  - c) Addressing the gaps in the adoption of technology of intensive farming practices, their mitigation and technology upgradation strategy
  - d) Scoping the application/adoption of climate resilient fish farming, processing ,trading/ marketing practices by fish value chain players in the state of Assam
3. **SCOPE OF THE ASSIGNMENT AND TASKS TO BE CARRIED OUT BY THE CONSULTANT ORGANISATION:**

Under the overall supervision/coordination of the Director of Fisheries and State Project Director (SPD) ARIAS Society, and in consultation with the other project implementing authorities in the Government of Assam, the Consultancy Organization will:

  - a) Collect, collate, analyze/evaluate the relevant information on climate resilient technologies including Indigenous Technical Knowledge (ITK) from primary and secondary sources for fish production practices and productivity enhancement in freshwater aquaculture ponds/tanks and culture-cum-capture fisheries in open water bodies such as beels-oxbow lakes being practiced in the state, country and globally and also climate resilient technologies related to fish processing/value addition.
  - b) Archiving of the ITKs in relation to climate resilient practices and establishment of Intellectual Property Rights (IPR),
  - c) Study the gaps in the intensive farming systems with reference to climate resilient practices, tabulating the same and processing for dissemination at farmers' level;
  - d) Carry out a detailed study and analysis of the present packages / level of farming practices adopted in the fish farming sector by fish farmers in the identified project districts, in the context of climate resilience, encompassing the following areas:
    - i) Fish seed production by hatcheries and happa breeders, seed growers,
    - ii) Fish production in ponds/tanks and beel fisheries, and
    - iii) Fish production in integrated farming systems, including in other crop production areas.
    - iv) Post-harvest fisheries practices – for processing, preservation, transportation and marketing.

**Note:** The identified climate resilient technologies/practices will be disseminated to farming communities and other value chain players through demonstrations, training programs, awareness campaigns and the Consultant will support the client in this endeavor so that there is increased uptake and adoption of these technologies/practices by value chain players. A plan for accomplishing this should be included in the report. Adoption level of these climate resilient technologies by farmers would be evaluated at mid-term review and end of the project.



  
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4. **METHODOLOGIES:** The study shall be carried out through:

- a) personal/direct interaction with all stakeholders (including seed producers, fish farmers, input suppliers, beel user communities, R&D organizations, fish based business entrepreneurs) either directly or indirectly associated with fish and fish seed production/ harvest and post-harvest management,
- b) collection, compilation and analysis of primary data/information through structured questionnaires prepared in consultation with DoF/ARIAS Society experts,
- c) collection, compilation, review and analysis of secondary data/information from all the relevant and available sources,
- d) stakeholder consultations based on the requirements

5. **DURATION OF ASSIGNMENT DELIVERABLE:** The study shall be completed within the first year of Effectiveness of the contract. Since time is the essence of this assignment, it is expected that there will be no delay in conducting the study and submission of reports as per prescribed time schedule. A detailed draft report should be submitted at the end of the assignment. Observations of DoF/ARIAS Society should be addressed in the final report to be submitted within the stipulated time.

  
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**Annex-3:**

**Terms of Reference (ToR)**

**STUDY ON SCOPE AND APPLICABILITY OF VALUE ADDITION, MARKETING AND CONSUMPTION OF FISH AND FISH PRODUCTS IN ASSAM**

**1. BACKGROUND**

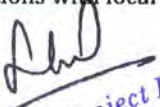
- a) Assam is bestowed with vast and varied aquatic resources that support a rich freshwater fish biodiversity. In terms of water spread area and potential, Assam is one of the most resourceful states in the country. It is estimated that the present per capita consumption of fish in Assam is about 9 Kg/year. Although people of Assam mostly prefer fish in fresh condition, iced fish are also being sold in most of the markets, particularly in the urban and semi-urban fish markets. These iced/preserved fishes are either brought from other districts within the state or from other states like Bihar, Andhra Pradesh, West Bengal, etc. A large section of people are forced to buy iced/preserved fishes brought from other states mainly due to price difference between the same size of fishes produced locally (known as *local* fishes) and fishes imported from other states (known as *chalani* fishes). It has also been observed that during the last few years in sporadic pockets, consumer preference for large fishes has shifted to small size fishes, especially of major and minor carps, which are generally considered ideal for stocking in the pond. Thus these fishes popularly known as 'hotel size fishes' occupy a considerable market share.
- b) Additionally, there are consumers for dry fish and processed fishes and fish products, particularly in the urban fish markets. Traditionally, people in hilly areas consume preserved and fermented fish to a large extent, which is an area that needs to be explored in a systematic manner.
- c) The domestic market for fish in Assam is not determined exclusively by the purchasing power of consumers. It is a well known fact that fish consumption, frequency and preferences are generally affected by consumers' geographic, social and cultural characteristics. It is also known that food preferences are also affected by a number of sensory (taste, smell, texture etc.) and non-sensory factors (behaviors, beliefs, personal preferences, etc). To know the details of consumers preference & consumption pattern of fish, the DoF and ARIAS Society, Government of Assam have decided to commission a study titled "Market study on consumers' preferences and patterns of consumption of fish" through a reputed organisation.

**2. OBJECTIVES:** The specific objectives of the study are to:

- a) analyze the current status of value addition on fish at various levels in Assam (Farm gate, FPO, Corporate, Institutions etc),
- b) study the quantum of value-added fish products produced in the state annually, listing of entrepreneurs involved in the production systems.
- c) critically analyze the problems and prospects with special reference to the on-farm and local resources,
- d) Strategic plan to elevate fish value addition to industrial scale/level with special focus on increased value realization by the grass root level producers,
- e) To understand the consumers' preference and consumption pattern of fish and fish products in its different forms in the state with special reference to project districts,
- f) Analyze socio-cultural-economic characteristics of rural and urban consumers in relation to consumption of fish and fish products,

**3. SCOPE OF THE ASSIGNMENT & TASKS TO BE CARRIED OUT BY THE CONSULTANT:** The scopes of the assignment and the tasks include the following:

- a) to list out and analyse the status of fish value addition activities presently being taken up by various entrepreneurs at various levels in the state,
- b) to analyse the problems and prospects of value addition activities with special reference to on-farm and off-farm situations with local resources,

  
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- c) to formulate strategy for promoting production of value added fish products at industry level in Assam aimed at harnessing the production trends of the rural fish farmers and connecting the high end food chain
- d) to list out the factors which are responsible for affecting fish consumption and consumer preferences for fish and fish products as well as consumption pattern of fish and fish products in different forms through market survey,
- e) to categorize fishes and fish products with good market demand - species and size/weight (range) - wise,
- f) to estimate customers' Willingness to Pay (WTP) for high value fishes/fish products and to analyze the different constraints in the consumption of high value fishes,
- g) to analyze and evaluate the economics of price difference between *local* and *chalani* fishes,
- h) to analyze data on per capita availability and consumption of raw fish (local and imported separately), dry fish, processed fish including fish pickle, fermented fish (*sida*) etc.,
- i) to analyze and present all relevant data for rural and urban areas separately,
- j) to examine the socio-economic characteristics of the respondents, both rural and urban, in relation to consumption of fish and fish products,
- k) to identify fish and non-fish related quality characteristics that induce people to purchase and consume fresh fish and to estimate the relative importance of each characteristics in determining preference ratings,
- l) assessment of annual production level of different value added fish products in the state, enlisting of entrepreneurs involved in different production systems with individual annual production level and income from the enterprise, consumption pattern in different districts, and strategy and scope for promotion of production based on local demands,
- m) to identify the key factors affecting consumption of fresh fish by rural and urban dwellers in the study area.

## 6. METHODOLOGIES:

- a) The assessment shall be carried out essentially through collection of primary data to be gathered through structured and semi structured questionnaires. The consultant will prepare questionnaires and finalize them in consultation with DoF and ARIAS Society for collection of field level information.
- b) Primary data on consumption and preference pattern have to be collected covering:
  - i) representative markets (primary, intermediate and terminal markets) and corresponding traders,
  - ii) randomly selected individuals from all project districts and from a few representative non-project districts of Assam,
  - iii) range of income groups of families such as low income group, middle income group and higher income group both from rural and urban areas,
  - iv) consumers of different ages, educational backgrounds and marital status,
  - v) individual consumers buying wet fish, dry fish and other processed fish/ value added fish products frequently,
- c) Information on socio-economic profiles, expenditure and consumption patterns, constraints in fish and fish products consumption, status of high value fish consumption, willingness to pay for high value fishes and fish products and other related data to be collected and presented systematically
- d) Collection of information from fresh fish market and production enterprises in a few representative states from which fish comes to Assam,
- e) Collection of secondary information from various sources, its review and analysis,
- a) The final interpretation of the data needs to be statistically validated for drawing inferences, wherever necessary.

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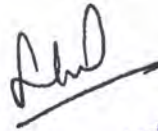
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7. **CONSULTANCY PERIOD & DELIVERABLES:** The study shall be completed within the first year of the effectiveness of the contract. Since time is the essence for this assignment, it is expected that there will be no delay in conducting the study and submission of reports as per prescribed time schedule. A detailed draft report needs to be submitted at the end of the assignment. Observations of DoF/ARIAS Society should be addressed in the final report to be submitted within the stipulated time.

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**APPENDIX B - KEY EXPERTS**  
**Team Composition, Assignment, and Experts' inputs**

#	Name	Position under the assignment	Deliverables:-	Expert's Input in days for each Deliverable (D)											Total Days	
				D-A	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10		
KEY EXPERTS																
K-1	Michael J Philips, Director of Aquaculture & Fisheries Sciences	Team Member	Home	1.5										7	8.5	
			Field											7.5	7.5	
K-2	Chadag Vishnumurthy Mohan, Sr. Scientist Aquaculture and Research Lead, India*	Team Lead and Project Leader	Home	2.5	9	5.5			4.5			6		18	45.5	
			Field		9	5			4.5			6		40	64.5	
K-3	Benoy Kr. Barman, Small Scale Fisheries Sr. Scientist*	Team Member	Home					9		9	8				26	
			Field					13		13	13				39	
K-4	Jharendu Pant, Aquaculture Systems Sr. Scientist*	Team Member	Home		7		11					18		8	44	
			Field		11		17					26		12	66	
K-5	Shakuntala Thilsted, Research Program Leader, Value Chain and Nutrition*	Team Member	Home	2.5				9	18	9.5	9			8	56	
			Field					9	18	10	9			8	54	
K-6	Cynthia McDougall, Gender & Youth Sr. Scientist	Team Member	Home								4.5		10	4	18.5	
			Field								4.5		9	3	16.5	
K-7	Arun Padiyar P, Value Chain & Market (WorldFish Consultant)*	Team Member	Home	1	10	10			30					20	71	
			Field												0	
K-8	Mekkwaw Wagdy Genetics Scientist*	Team Member	Home			6.5	7							2.5	16	
			Field			6.5	7							2.5	16	
K-9	Shwu Jiau TEOH, GIS and Database Expert*	Team Member	Home						18			9		7	34	
			Field						18			9		7	34	
	Subtotal			7.5	46	33.5	42	40	110	41.5	48	74	19	154.5	617	
NON-KEY EXPERTS																
N-1	Suri, Sharon, Project Coordinator	Penang Based Coordinator	Home	1	5	5	5	5	5	5	5	5	5	6	52	
			Field		1	2	2	2	2	2	2	2	2	2	19	
N-2	TBR: Resident Consultant	Assam Based team Lead	Home		119	121	121	121	121	121	121	121	105	117	1,188	
			Field												0	
	Subtotal			1	125	128	128	128	128	128	128	128	112	125	1,259	
	Total			8.5	171	161.5	170	168	239	169.5	176	202	131	279.5	1,876	

**Note:**

- Days are counted from the start of the assignment/mobilization. One (1) month equals twenty two (22) working (billable) days. One working (billable) day shall be not less than eight (8) working (billable) hours.
- "Home" means work in the office in the expert's country of residence. "Field" work means work carried out in the Client's country or any other country outside the expert's country of residence.

**Note: \* CVs have been attached. For one expert under TBR, CVs shall be submitted immediately after recruitment.**

*Shu*  
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## Detailed Job description of each of the positions

### 1 Michael J Philips, Director of Aquaculture & Fisheries Sciences

The Director of Aquaculture and Fisheries Science is responsible for two key business areas:

#### A) Leading the vision and strategy for the WorldFish research programs

As a member of the executive team, provide the science leadership for the development and implementation of a coherent global research strategy for WorldFish.

Ensuring that the WorldFish research strategy:

- delivers innovative science, working through diverse partnerships to achieve research advances and impacts at scale
- aligns with the research priorities of beneficiaries and donors
- aligns with the WorldFish rationale for its geographical focus

#### B) Enhancing global collaboration in aquaculture and fisheries research

Overall leadership and coordination of initiatives to enhance global collaboration to reduce poverty and hunger by improving aquaculture and fisheries. Take a leading role in communicating an inspirational vision to develop research initiatives that will enable aquaculture and fisheries to reach their full potential to improve the livelihoods and nutrition of the poor and undernourished.

Specifically accountable for:

- Science leadership for the development and implementation of WorldFish research strategy and associated country and regional to ensure that research contributes to the achievements of development outcomes.
- Provide dynamic leadership and vision for the role of aquaculture and fisheries in the global efforts to tackle poverty, hunger and environmental degradation via the CGIAR research programs (CRPs).
- Represent WorldFish research interests in the CGIAR Consortium and associated high level forums through appropriate influence and engagement in system level activities as delegated by the Director General.
- Lead the design, development and execution of research programs throughout the organization, to enable quality outcomes and impact through integration of the program with other CRP's and bi-laterals.
- As a member of the Executive Team, ensure effective and efficient integration of CRPs and bi-lateral research projects with WorldFish.
- Build strong relationships with research and development partners (public and private) and identify opportunities for collaborative research.
- Shared leadership for resource mobilization and a strong funding pipeline to ensure a diverse portfolio of funding vehicles with a view on risk minimization and sustainable resources required to achieve the objectives of the WorldFish research strategy.
- Provide collaborative leadership through strong partnerships with executive level peers to strengthen overall leadership effectiveness, and with the science leadership team (SLT), strengthen the rigor and integration of science underpinning our CRPs and other programs.
- As a member of the Executive Team and a Senior Leadership Team member, influence and shape the organization's direction while providing challenging and pragmatic insights to reflect external realities and represent the Director General as required.

### 2 Chadag Vishnumurthy Mohan, Aquaculture Senior Scientist and Research Lead, India

Lead WorldFish aquatic animal health research within WorldFish, as a research cluster within the *Sustainable Aquaculture research program* under the WorldFish research strategy (2017-2022) and FISH CRP (2017-2022). Ensure integration of health research within the overall Sustainable Aquaculture program. In the role of leader of the aquatic animal health research, directly engage and support research planning and implementation at global, regional and country levels; secure research funding; build sustainable national and international research partnerships for scientific excellence; develop and implement collaborative programs in scaling countries for scaling WorldFish technologies and innovations; and contribute to WorldFish impact targets.

Specifically accountable for

- Science leadership, innovation, quality and delivery of research outputs for the aquatic animal health research under cluster 2 of SA Flagship





- Overall coordination of the research cluster 2 (fish health, nutrition and feeds) of the Sustainable Aquaculture Flagship for WorldFish, including ensuring effective co-planning with the FISH cluster 2 partner lead
- Nurturing strategic research partnership in aquatic animal health at global and national levels
- Facilitating development of strong national aquatic animal health teams and biosecurity programs in our fish breeding platforms (Malaysia, Bangladesh and Egypt)
- Leading development of a funding stream of bilateral projects in the area of aquatic animal health and sustainable aquaculture
- WorldFish lead for India, supporting planning, fund raising, partnership dialogue and establishment of a viable program within India as a scaling country
- Ensuring accomplishment of outcome targets for research and impact in areas of responsibility

### **3 Benoy Kr. Barman, Small Scale Fisheries Sr. Scientist**

As Senior Scientist, Dr. Benoy works for project proposal development, leading project for implementation and provide coordination support in carrying out research under different projects/programs and publication of science outputs for WorldFish.

Specifically accountable for:

- Development of deliverables - peer reviewed papers, policy briefs, outcome stories, working papers, manuals, documentaries based on important outcomes of key projects in assigned country.
- Coordinate the support and implementation of research and in development of science outputs of different projects and programs.
- Support project proposals development and provide capacity building support to partners and project members.
- Implement research activities related to CRPs, WorldFish Research Programs and related projects.
- Organize conference, seminar and workshops both regional and national levels under different programs and projects as part of dissemination of the outcomes and policy influence.
- Participate in conference, workshops and seminars to present papers and share lessons held at national, regional and global levels.

### **4 Jharendu Pant, Aquaculture Systems Sr. Scientist**

Contribute to the sustainable aquaculture research program through designing, leading and implementation of new and innovative aquaculture and integrated aquaculture-agriculture research initiatives aligned with WorldFish strategy and CGIAR Research Program (CRP) priorities to advance understanding of sustainable intensification of aquaculture and implementation of research findings at enterprise, value chain, national and global levels. Also responsible to mentor and develop capacity of WorldFish scientists and multidisciplinary teams at global, regional and national levels to effectively plan, implement and publish aquaculture research and increase adoption and impact of WorldFish aquaculture research through building of effective partnerships and management of institutional linkages with NARS, ARIs, NGO's, the private sector and policy makers. He is also responsible to advance the understanding of the impact and roles of aquaculture in sustainably meeting food, nutrition and poverty reduction goals and mobilize resources in support of the WorldFish research strategy and CRP.

Specifically accountable for:

- To work with WorldFish Research Program and CRP teams to develop innovative and compelling aquaculture research agendas targeted at producing high quality science outputs and meeting program IDOs.
- To work with WorldFish scientists and CRP program managers to design and execute scientifically rigorous research activities at global and country program levels.
- To work with colleagues to develop effective science communication products (scientific papers, technical publications, policy briefs) that meet the needs of stakeholders and development partners.
- To work with the Sustainable Aquaculture Program Leader and others to develop high profile science products targeted at influencing global aquaculture research agenda.

*[Signature]*  
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- Provide scientific advice to CRP partners in the area of aquaculture and strengthen the center's scientific and policy linkages in the field of aquaculture, food and nutrition security and poverty reduction.
- Support Project Leaders in effective management of research projects.
- Work with WorldFish gender team and researchers to create measureable gender equitable impacts on poverty and hunger
- Contribute to the development of project proposals.
- Assist in building research capacity within the AQ Discipline and among research partners and stakeholders.

#### **5 Shakuntala H Thilsted, Research Program Leader Value Chains and Nutrition**

The Program Leader is responsible for science direction, innovation and quality within WorldFish's Value Chain and Nutrition Research Program; achievement of defined program outcome targets, in partnership with country programs; alignment of research with priorities of beneficiaries, donors and WorldFish geographical focus; development and execution of a funding stream of global bilateral projects to support program objectives; strategic science partnerships; and integration with relevant CRPs.

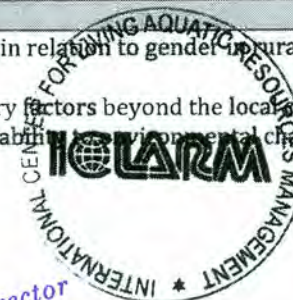
Specifically accountable for:

- Lead the development and implementation of the WorldFish Value Chains and Nutrition (VCN) research program and associated global, regional and national implementation strategies, ensuring delivery of high quality and innovative science that contributes to the achievement of development outcomes.
- Foster a high-performing climate of cross-country and cross-regional collaboration among researchers to define and contribute to common program objectives, integrating country-level outcome priorities.
- Convene scientists within the program to agree on program-level priority science outputs, and key research outcomes or impacts that will be measured through project or CRP monitoring and evaluation activities, and oversee efforts to ensure timely delivery of both.
- Identify and develop a set of global bilateral projects to support program objectives, in addition to ensuring quality science inputs to regional/country bilateral project development. Through both these avenues, meet agreed annual targets for secured funding.
- In the role of Flagship Leader, prepare and oversee implementation of plans for successful delivery of outputs and outcomes from the CRP FISH flagship 3: Enhancing the contribution of fish for the nutrition and health of the poor.
- Represent WorldFish in high-profile external fora and take lead responsibility for prioritizing and maintaining strategic science partnerships within the research domain, through direct engagement and through guidance and coaching of team members.
- Assess science staffing needs within the program (in conjunction with country leaders), manage recruitment to meet these, and directly manage performance of senior science members within the research program to set and maintain high standards, while mentoring more junior members.
- Ensure effective integration of WorldFish research planning internally (other CRP Flagships/WorldFish research programs, country and bilateral projects) and with relevant external initiatives, including A4NH and PIM (value chains flagship).
- Contribute high-quality peer reviewed science output, provide feedback and review to researchers, and reinforce science quality standards across the program.
- As a member of the senior leadership team, contribute to strategic deliberations regarding key challenges and objectives of the full organization at several junctures over the course of the year.

#### **6 Cynthia McDougal, Gender & Youth Sr. Scientist**

The Gender Specialist provides leadership in the design, implementation, analyses, and production of high quality scientific outputs in relation to gender in rural development contexts. The work aims to help elucidate and tackle a range of key challenges:

- Reducing gender inequities reinforced by gendered norms, practices and rules at the local scale, as well as legal or regulatory factors beyond the local community
- Improving social-ecological resilience by addressing institutions and structures that perpetuate social exclusion and vulnerability to environmental change
- Increasing agricultural productivity through improved access and management of natural resources





- Increasing income that small-scale producers and processors derive from participation in value chains by changing rules and regulations that discriminate against them
- Scaling up innovations by contributing to changes in the policies and practices of governments, corporations, and development partners

Specifically accountable for:

- Provide scientific leadership and engage in high-quality, applied gender and social equity-oriented research in WorldFish's research programs;
- In particular, provide gender leadership in relation to aquatic agricultural systems and fish value chains, including thought leadership and undertaking high quality research, analysis and scientific writing, as well as fundraising;
- Contribute as member of a cross-regional team of scientists working within this topic to design and implement high quality research at global, regional and country levels, and implement these with a focus on outcomes;
- Synthesize and communicate the lessons of these experiences internationally through participation in influential research and policy networks.

#### **7 Arun Padiyar P, Value Chain & Market (WorldFish Expert)**

WorldFish is implementing a 5-year project to support the Fisheries and Animal Resources Department (F&ARD) of the Government of Odisha in sustainable development of aquaculture and fisheries in the state of Odisha in line with the recently approved State Fishery Policy. The project objectives are to (i) sustainably increase inland aquaculture productivity and production; (ii) improve the business environment for private investment in aquaculture; (iii) improve domestic fish marketing and improve impact of fish on human nutrition in the state, especially, among vulnerable groups in urban and rural areas; (iv) support for improving the planning and management of existing inland natural aquatic resources for aquaculture; and (v) enhance public and private sector capacity for sustainable management of sectoral growth.

Arun Padiyar is coordinating and supporting the implementation of Phase I (April 2017-March 2019) of Odisha WorldFish Project.

- Provide overall leadership and coordination to support implementation of phase I of Odisha WorldFish project
- Support WorldFish and the Project Leader in implementing and delivering overall goals of the project.
- Maintain strong collaboration with the F&ARD and other key partners to ensure project activities are responsive to the F&ARD plans and programs and supportive of the State Fishery Policy implementation.
- Assist WorldFish in identifying and recruiting national technical experts for implementing project interventions.
- Assist in preparing a detailed plan of work including budgets for phase 1 of the project and align with the program of Directorate of Fisheries
- Guide and assist the Component Leaders and project staff to develop study work plans and carry-out the respective activities under each component of the project during phase I, including preparation of reports and deliverables
- Provide leadership to the Market and Business development component of the project
- Assist in preparing detailed progress reports, annual reports, project deliverables and project presentations
- Undertake any other general duties as per the needs and advices of the Project Leader.

#### **8 Mekki Wagdy, Genetics Scientist**

Under the general direction of the Genetics Principal Scientist, the Scientist conducts high quality research on fish genetics, and manage fish genetic improvement programs aimed at improving their farm performance. The research include the incorporation of molecular tools and genomic selection, where suitable. The Scientist also works closely with other members of the genetics and aquaculture team in collaboration with husbandry, feed, health and social scientists delivering integrated solutions to accelerate sustainable growth of aquaculture in Africa and Asia.

Specifically accountable for:

*[Signature]*  
State Project Director  
ARIAS Society





- Novel fish breeds developed and disseminated through the successful design and implementation of high quality research on genetics related to improved aquaculture performance, with emphasis on tilapia, carp and catfish farming in Africa and Asia.
- Efficiently managed breeding and genetic improvement programs for aquaculture species including genomic selection where appropriate.
- Strong inter-disciplinary research collaboration developed and maintained with other WorldFish scientists, particularly on research focusing on fish nutrition, health and husbandry, aquaculture technologies and social science (e.g. feeds/disease; impact studies).
- Productive partnerships with local and international research institutes and private sector, and provision of technical advice to these as required.
- Productive science team focused on research solutions for sustainable growth of aquaculture in Africa and Asia.
- High quality experimental plans and journal articles on fish genetics research produced.
- Successful grant applications and resources mobilized in support of WorldFish genetics research activities.
- Communication products for end users of research.

#### **9 Shwu Jiau TEOH, , GIS and Database Expert**

The research agenda of WorldFish and the CGIAR places a high priority on the use of geospatial tools and techniques to support aquaculture and fisheries research. The GIS Specialist leads the development of innovative digital tools for gathering, storing, processing data and disseminating information on aquaculture, fisheries, nutrition, food, poverty, and water and environment research and development outcomes.

Specifically accountable for:

- Lead, promote and advocate the analyses and application of geospatial techniques, of complex spatial data into fisheries and aquaculture research, including the new FISH CRP.
- Lead the development and successful implementation of web-based applications or geo-referenced database systems for reporting and disseminating research products and visualisation/analysis of outcomes from WorldFish/FISH research.
- Lead relevant GIS projects and GIS components of WorldFish programs/projects, including management of project planning, milestones, work plans and delivery of research outputs which have geospatial or database component.
- Interact with partners, promote and develop collaboration with WorldFish GIS activities
- Supervise and coach GIS staff to accomplish WorldFish GIS activities effectively
- Develop research proposals and provide input where necessary on application of geospatial tools and techniques to support aquaculture and fisheries research.
- Development of innovative geospatial research methods and tools in fisheries management, aquaculture, poverty alleviation and nutrition improvements.
- Development of geospatial database with metadata in compliance with prevailing protocols and standards of CGIAR.
- Development of standard geo-positioning/geo-referencing protocols for field/primary/mobile data collection, documentation on GIS/RS-based modelling and applications developed, reports and maps for GIS analysis/modelling results.
- Publish scientific papers and journal articles, and presentations explaining GIS/RS applications delivered at the relevant meetings/workshops and international conferences when opportunities arise.
- Represent WorldFish in CGIAR Consortium on Spatial Information (CSI), other relevant international GIS fora and interactions (including GIS licensing/geospatial applications, shared GIS/RS datasets and management).
- Capacity building of research staff in country offices and national partners in GIS and geospatial database management, and the successful design and delivery of training materials to support capacity building initiatives for all country offices.
- Development of systems for effective M&E data storage and retrieval in close consultation with the M&E Leader/Scientist.



#### 10 Sharon Suri, Project Coordinator (Penang Based)

The Project Manager provides support to the management of FISH/SAF/projects and aquaculture research platforms under the Sustainable Aquaculture program and acts as a "one-stop shop" to ensure efficient coordination of such research activities. The incumbent also provides financial and business analysis skills to support the program's increasing interactions with private/business sector partners ongoing through the WorldFish Incubator and the CRP FISH.

Specifically accountable for:

- Support aquaculture program/project leaders with coordination and completion of financial and administrative management tasks of program/projects, including pro-actively establishing deadlines, assigning responsibilities, monitoring progress, informing team members and analyze budgets, as well as summarizing progress to leadership.
- Provide assistance to aquaculture program/project leaders across the following areas of project management and ensure these activities are efficiently coordinated with relevant WorldFish Finance and Administrative Units and processes in HQ and country/regional offices:
  - a) Program/project budget planning, and pre-award resource allocation processes
  - b) Prepare and analyze data on program/project performance and progress metrics.
  - c) Ensure AQ scientists coordinate effectively with Finance in preparing budgets and financial reports.
  - d) Supporting AQ scientists in preparation of financial analysis and resource sections of new grant proposals and research investments.
- Focal point for all new project startup within Sustainable Aquaculture Program:
  - a) Manage the coordination of all relevant parties including finance, HR & partners on matters related to setting up new project site / office including workforce planning and working with relevant agencies to ensure projects are implemented in a smooth and timely manner.
  - b) Ensure set up and implementation of administration and finance processes and guidelines in new project sites are in compliance with WorldFish's standard guidelines and procedures.
- Coordinate with the Regional Finance Quality manager to ensure new project staff are trained/developed on finance and administration processes and procedures to ensure smooth operations for all new projects / sites.
- Support financial analysis, forecasting and budget planning for sustainable operation of the aquaculture research platforms (in Bangladesh, Egypt/Abbassa and Malaysia) in coordination with country platform leaders, sustainable aquaculture program research leadership and in alignment with WorldFish Finance and Administrative Units and processes.
- Provide financial analysis and business planning for the aquaculture program in its interactions with private sector/business partners and aquaculture enterprises.
- Provide coordination between sustainable aquaculture program/project/platform leaders and the WorldFish Research Support Hub and WorldFish Finance and Administrative Units and Business Managers in country/regional offices.

#### 11 TBR: Resident Consultant (Assam Based)

The Consultant supports growth in our aquaculture initiatives within the country, providing support to our projects and partners to innovate and scale out different aquaculture systems suitable to the people and agro-ecologies of the two regions. Working closely with public, private and civil society partners, the incumbent contributes to WorldFish research in development initiatives to support sustainable growth of aquaculture to achieve impact on income and nutrition of poor and vulnerable households.

Specifically accountable for:

- Develop activity-level work plans and budgets, monitor progress against project objectives and milestones, and draft project reports.

*Handwritten signature*  
State Project Director  
ARIAS Society





- Monitor and provide regular updates to Country Director, Aquaculture Program Manager and technical team regarding aquaculture project activities and partner relations in-country.
- Mentoring aquaculture activity on regular basis to strengthen the technical, project planning and management capacities.
- Supervise the work of national aquaculture project staff in support of project activities.
- Provide guidance and capacity building to partner organization staff in setting up and implementing effective systems for aquaculture project implementation.
- Provide general procedural guidance to national partners in designing and implementing specific research projects where appropriate provide technical inputs to field-based research relevant to own expertise.
- Develop and oversee the M&E system for the project and coordinate with the aquaculture program to ensure appropriate links and alignment to the CRP FISH Program outputs.
- Represent WorldFish at external meetings and consultations to ensure that the project's objectives and outputs are communicated appropriately.
- Provide support and capacity building to national staff and partners for the documentation, storage and analysis of data collected by projects and in preparing written materials in English with high accuracy.
- Support the development of concept notes and proposals for specific agreed priorities, and explore opportunities for future collaboration and partnership with organizations and associations engaged in the fishery and supporting sectors and in particular with NGOs, private sector, government departments and CBOs.
- Provide technical inputs on relevant subjects (eg aquaculture, value chains, and small business development).

  
 State Project Director  
 ARIAS Society





## APPENDIX C – BREAKDOWN OF CONTRACT PRICE

### Cover letter for Financial Proposal from WorldFish

11 July 2018  
WorldFish HQ  
Jalan Batu Maung, Batu Maung,  
11960 Bayan Lepas, Penang, Malaysia

To:

**The State Project Director,**  
**ARIAS Society, Project Coordination Unit, Agriculture Complex, Khanapara, G.S. Road,**  
**Guwahati-781022; (Assam, India); Tel: 0361-2332125; Tele-Fax: 0361-2332564; email: spd@arias.in**

Dear Sirs:

We, the undersigned, offer to provide the consulting services for **'Technical Assistance to Fisheries Sub-Component of the World Bank assisted Assam Agribusiness and Rural Transformation Project (APART)'** in accordance with your Request and our Technical Proposal.

Our attached Financial Proposal is for the amount of **US\$ 1,062,699 (in words US Dollar One Million sixty two Thousand six Hundred and ninety nine only)** excluding all taxes. The estimated amount of local indirect taxes (GST, @ 18% and conversion rate of 1 US\$ = ₹65/-) is **Indian Rupees 1,24,33,578/- (in words Indian Rupees One crore twenty four lakh thirty three thousand five hundred and seventy eight only)** which shall be confirmed or adjusted, if needed, during negotiations.

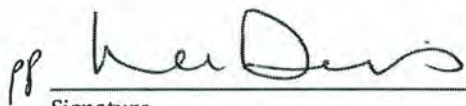
Our Financial Proposal shall be valid and remain binding upon us, subject to the modifications resulting from Contract negotiations.

No commissions or gratuities have been or are to be paid by us to agents or any third party relating to this Proposal and Contract execution.

We understand you are not bound to accept any Proposal you receive.

We remain,

Yours sincerely,

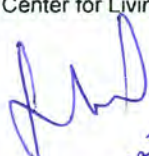


Signature

Full name: Gareth Johnstone  
Title: Director General  
Name of Consultant: WorldFish  
Address: WorldFish HQ, Jalan Batu Maung, Batu Maung, 11960 Bayan Lepas, Penang, Malaysia  
Phone/fax: T: +604 628 6888 F: +604 626 5530  
Email: worldfishcenter@cgiar.org



WorldFish Headquarters (Malaysia). Jalan Batu Maung, Batu Maung, 11960 Bayan Lepas,  
Penang, Malaysia T: +604 628 6888 F: +604 626 5530 E: worldfishcenter@cgiar.org  
M: P.O. Box 500, GPO 10670, Penang, Malaysia  
Legal Name: International Center for Living Aquatic Resources Management (ICLARM)  
www.worldfishcenter.org

  
State Project Director  
ARIAS Society



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## (1) Summary of Costs

Item	Total Amount
Cost of the Financial Proposal Including:	
(A) Remuneration	US Dollar 655,306
(B) Reimbursables	US Dollar 407,393
<b>Total Cost of the Financial Proposal:</b>	<b>US Dollar 1,062,699</b>
Indirect Local Tax Estimates – to be discussed and finalized at the negotiations if the Contract is awarded:	
(i) {insert type of tax e.g., GST} (GST, @ 18% and conversion rate of 1 US\$ = ₹65/-)	Indian Rupees 1,24,33,578
(ii) {e.g., income tax on non-resident experts}	
(iii) {insert type of tax}	
<b>Total Estimate for Indirect Local Tax:</b>	

Note: Payments will be made in the currency expressed above

## (2) Breakdown of Remuneration

Note: Information to be provided in this Form will be used to demonstrate the basis for the calculation of the Contract's ceiling amount; to calculate applicable taxes; and, if needed, to establish payments to the Consultant for possible additional services requested by the Client. **This Form will not be used as a basis for payments:**

A. Remuneration					
No.	Name	Position	Remuneration Rate per Day (US\$)	Time Input in Days	Total in US \$
<b>Key Experts</b>					
K-1	Michael J Philips, Director of Aquaculture & Fisheries Sciences	Team Member	[Home] 973.85 [Field] 973.85	8.5 7.5	8,268 7,314
K-2	Chadag Vishnumurthy Mohan, Aquaculture Senior Scientist	Team Lead and Project Leader	[Home] 560.27 [Field] 560.27	45.5 64.5	25,492 36,138
K-3	Benoy Kr. Barman, Small Scale Fisheries Sr. Scientist	Team Member	[Home] 236.31 [Field] 236.31	26 39	6,144 9,216
K-4	Jharendu Pant, Aquaculture Systems Sr. Scientist	Team Member	[Home] 490.49 [Field] 490.49	44 66	21,582 32,372
K-5	Shakuntala Thilsted, Research Program Leader, Value Chain and Nutrition	Team Member	[Home] 861.85 [Field] 861.85	56 54	48,257 46,547
K-6	Arun Padiyar Panemangalore, WorldFish Consultant	Team Member	[Home] 492.19 [Field] 492.19	71 0	34,945 0
K-7	Wagdy Mekawy, Genetics Scientist	Team Member	[Home] 373.27 [Field] 373.27	16 16	5,973 5,972
K-8	Shwu Jiau TEOH, GIS and Database Expert	Team Member	[Home] 116.28 [Field] 116.28	34 34	3,954 3,953
K-9	Cynthia McDougall, Gender & Youth Sr. Scientist	Team Member	[Home] 593.49 [Field] 593.49	18.5 16.5	10,973 9,799
<b>Subtotal</b>					<b>316,899</b>
<b>NON-KEY EXPERTS</b>					
N-2	Suri, Sharon, Project Coordinator (based in Penang)	Penang Based Coordinator	[Home] 269.63 [Field] 269.63	52 19	14,020 5,124
N-3	TBR: Resident Consultant (national staff based in Assam)	Assam Based team Lead	[Home] 268.74 [Field] 268.74	1,188 0	319,263 0
<b>Subtotal</b>					<b>338,407</b>
<b>Total</b>					<b>655,306</b>

We hereby confirm that we have agreed to pay to the Experts listed, who will be involved in performing the Services, the basic fees and away from the home office allowances (if applicable) indicated below:

Name of Consultant

ICLARM also known as WorldFish

Signature of Authorized Representative

Date:

Name: Dr Gareth Johnstone

Title: Director General



*State Project Director*  
*ARIAS Society*



### (3) Breakdown of Reimbursable Expenses

Note: Information to be provided in this Form will be used to demonstrate the basis for the calculation of the Contract's ceiling amount; to calculate applicable taxes; and, if needed, to establish payments to the Consultant for possible additional services requested by the Client. **This Form will not be used as a basis for payments:**

<b>B. Reimbursable Expenses</b>					
<b>N°</b>	<b>Type of Reimbursable Expenses</b>	<b>Unit</b>	<b>Unit Cost</b>	<b>Quantity</b>	<b>Amount In US\$</b>
	International flight from Penang, Malaysia to Guwahati	{Ticket}	\$1,310.00	70	91,700
	Per diem for travel from Penang, Malaysia to Guwahati (estimate 6 days per trip)	{Day}	\$96.21	420	40,408
	Accommodation for travel from Penang, Malaysia to Guwahati (estimate 5 days stay)	{Day}	\$211.46	350	74,011
	Grants finance unit costs for project financial management and reporting*	{Day}	\$182.09	43	7,830
	Human Resources costs for new recruitment (year 1 only)*	{Day}	\$133.33	12	1,600
	Project support costs	Lump sum	\$9,493		9,493
	Allocated MIS costs*	{Day}	\$6.10	1,876	11,444
	Allocated Facility costs*	{Day}	\$14.40	442	6,365
	16% Indirect cost				143,705
	2% CGIAR consortium costs				20,837
<b>Total Costs</b>					<b>407,393</b>

Name of Consultant  
ICLARM also known as WorldFish

*Dr. Gareth Johnstone*

Signature of Authorized Representative

Date: 10/08/2018

Name: Dr Gareth Johnstone

Title: Director General



*[Signature]*  
State Project Director  
ARIAS Society



#### **(4) Consultant's Representations Regarding Costs and Charges**

##### **Consultant's Representations Regarding Costs and Charges**

16 November 2017

WorldFish HQ  
Jalan Batu Maung, Batu Maung  
11960 Bayan Lepas, Penang, Malaysia

**Assignment: Technical Assistance for the Fisheries Sub-Component of the World Bank Financed APART**

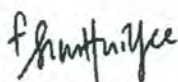
We hereby confirm that:

- a) The remuneration rates for Experts listed in the Financial Proposal and forecasted 2018-2022 average remuneration rates and calculation are attached;
- b) Attached are copies of the latest employment contracts of the Experts listed; and
- c) Attached is the summary of current insurance coverages provided to Experts listed.

WorldFish

Signature of Authorized Representative

Date: 16 November 2017



**ZARINAH DAVIES**  
Director of Human Resources



---

WorldFish Headquarters (Malaysia), Jalan Batu Maung, Batu Maung, 11960 Bayan Lepas, Penang, Malaysia  
T: +604 626 8888 F: +604 626 5530 E: worldfishcenter@cglar.org  
M: P.O. Box 500, GPO 10670, Penang, Malaysia  
Legal Name: International Center for Living Aquatic Resources Management (ICLARM)  
www.worldfishcenter.org



State Project Director  
ARIAS Society



## Appendix E: Technical Proposal from WorldFish

16 Nov 2017  
WorldFish HQ  
Jalan Batu Maung, Batu Maung,  
11960 Bayan Lepas, Penang, Malaysia

To: The State Project Director,  
ARIAS Society, Project Coordination Unit, Agriculture Complex, Khanapara, G.S. Road,  
Guwahati-781022; (Assam, India); Tel: 0361-2332125; Tele-Fax: 0361-2332564; email: [spd@arias.in](mailto:spd@arias.in)

Dear Sirs:

We, the undersigned, offer to provide the consulting services for 'Technical Assistance to Fisheries Sub-Component of the World Bank assisted Assam Agribusiness and Rural Transformation Project (APART)' in accordance with your Request and our Proposal. We are hereby submitting our Proposal, which includes this Technical Proposal and a Financial Proposal sealed in a separate envelope.

We hereby declare that:

- a) All the information and statements made in this Proposal are true and we accept that any misinterpretation or misrepresentation contained in this Proposal may lead to our disqualification by the Client and/or may be sanctioned by the Bank.
- b) Our Proposal shall be valid and remain binding upon us during the term of the contract.
- c) We have no conflict of interest in accordance with ITC 3 of the RFF Document.
- d) We meet the eligibility requirements as stated in ITC 6 of the RFF Document, and we confirm our understanding of our obligation to abide by the Bank's policy in regard to Fraud and Corruption as per ITC 5 and also as per the contract.
- e) We, along with any of our sub-consultants, subcontractors, suppliers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the World Bank Group or a debarment imposed by the World Bank Group in accordance with the Agreement for Mutual Enforcement of Debarment Decisions between the World Bank and other development banks. Further, we are not ineligible under the Client's country laws or official regulations or pursuant to a decision of the United Nations Security Council;
- f) We undertake to observe the laws against fraud and corruption, including bribery, in force in the country of the Client.
- g) We undertake to negotiate a Contract on the basis of the proposed Key Experts. We accept that the substitution of Key Experts for reasons other than those stated in the contract may lead to the termination of Contract negotiations.
- h) Our Proposal is binding upon us and subject to any modifications resulting from the Contract negotiations.

We undertake, if our Proposal is accepted and the Contract is signed, to initiate the Services related to the assignment no later than the date indicated in the contract agreement.

We understand that the Client is not bound to accept any Proposal that the Client receives.

We remain,  
Yours sincerely,



Signature  
Full name: Dr Gareth Johnstone  
Title: Director General  
Name of Consultant: WorldFish  
Address: WorldFish HQ, Jalan Batu Maung, Batu Maung, 11960 Bayan Lepas, Penang, Malaysia  
Phone/fax: T: +604 628 6888 F: +604 626 5530  
Email: [worldfishcenter@cgiar.org](mailto:worldfishcenter@cgiar.org)



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M: P.O. Box 500, GPO 10670, Penang, Malaysia  
Legal Name: International Center for Living Aquatic Resources Management (ICLARM)  
[www.worldfishcenter.org](http://www.worldfishcenter.org)



  
State Project Director  
ARIAS Society