Overview from Bangladesh – Blue Economy Challenge Project

Trial Description

- Location: Shahos, Dumoria, Khulna
- Feed type: Pellet feed from Semi-auto feed mill and keep moisture up to 12%, through drying overnight in oven at 65°C
- Stocking Density: 15 ind/m³
- Stocking size: 5 gram
- Harvesting size: 20 gram
- Total Cage: 10 x 4 x 2 ponds = 80
- Size of cage: 1-1.2 m³
- Cage materials: Fine mesh net with iron frame and aeration in each cage
- Feeding regime – 2 times feed/day
- Total Pond replicate: 2
- Pond size: 30 decimal
- Duration of rearing juvenile: 56 days
- Feed is administrated by feeding tray
- Uneaten feed collected and dried for analysis.
- Number of treatment: 10 types of feed (including control CP)
- Number of replicate: 8
- Number of ponds: treatments and replicates are distributed in 2 ponds
- Sampling: Every 15 days interval
- Pond size: 30 decimal

Partner organizations:
- Fisheries and Marine Resource Technology Discipline, Khulna University (Contact person: Shikder Saiful Islam)
  - Involve in indoor tank trial and a student completed submitted M.Sc thesis on this.
  - This trial in university was led by Shikder Saiful Islam, Assistant Professor, Fisheries and Marine Resource Technology Discipline, Khulna University, Bangladesh
- Faculty of Fisheries, Bangladesh Agriculture University, Mymensingh, Bangladesh
  - Proximate analysis of shrimp feed has been done here.
- Daud Fish Farm, Khulna
  - The trial ponds were located here

WorldFish Team:
- Kazi Ahmed Kabir
  - Support in coordinating, and implementing the trial program
- Md. Shamim Hossain
  - PL stocking, Feeding, data collection & sampling
- Mohammad Mamun Ur Rashid
  - Assist in research design, cage design, feed formulation, production, and monitoring

Feeds

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Ingredients</th>
<th>Brand</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
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<tbody>
<tr>
<td>1</td>
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<tr>
<td>16</td>
<td>Pellet binder</td>
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and CP Shrimp feed
Result

\[ y = 3.005x + 46.271 \]

\[ R^2 = 0.7894 \]
**Key outcome**

- Control feed showed better result than treated feed
- Cholestrol treated feed showed better performance.

**Challenges**

- Importation of Novaq in Bangladesh
- Customize Feed production and collection of some ingredients
- Maintenance of cages

**Reflections**

The local production facilities is necessary to make it accessible and economically viable.