APPENDIX - A

FARMARS AND AUTHORITIES RESPONS SURVEY QUESTIONNAIRE
(TRANSLATED FROM REGIONAL LANGUAGE)

India, an agricultural based country is facing lot of problems in the irrigation management context. As the objectives of irrigation management are changing from single objective to multiple objectives, it is necessary to evaluate the relative importance of each of these objective(s) in a scientific and systematic manner. Also it is necessary to know the existing water management practices in a holistic scene in the command area. For this purpose, a research programme has been initiated by the investigator under the guidance of Dr. S P Mohanty, Reader in Mathematics, Department of Mathematics, College of Engineering & Technology, Orissa University of Agriculture & Technology, Bhubaneswar and Dr. Minaketan Mahanti, Assistant Professor of Mathematics, Department of Mathematics, College of Basic Science & Humanities, Orissa University of Agriculture & Technology, Bhubaneswar, India. The collected data is for research purpose only.

NB: Please think more than once before filling in the answers.

1.0 GENERAL DETAILS

1.1 Questionnaire serial No. __________________
1.2 Distributory No/Mandal __________________
1.3 Farmer's Name __________________
1.4 Acerage __________________ha
1.5 Reach  [ ] Head  [ ] Middle  [ ] Tail
2.0 IRRIGATION MANAGEMENT DETAILS

2.1 Have you got canal gate opening information from Laskar?  
   □ Yes □ No

2.2 Are you getting water at right time?  
   □ Yes □ No

2.3 Are you supplementing canal supplies with ground water?  
   □ Yes □ No

2.4 Are you getting adequate water?  
   □ Yes □ No

2.5 What are the crops you grew this season?  
   □ Yes □ No
   □ Paddy □ Jute □ Groundnut □ Greengram
   □ Blackgram □ Vegetables

2.6 Are you using High yielding variety seeds?  
   □ Yes □ No

2.7 Are you aware of critical periods of the crops grown by you?  
   □ Yes □ No

2.8 Are you practicing the equitable distribution of water?  
   □ Yes □ No

2.9 Are you of the opinion that canal water cost is reasonable?  
   □ Yes □ No
2.10 Are you interested to participate in O & M works

2.11 Are you having any difficulties with your co-farmers?

2.12 Has farmers group formed at pipe/distributory level

2.13 Are you facing any of the following difficulties?

a) Poor drainage decreased the crop production

b) Irrigation water does not reach uniformly to the fields as channels are defective

c) Land development work has not been done

d) Inadequate marketing facilities

e) Inadequate availability of fertilizers

f) Poor coordination between relevant agencies
g) Low prices of agricultural produce  Yes  No
h) Misuse of water  Yes  No
i) Lack of cooperation between farmers and officers  Yes  No

2.14 Would you say that this irrigation project has benefited the farmers in the project area?
# If yes,
By way of increasing production  Yes  No
By way of increasing income  Yes  No
By way of getting employment  Yes  No

3.0  THIS IS FOR PROJECT AUTHORITIES ONLY

Name:

Designation:

3.1 Is your relationship with farmers satisfactory?  Yes  No
3.2 Do you consider that there should be increase in canal water cost?  Yes  No
3.3 Are you considering for giving subsidy in ground water cost?  

3.4 Are you interested to encourage farmers association?  

3.5 Are you co-ordinating with other agencies?  

4.0 RELATIVE IMPORTANCE OF CRITERIA  

The following is the input required to generate the relative importance of criteria i.e., net agricultural benefits, agricultural production and labour employment. The physical meanings of three criteria is as follows:

Net benefits : After excluding all the expenses the net returns to the farmer

Agricultural production : Production of Cereals, Pulses and Groundnut

Labour employment : Providing employment to the rural labour in agricultural based works.
This interview is based on the scale of 1 to 9. The terminology of the scale is given below:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Equally important or preferred</td>
</tr>
<tr>
<td>3</td>
<td>Slightly more important or preferred</td>
</tr>
<tr>
<td>5</td>
<td>Strongly more important or preferred</td>
</tr>
<tr>
<td>7</td>
<td>Very strongly more important or preferred</td>
</tr>
<tr>
<td>9</td>
<td>Extremely more important or preferred</td>
</tr>
<tr>
<td>2, 4, 6, 8</td>
<td>Intermediate values to reflect compromise</td>
</tr>
<tr>
<td>Reciprocal</td>
<td>Used to reflect dominance of the second alternative as compared with the first</td>
</tr>
</tbody>
</table>

NB: Please think once more before filling in the answers for the questions.

1) What is the relative importance of net benefits over agricultural production?

2) What is the relative importance of net benefits over labour employment?

3) What is the relative importance of agricultural production over labour employment?

THANKING YOU