

## Appendix D Stakeholders Pairwise Comparison Questionnaire

Name:

Address:

Institution:

Institution mandate:

Position:

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Please fill in the below according to your area of expertise:

### **Making Numerical Judgments:**

The Numerical Comparison table is designated to understand your comparative importance to the identified indicators. Numerical judgments are made in the below table. Two indicators are compared with respect to your priority using a numerical scale. The numerical value is inserted to indicate which judgment is preferred and the strength of that preference. The numerical equivalents of the judgments are displayed here as numbers from 1 to 9 as per the below table.

| Comparative Importance Preference | Numerical Rating |
|-----------------------------------|------------------|
| Extreme                           | 9                |
| Very strong to Extreme            | 8                |
| Very Strong                       | 7                |
| Strong to Very Strong             | 6                |
| Strong                            | 5                |
| Moderate to Strong                | 4                |
| Moderate                          | 3                |
| Equal to Moderate                 | 2                |
| Equal                             | 1                |

The Questionnaire is using comparative preference; you have to enter the value that reflects your relative importance between the two alternatives as per the table above.

Four main priorities are compared namely;

**Water Quality:** How comparatively importance the increase of water quality

**Urban Development:** How comparatively important the increase of urban area

**Industrial Development:** How comparatively important to increase the industrial activities around Lake Maryout.

**Fish Catch:** How comparatively important the increase of fish production to your Institution

### Water Quality- Urban development

- 3- Please enter your preference between Water Quality- Urban development
- 4- Please enter your comparative preference between in numeric value from 1-9 in the respective space

Water Quality

9 8 7 6 5 4 3 2 1 2 3 4 5 6 7 8 9

Urban Development

Compare the relative preference with respect to: Name of Stakeholder

|                        | Water Quality | Urban Development | Industrial Development | Fish Catch |
|------------------------|---------------|-------------------|------------------------|------------|
| Water Quality          |               |                   |                        |            |
| Urban Development      |               |                   |                        |            |
| Industrial Development |               |                   |                        |            |
| Fish Catch             |               |                   |                        |            |

### Water Quality- Industrial development

- 3- Please enter your preference between Water Quality- Industrial development
- 4- Please enter your comparative preference between in numeric value from 1-9 in the respective space

Water Quality

9 8 7 6 5 4 3 2 1 2 3 4 5 6 7 8 9

Industrial Development

Compare the relative preference with respect to: Name of Stakeholder

|                        | Water Quality | Urban Development | Industrial Development | Fish Catch |
|------------------------|---------------|-------------------|------------------------|------------|
| Water Quality          |               |                   |                        |            |
| Urban Development      |               |                   |                        |            |
| Industrial Development |               |                   |                        |            |
| Fish Catch             |               |                   |                        |            |

### Water Quality- Fish Catch

- 3- Please enter your preference between Water Quality- Fish Catch
- 4- Please enter your comparative preference between in numeric value from 1-9 in the respective space

|                        | Water Quality | Urban Development | Industrial Development | Fish Catch |
|------------------------|---------------|-------------------|------------------------|------------|
| Water Quality          |               |                   |                        |            |
| Urban Development      |               |                   |                        |            |
| Industrial Development |               |                   |                        |            |
| Fish Catch             |               |                   |                        |            |

### Urban Development-Industrial Development

- 3- Please enter your preference between Urban Development-Industrial Development
- 4- Please enter your comparative preference between in numeric value from 1-9 in the respective space

|                        | Water Quality | Urban Development | Industrial Development | Fish Catch |
|------------------------|---------------|-------------------|------------------------|------------|
| Water Quality          |               |                   |                        |            |
| Urban Development      |               |                   |                        |            |
| Industrial Development |               |                   |                        |            |
| Fish Catch             |               |                   |                        |            |

### Urban Development-Fish Catch

- 3- Please enter your preference between Urban Development-Fish Catch

- 4- Please enter your comparative preference between in numeric value from 1-9 in the respective space

|                        | Water Quality | Urban Development | Industrial Development | Fish Catch |
|------------------------|---------------|-------------------|------------------------|------------|
| Water Quality          |               |                   |                        |            |
| Urban Development      |               |                   |                        |            |
| Industrial Development |               |                   |                        |            |
| Fish Catch             |               |                   |                        |            |

### Industrial Development - Fish Catch

- 3- Please enter your preference between Industrial Development and Fish Catch  
 4- Please enter your comparative preference between in numeric value from 1-9 in the respective space

Compare the relative preference with respect to: Name of Stakeholder

|                        | Water Quality | Urban Development | Industrial Development | Fish Catch |
|------------------------|---------------|-------------------|------------------------|------------|
| Water Quality          |               |                   |                        |            |
| Urban Development      |               |                   |                        |            |
| Industrial Development |               |                   |                        |            |
| Fish Catch             |               |                   |                        |            |