

# Updating Species Red List of Bangladesh

## (RAG-Butterfly)

### Tour Place: Lawachara NP and Madhobkunda Eco-Park

#### Justification

##### **Background**

Lawachara National Park is a major national park and nature reserve in Bangladesh. The park is located at Kamalganj Upazila, Maulavibazar District in the northeastern region of the country.

Lawachara National Park covers approximately 1,250 ha (12.5 km<sup>2</sup>) of semi-evergreen forests of the Tropical and subtropical coniferous forests Biome and mixed deciduous forests of the Tropical and subtropical moist broadleaf forests Biome. The land was declared a national park by the Bangladesh government on July 7, 1996 under the Wildlife Act of 1974.

On the other hand, Madhobkunda Eco-park is a natural Park situated in Barlekha Upazila, Maulavibazar District. This park is also famous for its unique animal and plant populations. At present, anthropogenic activities cause the degradation of natural beauties and habitats of this Eco-park.

These evergreen forests are not only famous for a good number of birds, mammals, and rich vegetation but also famous for butterfly species. Near 200 species has been prevailing here.

##### **Reason for selected the areas for the assessment**

1. Adequate baseline scientific survey on butterfly were not took place of the mentioned survey areas.
2. The survey areas vegetation and unique biodiversity which usually supports rich butterfly diversity
3. Documentation of climatic condition of the areas
4. Record of anthropogenic changes/impact of the survey areas in relation to butterfly taxon
5. Update the status of Junglglory in this area

## **Survey Methodology and Techniques**

The methodology and techniques of the survey is given below where both qualitative and quantitative methods approached based on the taxon seasonal approach.

Following methodologies and techniques will be implemented during the field survey:

1. Data collection will be made through working in forest trail. Each trail will be encompassed likely .5- 1 kilometer.
2. Gentle walking approach will be followed during the survey.
3. Transact count of species with walk through the trail area.
4. Vegetation documentation (digital media)
5. Taxon sample recording (digital media)
6. Geo-location coordinates through GPS (trail wise with spot metering)
7. Specimen Voucher Sample testify (very limited)
8. Meteorological Data Collection each field work (temperature, humidity)
9. Documentation of anthropogenic changes /impact (digital media)

## **Minimizing Gap of the Existing Data**

The survey will be enriched the existing data and at the same time will work also as baseline data for onward study.

## **Expected Outcome of the study**

1. New record might be encountered
2. Information on rediscover (Jungle Glory ) presence status can be identified
3. Population status of Butterflies will be determined
4. Vegetation types and dependency of butterflies will be recorded
5. Anthropogenic study will be made

### Plan of survey areas

The possible route will be Lawachara NP, Adampur and Madhopkunda and the working day will be for 5 days.

### Itinerary

- 31 April – night (Start from Dhaka)
- 01 May-Lawachara NP
- 02 May- Lawachara NP and Adampur
- 03 May- Madhobkunda Eco-Park
- 04 May – Day (Return to Dhaka)

### List of team member

1. Dr. Md Monwar Hossain –Lead Assessor (RAG-Butterfly)
2. Mirza S A Habib—Assessor
3. Md shahtabul Islam –Assessor
4. Farjana Akter—Assessor
5. Sabbir Hossain Khan-Assessor
6. Muhammad Sohel Abedin (Final Year, Hons)

### Tentative Logistic Budget \*

| S.I       | Description                          | Nos | Unit Cost    | Number of days rent | Total Cost (BDT) |
|-----------|--------------------------------------|-----|--------------|---------------------|------------------|
| 1         | Lense rent                           | 3   | 1000         | 3                   | 9000             |
| 2         | Camera body rent                     | 1   | 1500         | 3                   | 4500             |
| 4         | Flash rent                           | 2   | 800          | 3                   | 4800             |
| 5         | Battery for flash                    |     |              |                     | 1200             |
|           |                                      |     | Total Amount |                     | 19500            |
| In Word : | Nineteen thousand five hundreds only |     |              |                     |                  |