Project Progress Report

Assessing distribution, and engaging community for conservation of Dalbergia latifolia Roxb. across one of the last remnants of Charkose forest, eastern Nepal

Project id: Nabin Basnet (44610-1)

Date: June 2025

Major Activities Accomplished:

- 1. Permission Acquisition:
 - i) Local bodies (Itahari & Dharan Sub-Metropolitan Cities): November 2024
 - ii) Social Welfare Council (SWC): January 2025
 - iii) Department of Forest and Soil Conservation (DFoSC), Government of Nepal: February 2025
 - iv) District Forest Office (DFO), Sunsari: February 2025
- 2. Preparation Activities:
 - i) Datasheet, Questionnaire and study area Design: February 2025
 - ii) Preliminary Field Visit & Team Preparation: February 2025
 - Conducted over 7 field days
 - Delineated study boundaries in Charkose Forest adjoining Itahari and Dharan
 - Conducted with involvement of Community Forest User Groups (CFUGs)
- 3. Ecological Data Collection:
 - i) Field Survey Period: February-March 2025 (35 field days)
 - ii) Study Design:
 - Entire study area divided into 500m × 500m plots using ArcGIS
 - A total of 120 complete plots established
 - From these, 360 quadrats (20m × 20m) were laid out (one at the center, two at opposite ends of each plot)
 - iii) Ecological Parameters Recorded:
 - Regeneration status of *Dalbergia latifolia* Roxb.
 - Height and DBH (Diameter at Breast Height) of saplings and trees

- Dominant tree species (top 3 per quadrat)
- Litter and humus thickness
- Canopy cover, ground vegetation cover
- Presence and type of disturbances
- iv) Total Area Surveyed: ~3000 hectares
 - This is approximately 5 times larger than initially proposed study area during the submission of the proposal.

Major Findings

Based on field observations and discussions with CFUGs:

- 1. Patchy Distribution of Dalbergia latifolia Roxb.:
 - The distribution of *Dalbergia latifolia* Roxb. varied significantly across plots.
- 2. High Seedling Density in Specific Plots:
 - Attributed to local conservation efforts by CFUGs and DFO, Sunsari
- 3. Major Disturbance Factors:
 - Livestock grazing significantly hindered regeneration
 - Invasive Alien Plant Species (IAPS) were observed impacting natural regeneration processes

Planned Future Activities

Activity	Timeline
IEC Material Preparation	June 2025
Consultative Workshops, Awareness Campaigns & Hoarding Board Installation	July 2025
Soil Physico-Chemical Analysis	July 2025
Data Analysis	August 2025

Activity Timeline

Manuscript Writing & Submission

Final Report Preparation, Submission & Dissemination

August-September

2025

October 2025

Photo plates:





Sapling of *Dalbergia latifolia* Roxb.



A well-matured *Dalbergia latifolia* Roxb. tree stands gracefully beside the major highway connecting the provincial headquarters to the hilly districts-a remarkable example of development coexisting in harmony with nature.