

Government of Nepal  
Ministry of Agriculture and Livestock Development



**Prime Minister Agriculture Modernization Project (PMAMP)  
(Project Implementation Unit, Kailali)**

**Terms of Reference**

For

**Individual Consultant  
(Agricultural Engineer)**

September 2024

  
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## Prime Minister Agriculture Modernization Project (PMAMP) Terms of Reference for Agricultural Engineer

### 1. Background

Prime Minister Agriculture Modernization Project (PMAMP) is one of the key projects implemented by the Government of Nepal (GoN), Ministry of Agriculture and Livestock Development (MoALD) since fiscal year 2073/74. This project aims at self-reliant economy through modernization, specialization and industrialization of agriculture sector. This project became effective from fiscal year 2073/74 and will continue for ten years. This project is being implemented in 21 specialized agriculture production and industrial centers (Super zones) of all seven provinces, 206 Commercial agriculture production and processing centers (Zones) in different districts of the country. Commercial agriculture production centers (Block) and agriculture production centers (Pockets) components of the projects are being implemented all over the country. This project focuses on 24 value chains of different agriculture commodities under its 4 components. The project aims at implementing 21 super zones, 300 zones, 1500 blocks and 10000 pockets by the end of project.

Broadly the project has four objectives i.e., development of specialized regions for major agriculture commodities, enhance the competitiveness of exportable agriculture commodities through value addition, create employment opportunities through transformation of agribusiness into respectable profitable business, and ensure effective service delivery through functional coordination among stakeholders of agriculture value chain. Currently project is implementing its activities in 77 districts through 48 Project Implementation Unit (PIU) which are coordinated in all seven provinces by respective Province Coordination Unit (PCU)<sup>1</sup> of the project.

### 2. Rationale of the Assignment

PIU is responsible to planning and execution of project activities such as assisting farmers in farm mechanization, providing technical assistance in construction and maintenance of infrastructures and technical support to farming communities. It is also responsible to work as the focal unit of the project at district level. Pocket, block, zone and super zone of prioritized crop and livestock commodities are already established and under implementation in the district. Mainly during the implementation of these programs, immediate need of technical backstopping to concerned stakeholders is necessary. Thus, this assignment is designed to hire the consultancy service of agricultural engineer to support PIU and its stakeholders in promotion of agricultural mechanization, resource conservation technologies and sustainable irrigation systems.

### 3. Objective of the Assignment

The objective of the assignment is to provide engineering support to PIU and also to Project's beneficiaries for the smooth operation of activities related to agriculture mechanization and farm infrastructures. The specific objectives of the assignment are;

- Support and suggest PIU for smooth operation of commodity specific programs,
- Suggest PIU about commodity specific appropriate technology and package of practices,
- Assist the Project in new technology dissemination and adoption in farmer's level.

  
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- Aware project stakeholders regarding farm mechanization, resource conservation and irrigation technologies.
- Support to design, estimation of farm machineries and construction of infrastructures in the farm level.

#### 4. Scope of Work.

The Agricultural Engineer is expected to perform the following duties:

- Lead the planning, scheduling, procurement, and distribution of agri-machinery.
- Market survey of different Agri machinery with their detail specification and price. Develop a roster of Agri machinery suppliers. Recommend agri machinery based on the specification, quality, efficiency as per farmers preference.
- Coordinate with farmers groups, cooperatives, User Committee and vendors for identification, selection, and procurement of necessary agri-machinery and tools
- Designing and implementing the layout of farm fields and structures to optimize productivity and efficiency. This may involve creating plans and maps and working with farmers to implement them.
- Researching and testing new technologies and equipment to improve agricultural processes and increase efficiency. This may involve conducting experiments and trials, and analyzing data to assess the effectiveness of new farm machineries and technologies.
- Advise farmers on the most efficient and sustainable farming practices, such as irrigation techniques, farm mechanization and resource conservation.
- Managing and maintaining agricultural infrastructures, such as irrigation infrastructures, post-harvest facilities and custom hiring centers.
- Conduct research to identify and solve problems related to agricultural production and the environment. This may involve collecting and analyzing data, developing and testing new technologies, and publishing research findings.

#### 5. Expected Outputs

- ✓ Efficient use of water through different irrigation systems.
- ✓ Efficient operation of established Custom hiring centers.
- ✓ Increased agriculture production and productivity through the use of agri-machineries.
- ✓ Reduced cost of production through efficient and modern agricultural tools and machineries.
- ✓ Standardization of agri-machineries based on specifications, quality and efficiency as preferred by farmers.
- ✓ Identification of suitable agricultural tools and machines based on assessment of farmers' need and field experiments.

#### 6. Required Qualification and Experience:

- The consultant must have a minimum of Bachelor's Degree in Agricultural Engineering and should be registered in Nepal Engineering Council.
- Training in relevant fields like agriculture mechanization /irrigation technologies will be an advantage.
- Must have a minimum of 1 (one) year of work experience in agricultural engineering field.
- Experience, knowledge in farm mechanization, irrigation and resource conservation in the field level will be an added advantage.

  
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- Must have acquired experience, knowledge and be familiar with project planning, design, survey and construction of agriculture infrastructures.

#### 7. Report Deliverables

- The agricultural engineer will report to the PIU chief through Agriculture/Planning officer.
- The consultant will deliver a report that contains report covering major issues, suggestions for overcoming the problems, introduced technology and major intervention.
- Progress reports on monthly, quarterly, annual basis.
- A brief completion report that outlines the work undertaken for this assignment

#### 8. Duty Station

PIU, Kailali or its filed offices with frequent travels to its project area

#### 9. Period of Assignment

This assignment will be applicable for the current Fiscal Year 2081/082.

#### 10. Required Position

Agricultural Engineer will be recruited individually. Total no of required position is 1.

#### 11. Procurement Method

As per public procurement regulation, 2064.

#### 12. Salary and Benefits

The monthly salary for the post of agricultural engineer will be as per Nepal Government's starting salary scale for gazetted class III officer. Travel allowance and other expenses will be provided on the basis of field visits requirement and approved budget.

  
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