



TERMS OF REFERENCE (TOR)

Agricultural Engineer

National Agriculture Modernization Program (NAMP), Rupandehi

1. Position Title

Agricultural Engineer

2. Duty Station

Program Implementation Unit (PIU), National Agriculture Modernization Program (PMAMP),
Rupandehi & West of Bardaghat Susta

3. Reports To

Project Chief / Senior Agriculture Officer / Office Head

4. Background

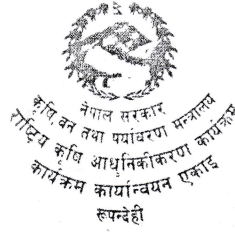
The National Agriculture Modernization Program (NAMP) is a flagship programme of the Government of Nepal under the Ministry of Agriculture, Forest & Environment. The programme aims to transform Nepalese agriculture into a modern, commercial, competitive and sustainable sector through commodity-based agricultural development, mechanization, value chain promotion, infrastructure development, climate-smart agriculture and private sector engagement. The Agricultural Engineer plays a key role in planning, designing, implementing and monitoring engineering interventions under the programme in accordance with the Project Implementation Manual (PIM), Public Procurement Act and Regulations, and other prevailing government rules.

5. Objectives

The Agricultural Engineer shall provide technical leadership in agricultural engineering activities including:

- Agricultural mechanization
- Irrigation engineering
- Agricultural infrastructure
- Construction supervision
- Quality assurance
- Technical specifications
- Cost estimation
- Monitoring and reporting


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6. Scope of Work

The Agricultural Engineer shall perform, but not be limited to, the following duties:

A. Planning and Design

- Prepare annual engineering work plans.
- Conduct technical feasibility studies.
- Carry out site surveys and engineering investigations.
- Prepare engineering drawings using AutoCAD.
- Prepare BOQs and cost estimates.
- Prepare technical specifications.

B. Agricultural Infrastructure Development

Provide technical support for construction of:

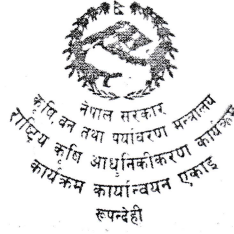
- Irrigation systems
- Lift irrigation
- Deep and shallow tube wells
- Solar irrigation systems
- Collection centers
- Pack houses
- Cold Rooms
- Ripening Chambers
- Market sheds
- Drying yards
- Plastic houses
- Greenhouses
- Livestock sheds
- Fish ponds
- Farm roads
- Drainage systems
- Water harvesting structures

C. Agricultural Mechanization

Support mechanization programmes through:

- Machinery selection
- Technical specification preparation & Cost estimation
- Machinery inspection
- Demonstration activities


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- User training

Machinery may include:

- Tractors
- Power tillers
- Rotavators
- Seed drills
- Rice transplanters
- Combine harvesters
- Potato planters
- Reapers
- Mini tillers
- Multi-crop threshers
- Post-harvest equipment & Others

D. Procurement Support

Provide engineering inputs for procurement by:

- Preparing technical specifications
- Working with SBD, SQ
- Preparing engineer's estimates
- Assisting evaluation committees
- Technical evaluation of bids
- Inspection of supplied equipment
- Acceptance testing
- Preparing completion certificates

Ensure compliance with:

- Public Procurement Act
- Public Procurement Regulations
- PIM
- Government financial procedures

E. Construction Supervision

- Supervise civil works.
- Ensure quality control.
- Verify construction materials.
- Approve layout before construction.
- Monitor contractor performance.
- Verify work measurements.


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- Maintain measurement books.
- Certify completed works.
- Recommend payment based on progress.

F. Quality Assurance

Ensure quality through:

- Workmanship inspection
- Stage-wise monitoring
- Compliance with drawings
- Compliance with specifications
- Corrective recommendations

G. Monitoring and Evaluation

- Conduct regular field inspections.
- Monitor physical progress.
- Monitor financial progress.
- Verify grant-supported infrastructures.
- Prepare monitoring reports.
- Maintain engineering database.

H. Coordination

Coordinate with:

- Farmers' groups
- Cooperatives
- Private sector
- Contractors
- Consultants
- Machinery suppliers
- NARC
- DoA
- PMU


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I. Capacity Building

Conduct:

- Farmer trainings
- Machinery operation training
- Irrigation management training
- Infrastructure management training

J. Reporting

Prepare:

- Annual reports
- Progress reports
- Completion reports
- Engineering documentation

K. Deliverables

The Agricultural Engineer shall produce:

- Site investigation reports
- Technical drawings
- BOQs
- Cost estimates
- Technical specifications
- Bid documents (technical portion)
- Inspection reports
- Construction supervision reports
- Machinery inspection reports
- Completion reports

K. Required Qualifications

Education

- Bachelor's Degree in Agricultural Engineering from a recognized university.
- Must be a Nepal Engineering Council Registered Agricultural Engineer.


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Experience

Minimum:

- 3 years of experience in agricultural engineering or infrastructure development (Mainly, Irrigation, Farm Mechanization, Post Harvest Engineering)

Experience in:

- Agricultural mechanization
- Irrigation engineering
- Construction supervision
- Procurement
- Government-funded agricultural projects

9. Required Skills

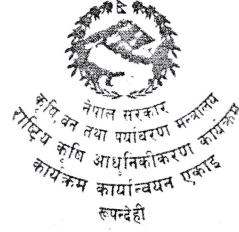
- AutoCAD/Sketchup
- MS Office
- BOQ preparation
- Cost estimation
- Construction supervision
- Procurement documentation
- Engineering drawing interpretation
- Report writing
- Communication skills
- Coordination and teamwork

10. Performance Indicators (KPIs)

Performance shall be evaluated based on:

- Timely completion of engineering designs.
- Quality of BOQs and estimates.
- Timely implementation of infrastructure.
- Compliance with technical specifications.
- Quality of construction supervision.
- Procurement support provided.
- Physical and financial progress.
- Timely submission of reports.
- Stakeholder satisfaction.
- Compliance with PIM and procurement regulations.


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11. Duration

One fiscal year, renewable based on satisfactory performance, programme requirements and budget availability.

12. Code of Conduct

The Agricultural Engineer shall:

- Maintain professional integrity.
- Avoid conflicts of interest.
- Ensure transparency.
- Maintain confidentiality.
- Follow Government of Nepal rules.
- Comply with PMAMP policies, the PIM, and Public Procurement legislation.
- Promote environmental sustainability, occupational safety and social inclusion in programme implementation.


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