

# Nepal Project: Fertigation



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# Nepal



- ❧ Small land locked country
- ❧ Between China and India
- ❧ Population 29,033,914
- ❧ Religions:
  - ❧ 81.3% Hindu
  - ❧ 9% Buddhist
  - ❧ 4.4% Muslim



# Nepal continued



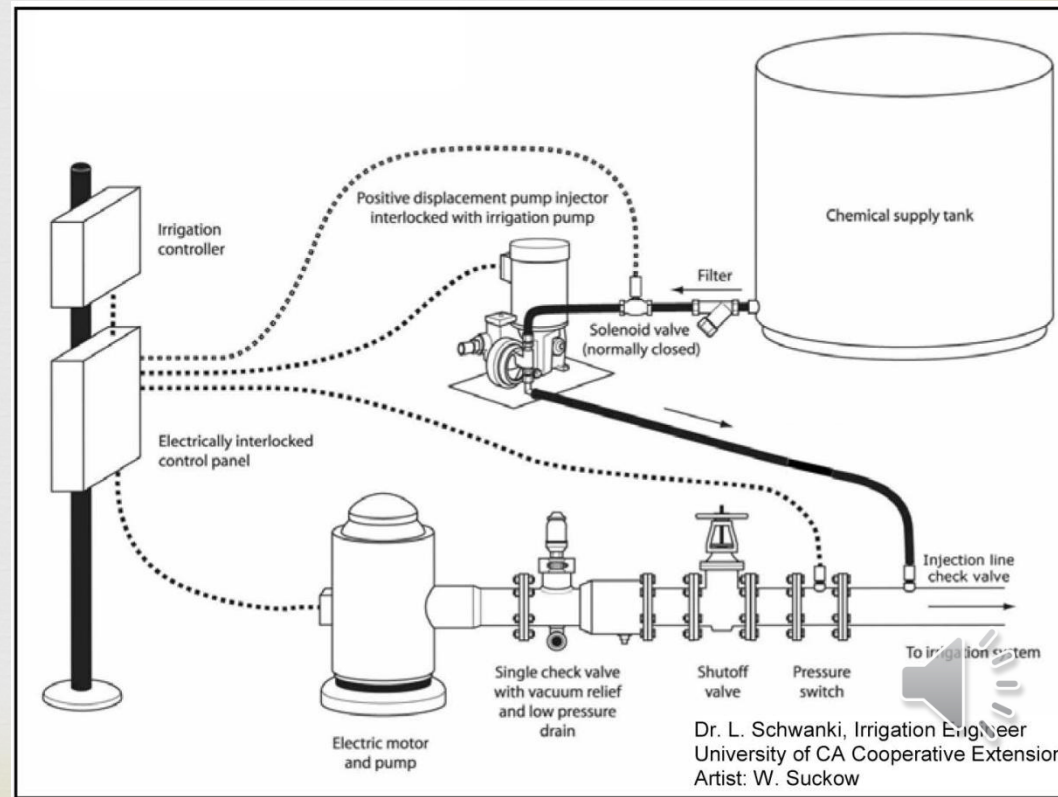
- ∞ Total land area 147,181 km<sup>2</sup>
- ∞ Agricultural land 28.8%
- ∞ Arable land use 15.1% (22,224 km<sup>2</sup>)
- ∞ Irrigated land 13,320 km<sup>2</sup> (59.9% of agricultural land)



# Fertigation



- ☞ Fertigation is fertilizing through irrigating
- ☞ Fertilizer is regulated better
- ☞ Less fertilizer runoff
- ☞ Less water waste

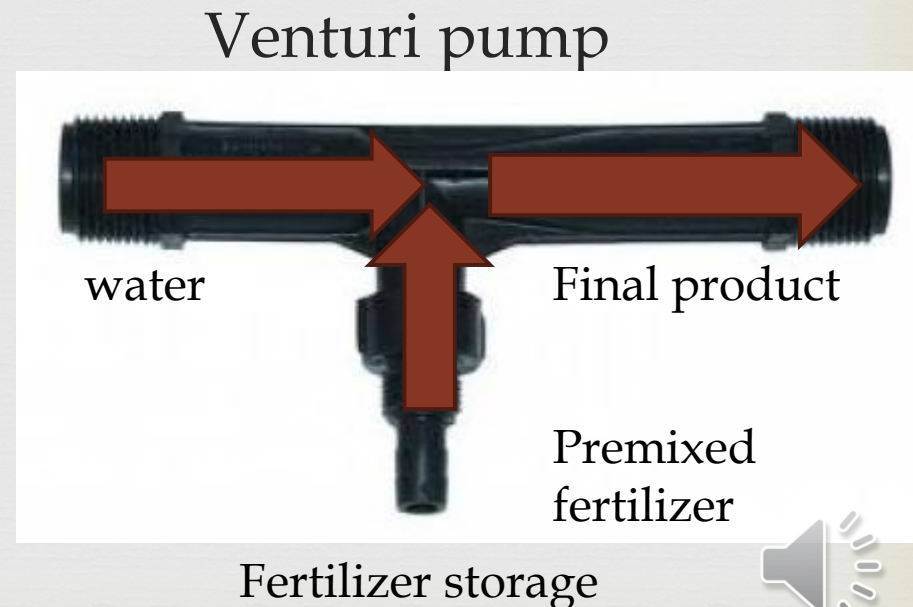




# Components to a Fertigation System

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1. Water pump
2. Venturi pump and fertilizer storage
3. Filter
4. Pipe to crops
5. Dripper line



# Canadian Business



- ❧ Vanden Bussche Irrigation
- ❧ Based in Delhi Ontario
- ❧ Multiple locations
  - ❧ Milton
  - ❧ Scarborough
  - ❧ Concord
  - ❧ Ottawa
- ❧ Full setup
  - ❧ \$9850



# Competitors and Conclusion

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## ❧ Canadian

- ❧ Irrigation Direct

- ❧ Smaller operation

- ❧ Gardening

## ❧ International

- ❧ India

- ❧ Sashanka Agro. Tech

- ❧ Similar size operation

- ❧ Much closer to nepal

## ❧ Nepal should use fertigation systems

- ❧ The cost of transportation may be too expensive



# References



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