



# WELCOME



**Ministry of Federal Affairs' and Local Development  
Department of Local Infrastructures Development and Agricultural Roads  
Rural Village Water Resources Management Project Phase**

**The Gender Friendly & Inclusive Community  
Participation to promote Equity for the successful  
micro hydro MUS implementation & post-  
implementation (Practical experiences from  
RVWRMP supported micro-hydro MUS Schemes)**

**Er. Roshan Bikram Shah, RVWRMP  
International MUS Workshop  
Kathmandu, 25-26 Feb 2016**

# Outline of the presentation

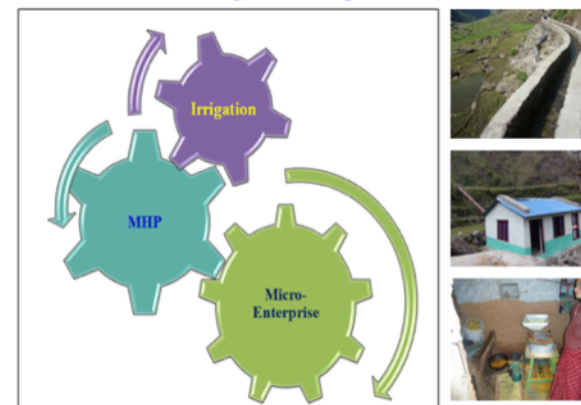
- Introduction of MH-MUS
- Summary of the MH-MUS Project
- Gender and Inclusion Highlights of MH-MUS Project
- MH-MUS Output
- MH-MUS Outcome
- MH-MUS Impacts
- Challenge
- Discussion & Conclusion
- Recommendations

# Introduction of MH-MUS

- The water can be used for electricity generation as well as water supply, irrigation, improved water mill etc.
- The same canal is used as power canal to generate electricity as well as irrigation canal for irrigation of agricultural land
- The tailrace & spillway canal can be used as irrigation canal



**Micro Hydro & Irrigation (MH MUS) with  
Micro-Enterprise Synchronization**

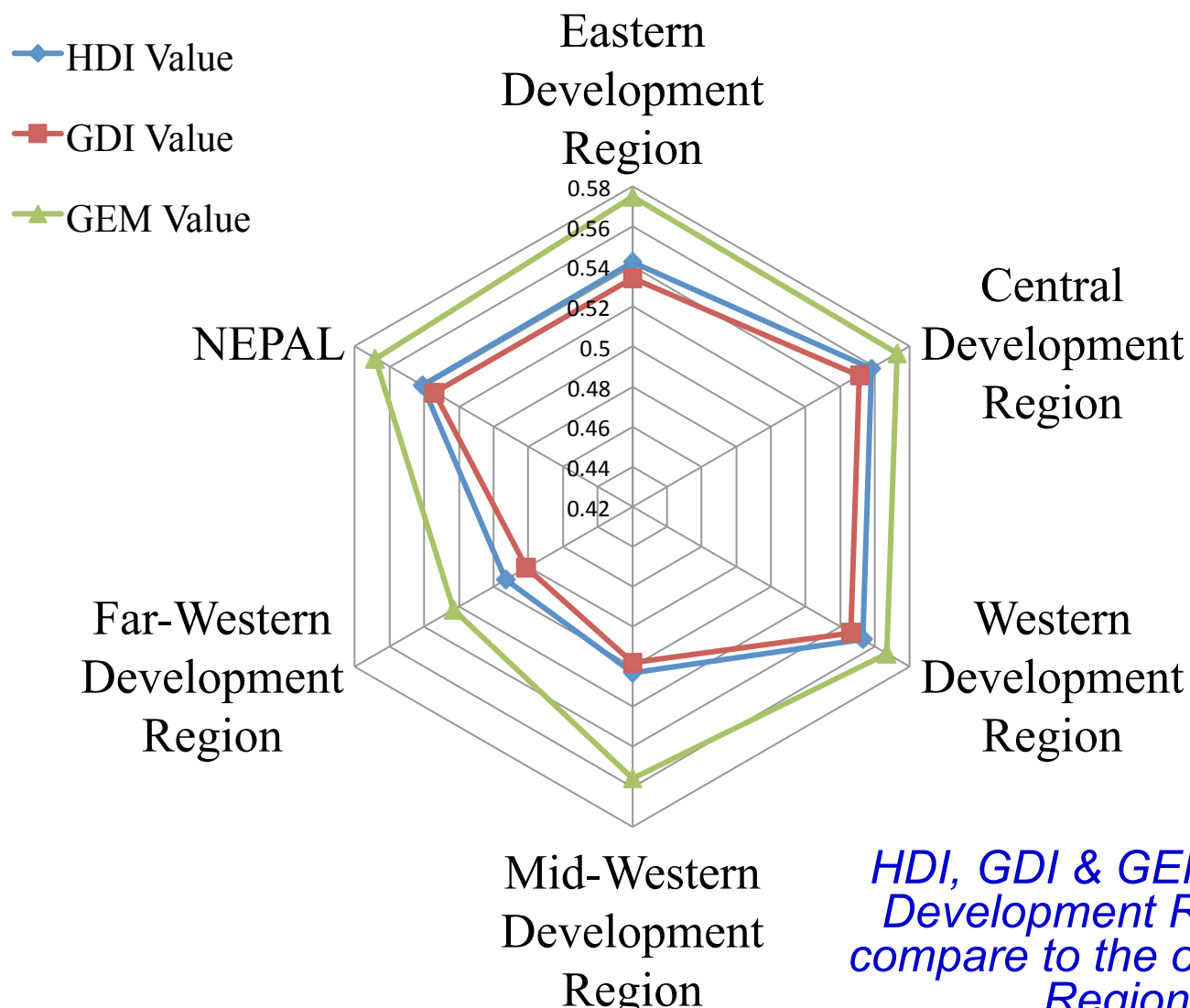


# Summary of the MH-MUS Project

(Implemented by RVWRMP & AEPC)

- Total Number of MH MUS = 7
- Total benefited HHs = 3051 HHs
- Total benefited Dalit HHs (Electricity)= 551 HHs
- Total Number of Population Served = 17927
- Total Power Output = 259.5 kW
- Total Irrigated Land = 164.4 Hector

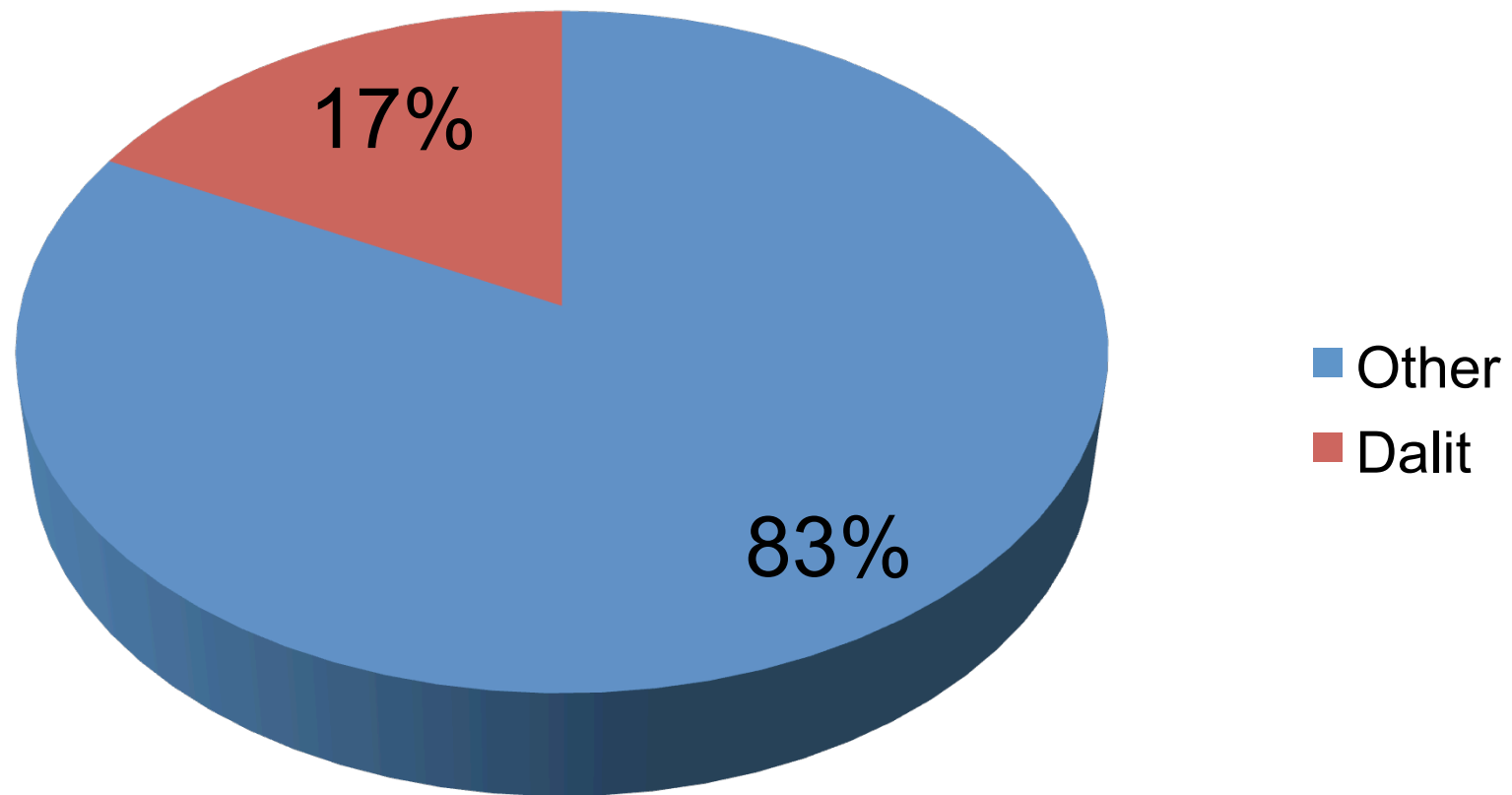
# HDI, GDI & GEM of 5 Development Region



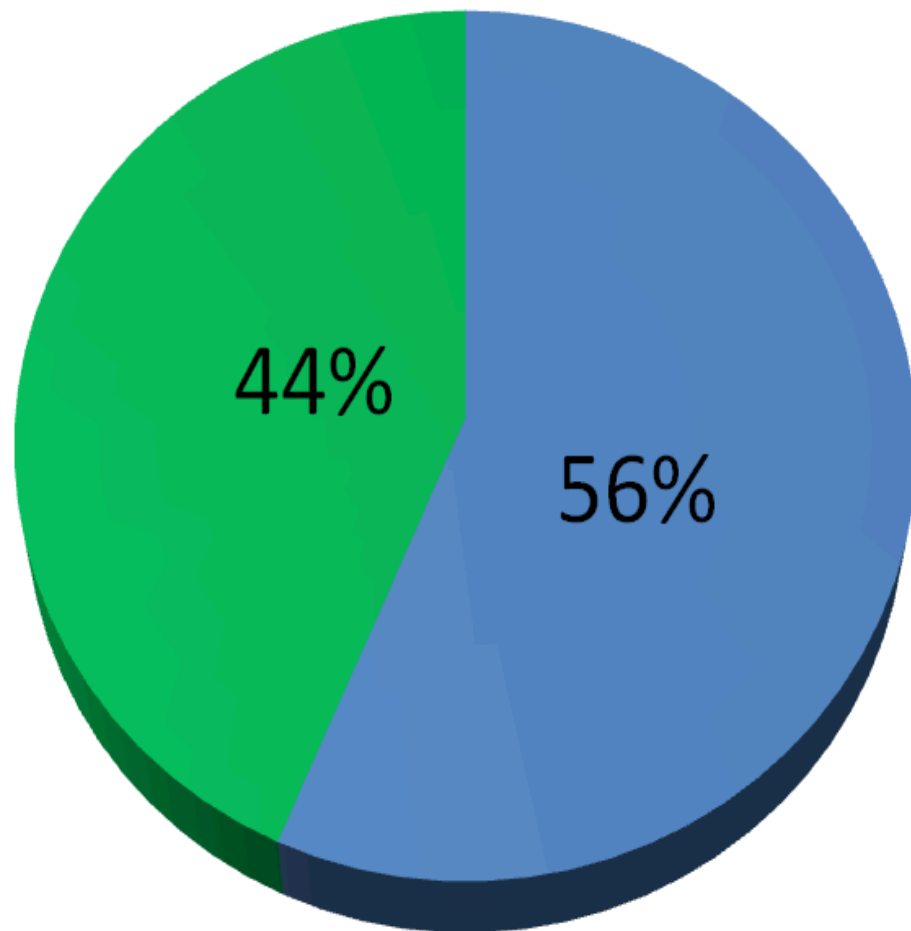
*HDI, GDI & GEM of Far-Western Development Region is poor as compare to the other Development Region & Nepal*

# HHs Composition by Ethnicity

(Baseline 2011)



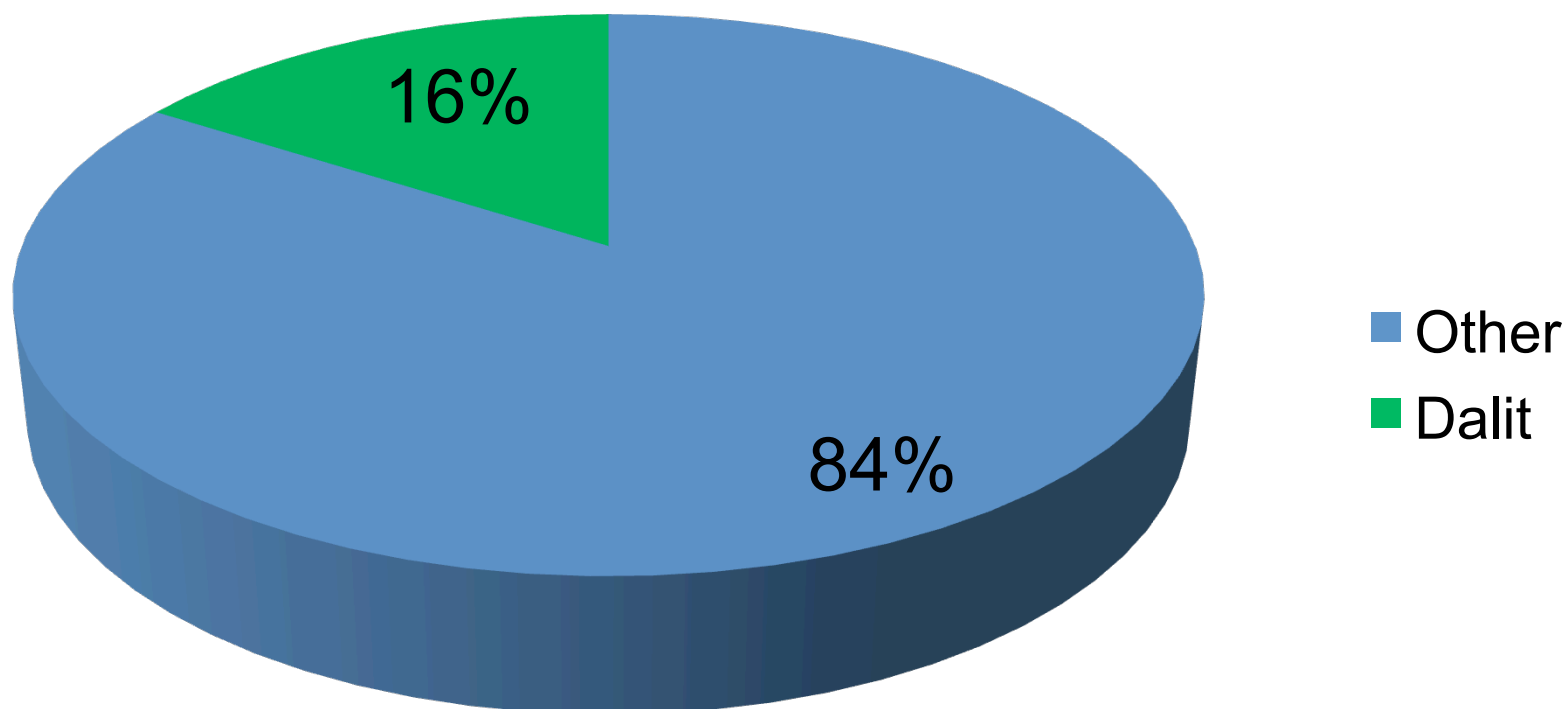
# Gender Composition on UC of MH-MUS



■ Male  
■ Female



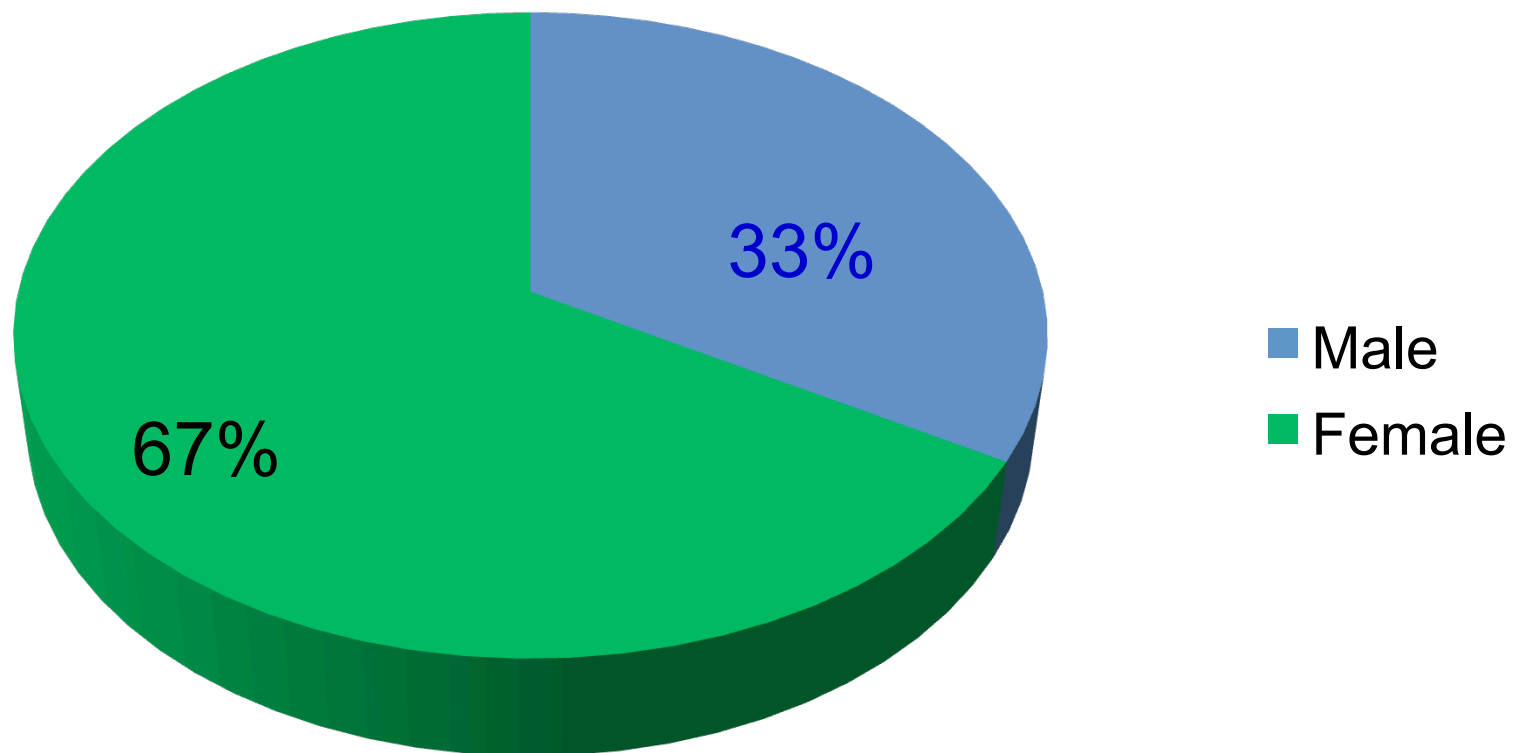
## Ethnic Composition on UC of MH-MUS





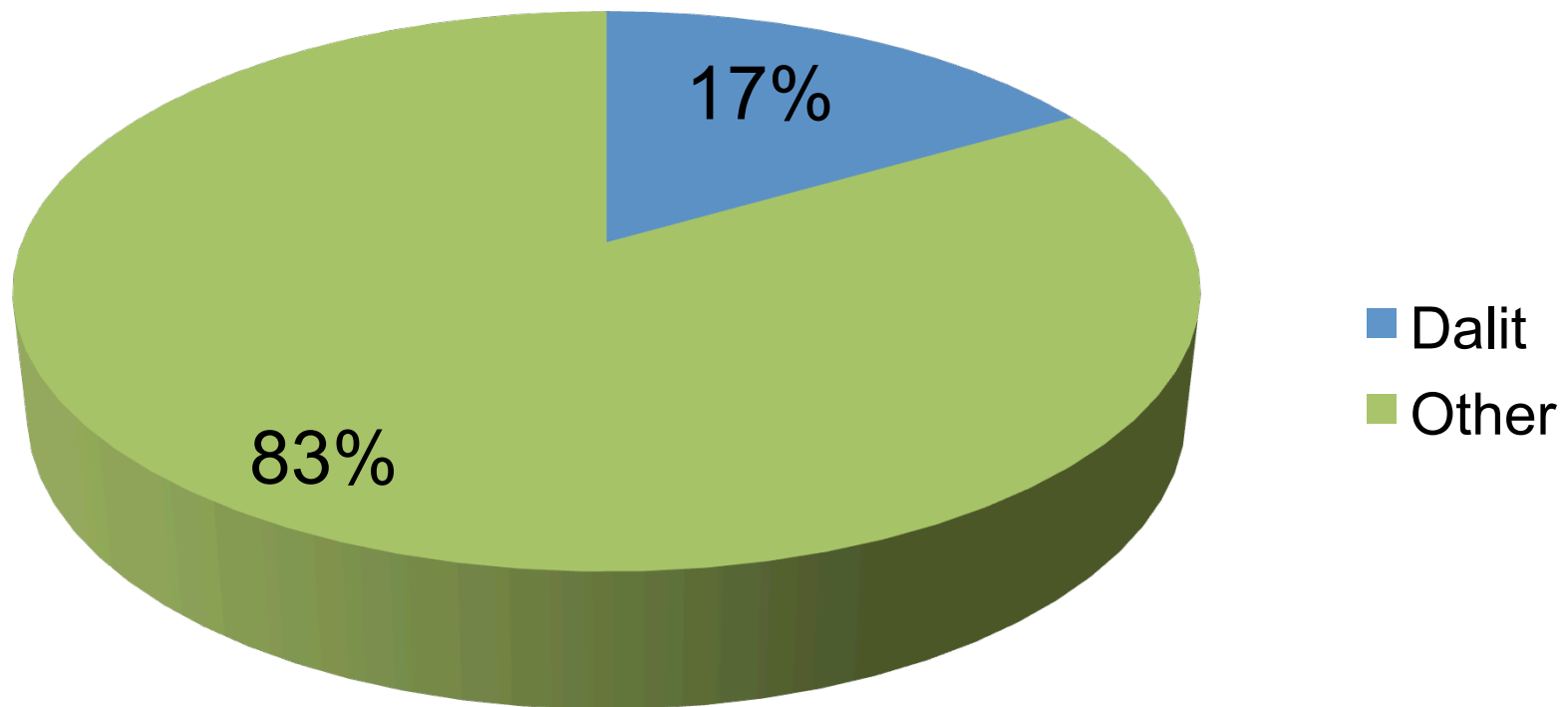
# Gender Composition on Energy based Micro Enterprise

(Case Study of Moubherigad MH MUS, Koiralakot, Bajhang)



# Ethnic Composition on Energy based Micro Enterprise

(Case Study of Moubherigad MH MUS, Koiralakot, Bajhang)



# Engendering & Inclusion during Implementation





# Engendering & Inclusion in Micro Enterprise of MUS



# MH MUS Output

- 259.5 kW Power Generation with 164.4 Hectar of irrigation of land
- 551 HHs (100 %) Dalit Households are electrified & 30.81 % benefited from irrigation facilities as well
- Increased female participation (44% female present in the UC)



# MH MUS Outcome

- Women has started the micro-enterprises and has contributed financially at home; women has empowered economically
- Dalit has utilized energy for modernizing their traditional occupation (tailoring, metal works etc)
- Increased revenue due to increased energy utilization





# MH MUS Impacts

- Positive Socio-Economic impact in Dalit and Women contributing in HDI, GDI & GEM
- Increased Gender and Inclusive participation contributing to Equity & Equality
- Contributed in Millennium Development Goal & will contribute Sustainable Development Goal (SDG)



# Challenge

- Lack of Entrepreneurship in Male & difficult for sustaining the micro Enterprise
- Difficult to run both micro hydro & irrigation during dry season
- Remoteness from the road head for the marketing of the products

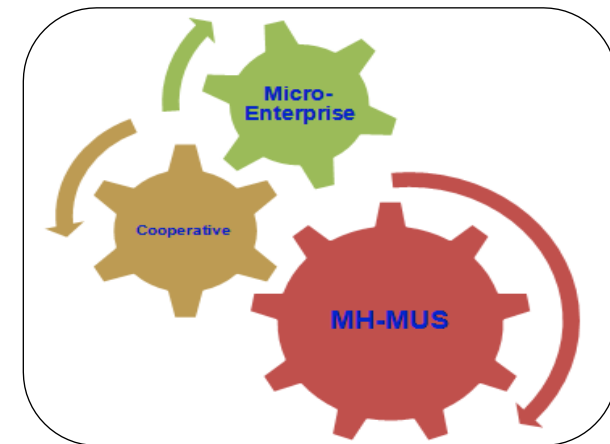
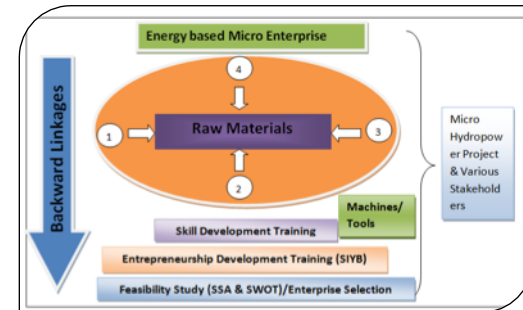


# Discussion and Conclusion

- MUS including Micro Hydro improves inclusiveness and gender friendliness of MUS
- Tariff by energy consumption to be introduced
- MUS with Micro Hydro need to be connected to a cooperative

# Recommendations

- Promote meaningful participation of Female, Dalit & Disadvantage Group (DAG) in MUS
- MH MUS need to be established at Policy Level in Nepal
- Promotion of MH MUS together with End-use activity with effective Value Chain and Micro Finance Mechanism (Cooperative)





**THANK YOU**



**RVWRMP II**  
Nepal-Finland Cooperation

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