

Training program on Design of Pumping Station for Water Supply Systems
National Water Supply & Sanitation Training Center - Nagarkot
(Program Schedule Kartik 22 - 26, 2077)

Session DAY		I		II		III		IV
		7:30 - 9:00		10.30 - 12:00		16:00 - 17:30		17:30- 19:00
1 Saturday Kartik 22	Opening, Introduction, Objectives briefing	Overview on Design and Construction of Pumped Water supply system KB Karki	TEA	Design of pumping station: Principles and design steps KB Karki	LUNCH	Design Exercise: Basic calculations for pump sizing (using sump pump) KL Shakya	FRESH	Aquifer and Groundwater hydrology KB Karki
2 Sunday Kartik 23	Review of previous day	Design concepts, construction and development of bore holes KB Karki		Intro to Electricity, Power and Energy, KB Karki		Electrical hazards and safety measures in pumping stations KB Karki		Motor starters/Control Panels, their parts and functions DS Nepali
3 Monday Kartik 24	Review of previous day	Design Exercise: Design of Deep tube well KB Karki		Types of sources of power supply for pumping station KB Karki		Design Exercise: Selection of Transformer, Motor control panels and Power supply accessories etc. KB Karki		Technical Specifications of Pump-Motor set and accessories DS Nepali
4 Tuesday Kartik 25	Review of previous day	Solar pumping system design steps: -PV sizing and calculations for different components KB Karki		Exercise on Solar pumping system design: KB Karki		Design Exercise: Selection of appropriate Pump set KB Karki		Use of Autotransformers, VFDs and Booster pumps in pipeline networks instead of elevated tanks LR Tamang
5 Wensday Kartik 26	Review of previous day	Lowering and lifting up of bore-hole pump KB Karki		Some operational problems and remedies. KB Karki		Estimates for borewells: fittings, accessories, Electromechanical & Electrification works KL Shakya		Lightening arrester and Earthing of Electrical System for Pumpstation safety LR Tamang

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