

**Analysis & Redesigning of Watermills for  
Sustainable Development of Rural Areas of Uttarakhand**

**LIST OF ABBREVIATIONS**

MW	Mega Watt (Unit)
Mus	Million Units (Unit)
AT & C	Aggregate Technical & Commercial Loss
T & D	Technical & Distribution loss
Lac	Lakhs (Unit)
UREDA	Uttarakhand Renewable Energy Development Authority
NGO	Non Profit Government Organizations
Km	Kilo meters (Unit)
Cumec	Cubic Meter per Second (Unit)
Mtr	Meter (Unit)
AHEC	Alternate Hydro Energy centre
IIT	Indian Institute of Technology
Lps	Litres per Second (Unit)
Kw	Kilo Watt (Unit)
UN	United Nation
HIV	Human Infected Virus
Kgoe	Kg of oil Equivalent (Unit)
IEP	Integrated Energy Policy
GDP	Gross Domestic product
CEA	Central Electricity Authority
UPCL	Uttarakhand Power Corporation Ltd
RGGVY	Rajiv Gandhi Gramin Vikas Yojana
MIS	Management Information system
GOU	Government of Uttarakhand
GOI	Government of India
CPSU	Central Public Sector Unit
UJVNL	Uttarakhand Jal Vidyut Nigam Limited
SHPP	Small Hydro Power Plant

## **Analysis & Redesigning of Watermills for Sustainable Development of Rural Areas of Uttarakhand**

KV	Kilo Volt (Unit)
PTCUL	Power Transmission Corporation of Uttaranchal Ltd
UED	Uttarakhand Energy Department
UERC	Uttarakhand Energy Regulatory commission
ADB	Asian Development Bank
HPP	Hydro Power Plant
FY	Financial Year
ERC	Electricity Regulatory Commission
E & Y	Earnst & Young
SHP	Small Hydro Plant
MOU	Memorandum of Understanding
DPR	Detailed Project report
NEDA	North Energy Development Authority
CFL	Compact Florescent Lamp
CO2	Carbon dioxide
KWh	Kilo watt hours (Unit)
CDM	Clean Development Mechanism
ELC	
RPM	Revolution per minute (Unit)
Nm	Newton meter (Unit)
PVC	Poly Vinyl Chloride
PE	Poly Ethylene
UV	Ultra Violet
ASTM	American Standard for Testing & Measurement
MPa	Mega Pascal (Unit)
CRS	Corrosion Resistant Steel
cm	Centi meter (Unit)
CAL	
RMS	Root Mean Square (Unit)
MNRE	Ministry of Non Conventional & Renewable Energy

## **Analysis & Redesigning of Watermills for Sustainable Development of Rural Areas of Uttarakhand**

LED	Light Emitting Diode
Hrs	Hours (Unit)
GI	Galvanized Iron
RCC	Reinforced Cement Concrete
PCC	Portland Cement Concrete