

DESIGN AND DEVELOPMENT OF SINGLE-AXIS
SOLAR TRACKING SYSTEM AND WATER
LEVEL CONTROL FOR APPLICATION OF LINE
FOCUS CONCENTRATOR FOR SOLAR
DESALINATION PROCESS

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AND WATER LEVEL CONTROL FOR APPLICATION OF LINE FOCUS
CONCENTRATOR FOR SOLAR DESALINATION PROCESS

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LIST OF SYMBOLS

m	Meter
s	Second
h	Hour
m	Minute
ε	Angle of earth's axis of rotation
θ	Angles of Incidence
Φ	Solar Altitude
α	Solar Azimuth
Θ_z	Angle of Zenith
W	Watt
V	Voltage
A	Amphere
g	Gram
mm	Milimeter
KB	Kilobyte
KHz	Kilohertz
L	Liter
%	Percentages
$^{\circ}\text{C}$	Degree Celsius
W/m^2	Solar Irradiance

LIST OF ABBREVIATION

DNI	Direct Normal Irradiance
HSAT	Horizontal Single Axis Trackers
LCD	Liquid Crystal Display
LDR	Light Dependent Resistor
MD	Membrane Distillation
PSAT	Polar Aligned Single Axis Trackers
RPM	Rotation Per Minute
RO	Reverse Osmosis
TSAT	Tilted Single Axis Trackers
UN	United Nations
VC	Vapor Compression
VSAT	Vertical Single Axis Trackers